

# Drug Delivery<sup>®</sup> Technology

November/December 2009 Vol 9 No 10

[www.drugdeliverytech.com](http://www.drugdeliverytech.com)

## RESOURCE DIRECTORY & COMPANY PROFILES

The science & business of drug development in specialty pharma, biotechnology, and drug delivery



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What's your challenge?

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# TRANSDERMAL TRANSCENDENCE

A higher level of performance

Delivers new possibilities



**AVEVA**  
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A Nitto Denko Company

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As one of the world's largest manufacturers of transdermal patches offering a full range of research, development and manufacturing capabilities, Aveva transcends traditional limitations of patch technology and business partnerships to achieve new levels of product and corporate performance.

- > Customizing solutions to the unique characteristics of each drug
- > Masterfully balancing the patch properties of adhesion reliability and gentleness that lead to an enhanced patient experience.
- > Managing a higher drug concentration in a smaller patch

A flexible, customer-oriented business philosophy that adds value to projects and exceeds customer expectations.

To license a product or to see how we can add value to your project, call Robert J. Bloder, Vice President Business Development, at **954.624.1374** or visit [www.AvevaDDS.com](http://www.AvevaDDS.com)



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Improving Lives

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- 3. Patent protected**
- 4. Easily scalable**  
and requiring only conventional manufacturing equipment
- 5. Cost effective**  
as the cost of goods is comparable to conventional tablets

Learn more about LCP and MeltDose®. Visit our web site: [www.meltdose.com](http://www.meltdose.com) or contact us at: [meltdose@lcpharma.com](mailto:meltdose@lcpharma.com)

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VP, Formulation Sciences & Drug Delivery

"I joined Azopharma because of the people and the opportunity to assist Sponsors in the development of drug products. What makes Azopharma a step above the competition is our persistence to client needs."

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XanCDT Azopharma AVIVO

John

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Discover what's in PharmaForm's toolbox, call (512) 834-0449 x264 or visit [www.PharmaForm.com](http://www.PharmaForm.com).



Dosage Form Development  
GMP Manufacturing



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BD	Nusil Technologies
Catalent Pharma Solutions	PharmaCircle
CyDex Pharmaceuticals, Inc.	PharmaForm
DPT	PPD
Eurand	Unilife
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- Excipients, Polymers, Lipids, Liposomes
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Visit our online Global Resource Directory at  
[www.drugdeliverytech.com](http://www.drugdeliverytech.com)

# BD Hypak SCF™

Glass Prefillable Syringe System



## Help your product reach its full potential

Only BD offers the range and depth of expertise and solutions to guide your drug from early phase development through launch. That's why hundreds of pharmaceutical and biotech manufacturers have chosen BD Hypak SCF Glass Prefillable Syringe Systems for their drugs.

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[www.bd.com/pharmaceuticals](http://www.bd.com/pharmaceuticals)

# COMPANY PROFILE

*Enabling your success*

## **3M** Drug Delivery Systems

3M DRUG DELIVERY SYSTEMS  
3M Center, Bldg. 275-3E-10  
St. Paul, Minnesota 55144-1000  
T: (800) 643-8086 • F: (651) 737-5265  
Website: [www.3M.com/DDS](http://www.3M.com/DDS)



*3M Drug Delivery Systems* is a global leader and innovator for inhalation and transdermal drug delivery. Between drug discovery and commercialization, 3M Drug Delivery Systems offers...

- Innovative and proven technology
- Product development services
- Global regulatory expertise
- Commercial manufacturing
- Broad range of customizable system components

Our technology, expertise and experience can provide pharmaceutical and biotech companies with:

- Differentiated products
- Speed to market
- Increased probability of technical and commercial success

3M's proven track record includes development of the first metered-dose inhaler (MDI), development of the first HFA MDI, and the development of the first stand-alone 7-day transdermal system. Products manufactured by 3M Drug Delivery Systems are currently sold in more than 60 countries on six continents.

We combine the agility of a leading drug delivery company with the resources of a major, multinational corporation. 3M provides expertise in product development, regulatory and manufacturing to enable you to get to market sooner.

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transdermal delivery.

new



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# COMPANY PROFILE



**AVEVA DRUG DELIVERY SYSTEMS, INC.**  
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Website: [www.avevadds.com](http://www.avevadds.com)  
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*Aveva Drug Delivery Systems, a Nitto Denko company with revenues in excess of \$7 billion, is one of the world's largest manufacturers of, and a pioneer in, transdermal drug delivery systems. Nitto Denko has a 40-year history of providing pharmaceutical partners with fully integrated, controlled-release transdermal products that fulfill unmet market needs or are high-quality, low-cost brand equivalents. Leveraging this experience, Aveva offers a full range of research, development, and manufacturing capabilities using a number of sophisticated technologies to produce proprietary and generic transdermal drug delivery systems.*

- Aveva offers:**
- Global licenses for Aveva's approved products and development pipeline
  - Transdermal candidate assessments of APIs in as little as 4 weeks
  - Extensive expertise in polymer synthesis and adhesive formulation technologies
  - A full range of research, development, and manufacturing capabilities
  - Creative solutions & sophisticated technologies to overcome formulation challenges

## **Proprietary Gel Matrix Adhesive Technology**

Aveva DDS and Nitto Denko have produced the first and only marketed transdermal patch using a revolutionary Gel Matrix adhesive system for an unequaled balance of adhesion reliability and gentleness. Because the Gel Matrix adhesive minimizes the disruption of the stratum corneum (skin) during removal, these patches can be removed and reapplied with minimal skin irritation, resulting in a desirable patient experience. This technology also contributes to increased patient compliance and enhanced persistency, which are critical for patients with chronic conditions.



# TRANSDERMAL TRANSCENDENCE

A higher level of performance

Delivers new possibilities

new

**AVEVA**  
DRUG DELIVERY SYSTEMS  
A Nitto Denko Company

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- ▶ Managing a higher drug concentration in a smaller patch

A flexible, customer-oriented business philosophy that adds value to projects and exceeds customer expectations.

To license a product or to see how we can add value to your project, call Robert J. Bloder, Vice President Business Development, at **954.624.1374** or visit [www.AvevaDDS.com](http://www.AvevaDDS.com)



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# COMPANY PROFILE



**Azopharma**  
Product Development Group

**AZOPHARMA PRODUCT DEVELOPMENT GROUP**

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Hollywood, FL 33020

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E: [development@azopharma.com](mailto:development@azopharma.com)

Website: [www.azopharma.com](http://www.azopharma.com)

## Company Description

Azopharma Product Development Group, *The Total Product Development Company*<sup>®</sup>, provides full product development and stand-alone services for the pharmaceutical, biotech, and medical device industries. We provide clients with comprehensive product development from discovery through commercialization. Whether it's a stand-alone service or a full development program, Azopharma has the solution to fit your needs!

## Our Group of Companies include:

- **Azopharma Contract Pharmaceutical Services**<sup>®</sup> - Integrated product development, including synthesis, analysis, formulation, and CTM manufacturing for all dosage forms.
- **AniClin Preclinical Services**<sup>™</sup> - Preclinical services in support of early product development.
- **AvivoClin Clinical Services**<sup>®</sup> - Human clinical pharmacology and monitoring services for Phase I-III clinical trials.

## Services & Capabilities

Our capabilities include:

- Full NCE Development
- Full NDA Development
- Full IND Development
- Full ANDA Development
- Full Medical Device Development

Azopharma also offers bundled services from key sections of the drug development process that maximize communication and minimize downtime.

## Preclinical Bundle

- Supply of Non-GMP API
- PK/PD Studies
- Toxicology Programs
- ADME Studies
- Radiolabeled Studies
- Animal Model Development
- Bioanalytical Services

## CMC Bundle

- Analytical R&D
- Preformulation Services
- CTM Manufacturing
- Formulation Development
- Drug Delivery Technology
- Stability Programs
- Extractables & Leachables

## Clinical Bundle

- Formulation Development
- CTM Manufacturing
- First-In-Human Studies
- Phase I-III Studies
- Microdosing
- Bioanalytical Services
- Multi-Site Management

## Facilities

Our facilities are FDA registered, DEA approved, and client audited on a regular basis. The sites are fully cGMP compliant and have an excellent inspection record. In product development, it comes down to the right people, their commitment, and application of experience. Partnering with Azopharma provides customers with the confidence of assured success. We welcome visits to our South Florida facilities as well as our other sites to conduct audits or meet with our pharmaceutical scientists to outline a study that meets your specific needs. Contact one of our scientists at [development@azopharma.com](mailto:development@azopharma.com) or (954) 433-7480.



# Azopharma<sup>®</sup>

Product Development Group

## TAKE YOUR MOLECULE FROM DISCOVERY THROUGH COMMERCIALIZATION WITH ONE COMPANY!

Azopharma Product Development Group offers bundled services from key sections of the drug development process including the Preclinical, CMC and Clinical phases that maximize communication and minimize downtime. We also have stand-alone specialty services that support your own internal development activities. Whether it's a stand-alone service or comprehensive program, your projects will be managed by our integrated program management team ensuring they are delivered on time and as promised!



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# COMPANY PROFILE



## BD MEDICAL - PHARMACEUTICAL SYSTEMS

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Franklin Lakes, NJ 07417  
T: (800) 225-3310 F: (201) 847-4847  
E: BDPS\_marketing@bd.com  
Website: [www.bd.com/pharmaceuticals](http://www.bd.com/pharmaceuticals)



*BD Medical* - Pharmaceutical Systems provides high-quality, customized, clinically proven drug delivery systems and technologies to help pharmaceutical and biotechnology customers' injectable drugs reach their full potential.

BD has over 100 years of experience in manufacturing and processing technology for parenteral drug delivery systems and has developed an in-depth understanding of the pharmaceutical industry's requirements. BD has leveraged this experience when developing advanced drug delivery systems that span from small-scale clinical through large-scale commercial programs.

BD offers a range of products, including glass and plastic prefilled syringes and a variety of systems for the self-administration of injectables.

With a broad range of innovative systems and services, BD Medical - Pharmaceutical Systems provides pharmaceutical companies with support and resources to help them achieve their goals.

BD is committed to building partnerships to develop product solutions that meet evolving customer needs by leveraging innovative technologies, extensive global manufacturing, and advanced technical and scientific expertise.

***Only BD offers the range and depth of expertise and packaging solutions to guide your drug from early phase development through product launch and beyond.***

# BD Medical—Pharmaceutical Systems

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Only BD offers the range and depth of expertise and customizable packaging solutions to guide your drug from early phase development through product launch.

BD's approach can also give you an edge. Our knowledge of drug development trends and our progressive initiatives for advancing drug delivery means that you'll have a strategic advantage—both today and tomorrow.

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Call 800-225-3310 or e-mail [BDPS\\_marketing@bd.com](mailto:BDPS_marketing@bd.com).



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# COMPANY PROFILE



## CATALENT PHARMA SOLUTIONS

14 Schoolhouse Road

Somerset, NJ 08873

T: (866) 720-3148

E: sales@catalent.com

Website: www.catalent.com

*Catalent Pharma Solutions* is a leading provider of advanced dose form and packaging technologies as well as development, manufacturing, and packaging services for pharmaceutical, biotechnology, and consumer health companies. Catalent applies its local market expertise and technical creativity to advance treatments, change markets, and enhance patient outcomes. Catalent's proprietary drug delivery and packaging technologies enable customers to achieve their desired clinical and market outcomes, and are used in many well-known products. The Company provides innovative product development, superior quality, advanced manufacturing, and skilled technical service to support its customers' development and product needs.

Catalent holds more than 1,500 patents and patent applications in advanced drug delivery, biologics formulation, manufacturing, and packaging. With experience in more than 100 countries, extensive knowledge of the pharmaceutical, biotechnology, and consumer markets, and a global facility network that spans five continents, Catalent is well positioned to serve you, wherever you do business.

## Services Offered

### Development

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### Drug Delivery

We are the world leader in drug delivery systems. Our technologies include: softgels, LiquiGels® capsules and Vegicaps® Soft capsules; Zydys® fast-dissolve dosage form; oral controlled-release technologies; and inhaled dose forms.

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### Packaging

Catalent is the largest provider of packaging services to the pharmaceutical industry. Globally positioned, our packaging services include clinical supply services, commercial packaging for all dose forms, and the supply of printed components. We specialize in new product launch support and are the recognized leader in the packaging of biotechnology products, and the design and development of innovative compliance packaging, such as RxBarrier+™ for oral solid medications, and novel unit-dose formats like DelPouch® for liquids and creams, and DelStrip® for thin film strips.

# Innovative solutions. Global capabilities.

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**Catalent**

For more information, call us at +1 866 720 3148,  
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  - Biomarkers: The Needle in the Haystack

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Biomaterials  
Blood Brain Barrier  
DNA Delivery  
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# COMPANY PROFILE



CYDEX PHARMACEUTICALS, INC.  
10513 W. 84th Terrace  
Lenexa, KS 66214  
Toll Free: (888) 436.6910 T: (913) 685-8850  
F: (913) 685-8856 E: [cdinfo@cydexpharma.com](mailto:cdinfo@cydexpharma.com)  
Website: [www.cydexpharma.com](http://www.cydexpharma.com)



*CyDex Pharmaceuticals, Inc.* is a specialty pharmaceutical company focused on the development and commercialization of drugs specifically designed to address limitations of current therapies in selected established markets. We have developed a portfolio of product candidates utilizing our drug formulation technology using Captisol® cyclodextrins. Captisol cyclodextrins are a patent-protected, specifically modified family of cyclodextrins designed to improve solubility, stability, bioavailability, safety, and/or dosing of a number of APIs. To maximize our internal resources, experience, and technology, we are focusing on the development and commercialization of product candidates for use in the acute care hospital setting. For those product candidates that likely will entail more extensive

development and commercialization efforts, we partner with established pharmaceutical or specialty pharmaceutical companies. We also outlicense our Captisol technology to third parties for use in the development of their own products

Historically, we have focused on the outlicense of our Captisol technology to established pharmaceutical companies for the application to, and improvement of, product candidates in their pipelines. Our technology has been validated by the launch of four Captisol-enabled® products commercialized by two of our outlicensees, Pfizer and BMS. We originally focused on this strategy to accelerate the commercialization of our Captisol technology and create cash flow for our company. In doing so, we have created a profitable specialty pharmaceuticals business, which has allowed us to expand our strategy to capitalize on the growth opportunities and business lines enabled by Captisol. More recently, we have been focusing on the development of our retained product candidates for use in the acute care hospital setting, as well as our partner product candidates, which we have collaborated with, outlicensed or intend to outlicense to established pharmaceutical companies for development and commercialization.

In 2004, we implemented a general program of providing a limited clinical use agreement for companies early in the development process, which simplifies processing within pharmaceutical companies developing new compounds utilizing Captisol. Pursuant to this type of agreement, the licensee is granted a limited license to use Captisol in small Phase I human clinical trials, and we agree to supply a specified quantity of Captisol to the licensee for such clinical trials. This change in our Captisol outlicensing effort has resulted in many new development efforts, and is a primary contributor to the significant increase in material sales since 2004.

Captisol® and Captisol-enabled® are registered trademarks of CyDex Pharmaceuticals, Inc.

# CAPTISOL<sup>®</sup> - Creating Pure Solutions

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The advanced drug formulation technology of CyDex, Captisol<sup>®</sup>, is based on a modified cyclodextrin molecule that enables creation of new products by significantly improving the solubility, stability, bioavailability, safety and dosing of active pharmaceutical ingredients (APIs).

Captisol<sup>®</sup> is one of a series of anionically charged sulfobutyl ether  $\beta$ -cyclodextrins (SBE-CDs) that were synthesized and patented. The safety and other characteristics of Captisol<sup>®</sup> have been well profiled and are described in a Drug Master File (DMF) with the U.S. Food and Drug Administration.

CyDex works worldwide with companies interested in licensing Captisol<sup>®</sup> and other SBE-CD technologies. A Starter Kit of Captisol<sup>®</sup> is available upon the execution of a confidentiality agreement. Additional supplies can be purchased directly from CyDex.

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**CAPTISOL<sup>®</sup> is process patent protected until 2018**



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Living Beyond Our Legacy



# COMPANY PROFILE



**DPT LABORATORIES**  
318 McCullough  
San Antonio, TX 78215  
T: (210) 476-8100 F: (210) 829-8733  
Web Site: [www.dptlabs.com](http://www.dptlabs.com)

**Year Founded:** 1990

**Number of Employees:** 1,000

**Key Personnel:** Paul Johnson, President; Paul Josephs, Vice President Sales & Marketing;  
Lyle Flom, Vice President, Development & Commercial Services

## Who We Are

DPT, a DFB Pharmaceuticals, Inc. company, is a contract development and manufacturing organization (CDMO). DPT provides pharmaceutical, biotechnology, and consumer healthcare companies the best solutions to their drug development and manufacturing needs through innovation, technology, and service. Specializing in semi-solid and liquid dosage forms, DPT has a reputation for quality, unmatched technical expertise, extensive sterile and non-sterile manufacturing capabilities, and an exemplary regulatory compliance record.

Customers choose DPT as a strategic partner because of our ability to provide fully integrated drug development and manufacturing solutions. DPT customers have confidence that their projects, from concept to commercial manufacturing, will be handled by professionals with unparalleled knowledge and experience, using state-of-the-art equipment and processes.

The ability to develop, manufacture, and commercialize products in semi-solid and liquid dose forms makes DPT unique. To get your next product to market fast and with confidence, call DPT – The Industry Source for Semi-solids and Liquids®.

## Comprehensive Drug Development Services for Sterile & Non-sterile Dose Forms

- Pre-formulation and formulation development
- Biopharmaceutical development
- Analytical method development and validation
- Stability studies
- Process development and validation
- Pilot and proof-of-concept batches from 0.3 kg
- Clinical trial materials phase I-III

## Packaging Services

- Identification and sourcing of relevant packaging options
- Packaging specification development
- Formulation and package compatibility assessment
- Packaging equipment sourcing, design, and engineering services
- Turnkey sourcing services for unique and specialized packaging

## Manufacturing Services for Sterile and Non-sterile Dose Forms

- Four cGMP facilities
- cGMP batch sizes from 0.3 kg - 25,000 kg
- Controlled substances Schedules II-V
- Extensive packaging capabilities for semi-solids and liquids
- Specialized equipment installation, operational qualification, and validation services
- Sterile manufacturing for pilot, clinical, and commercial scale
- Sterile batch sizes from <500 mL to 50 liters
- pMDI and aerosol manufacturing capabilities

## Facilities

Headquartered in San Antonio, TX, DPT has four facilities there and one in Lakewood, NJ, with state-of-the-art development, manufacturing, packaging, and distribution space.



**With DPT,**  
*development and manufacturing  
piece together seamlessly.*

DPT is the contract development and manufacturing organization (CDMO) that specializes in semi-solid and liquid dosage forms. With unmatched technical expertise and fully integrated drug development and manufacturing services, we can help you successfully develop and commercialize your next product. Partnering with DPT gives you a seamless transition from pre-formulation to clinical supplies to commercial supply. After all, keeping it all together is what sets us apart. To get started, visit us at [www.dptlabs.com](http://www.dptlabs.com) or call 1.866.CALL.DPT.



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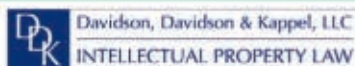
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To learn more, contact Sarah Scarry, Strategic Partnership Manager, at 646-895-7472 or email [sscarry@iirusa.com](mailto:sscarry@iirusa.com).

For exhibits please contact Michael Vidoni at 646-895-7479 or email [mvidoni@iirusa.com](mailto:mvidoni@iirusa.com)



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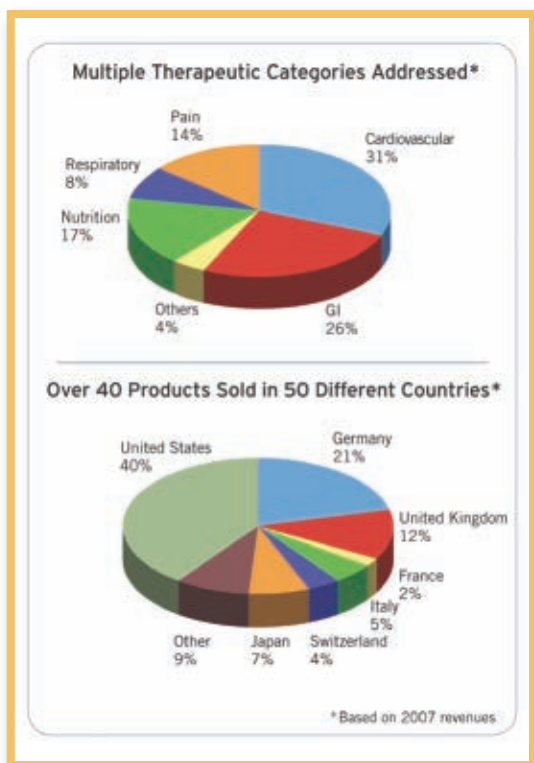
# COMPANY PROFILE



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(Milan) Italy

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E: partners@eurand.com  
Website: www.eurand.com

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Yardley, PA 19067  
U.S.A.



*Eurand* is a global specialty pharmaceutical company that develops, manufactures, and commercializes enhanced pharmaceutical and biopharmaceutical products based on its proprietary drug formulation technologies. Eurand has had 6 products approved by the FDA since 2001 and has a pipeline of product candidates in development for itself and collaboration partners.

Eurand has a strong track-record of developing products using its innovative drug formulation technologies. With integrated manufacturing and R&D facilities in the U.S. and Europe, the company has four primary technology platforms:

- Customized Drug Release
- Bioavailability Enhancement
- Taste Masking / Orally Disintegrating Tablets (ODTs)
- Drug Conjugation

These platforms include 9 distinct technologies and are covered by more than 300 patents. Eurand uses these technologies to develop and expand the Company's own internal pipeline and to partner with pharmaceutical and biopharmaceutical companies to develop their products. Currently, more than 40 products using these technologies

are commercialized worldwide in a range of therapeutic indications.

Eurand is a leading industry partner that provides one of the broadest, well-validated portfolios of novel and proven oral drug delivery technologies. Using these technologies, Eurand turns difficult drug candidates into easy-to-administer, successful pharmaceutical products. Additionally, our technologies can be used to enable the creation of new chemical entities and can also be used as innovative and effective life-cycle management tools that can prolong the market life of products.

We have a number of Rx and OTC products available for licensing. In general, these products are new formulations of existing drugs that incorporate one or more of our proprietary drug delivery technologies. We license these products to pharmaceutical companies for marketing throughout the world.

We manufacture all of the products we develop for ourselves and our licensees. Our manufacturing processes and units are integrated with our R&D facilities, thereby facilitating the scale-up and manufacturing process for products in development. Shared facilities, processes, and development teams enhance this strategy. Additionally, we have facilities in the U.S. and Italy approved to process controlled substances. Our manufacturing sites are regularly inspected by national regulatory agencies and our licensees.

Unique



Unparalleled taste Flexible dose Versatile release Robust tablet

## AdvaTab<sup>®</sup> The next generation ODT

Eurand's AdvaTab is an orally disintegrating tablet (ODT) technology that combines superior taste and mouth feel properties in a robust tablet. AdvaTab is unique, offering both high dose capacity and modified drug release making it the most broadly applicable ODT available. Utilization of standard tableting processes allows for cost-efficient manufacturing and conventional packaging. The next generation ODT is here!



[www.eurand.com](http://www.eurand.com)

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CUSTOMIZED DRUG RELEASE

BIOAVAILABILITY ENHANCEMENT

TASTE MASKING AND ODTs

DRUG CONJUGATION

# Evonik Company Profile



## Evonik Degussa Corporation

Pharma Polymers  
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Piscataway, NJ 08855

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Evonik Industries is a global market leader in specialty chemicals, offering a broad portfolio of products & services to meet the drug delivery challenges of the pharmaceutical market. Evonik Pharma Polymers, a business line within the Chemicals Business Area of Evonik Industries, holds a leading position in the manufacture and supply of functional coatings for the pharmaceutical industry. EUDRAGIT<sup>®</sup> acrylic polymers are used for enteric, sustained release and protective formulations. The unique functionality of EUDRAGIT<sup>®</sup> polymers can also meet high sophisticated drug delivery requirements (e.g. pulsed drug release). We have adapted our services to meet the requirements of the pharmaceutical industry's value chain. As a result, we are able to support our customers in the development process to bring products safely and quickly to the market. From excipients supply to the development of custom tailored drug delivery solutions, our customers benefit from our knowledge and expertise. Pharma Polymers is committed to providing solutions to the pharmaceutical and biopharmaceutical industry in drug development, manufacturing and drug delivery, with products and

services that meet requirements during the entire drug development process – from EUDRAGIT<sup>®</sup> supply via custom development support and GMP services to advanced drug delivery cooperation.

The process chain in formulation development consists of many single demanding steps which are often accelerated when carried out in strategic collaboration with specialists. Pharma Polymers is such a strategic partner, providing global support for local custom-tailored applications: from formulation development via enhanced formulation technologies to unique customer products with individually designed release profiles. Our international network of technical service centers gives you on-site support at every stage of pharmaceutical development, with the same high quality standard and flexible performance anywhere in the world. Benefit from our international team of experts that work for you as soon as you contact a local Pharma Polymers Laboratory. With EUDRAGIT<sup>®</sup> related products and technologies you gain speed to market, access to new drug delivery technologies, and drugs of enhanced value.



### Pharma Polymers is committed to providing solutions to the pharmaceutical industry during the entire dosage form development process:

- **EUDRAGIT<sup>®</sup> Products** – excipients for targeted drug delivery
- **Technical Support** – feasibility testing, on-site scale-up and production support
- **Formulation Development** – matching desired release profiles by various process technologies
- **GMP Services** – clinical batch manufacturing
- **Proof of Concept** – added value formulations for life cycle management and generic developments
- **Advanced Drug Delivery** – unique proprietary solutions for advanced therapies, joint development of enabling technologies

# EUDRAGIT®: More flexibility for more combinations

[www.eudragit.com/products](http://www.eudragit.com/products)



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Products

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4 Proof of  
Concept

5 GMP  
Services

6 Advanced  
Drug Delivery

When it comes to targeted drug release profiles, EUDRAGIT® is the pharmaceutical industry's preferred choice of product. The variety of EUDRAGIT® Poly(meth)acrylate-based products provides full flexibility for your solid oral dosage forms. Moreover, our expert technical support saves you time and costs by offering free of charge feasibility testing, on-site scale up and production support. EUDRAGIT® with its related services adds flexibility and power to your development process.

For innovative product opportunities, contact us at:  
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Drug delivery technologies are an important part of the changing Pharma & Biotech industry. Feedback from patients and physicians, in terms of factors such as perception, desired attributes, compliance, and drivers of adoption/non-adoption for different drug delivery types, is therefore vital to developers. Is your company positioned to understand and take advantage of these opportunities for growth?

Frost & Sullivan's Pharmaceutical & Biotechnology group can provide your organization with the research and support it needs to fully understand end-users of Drug Delivery Technologies, and to identify and take advantage of the best opportunities for growth in this market.

Our expert Healthcare analysts:

- Provide objective, 3rd party analysis
- Identify a range of growth options
- Evaluate which options will produce the best Return on Investment
- Work with clients to develop effective implementation strategies

For more information on growth opportunities in the Drug Delivery market, please contact Johanna Haynes at [johanna.haynes@frost.com](mailto:johanna.haynes@frost.com).

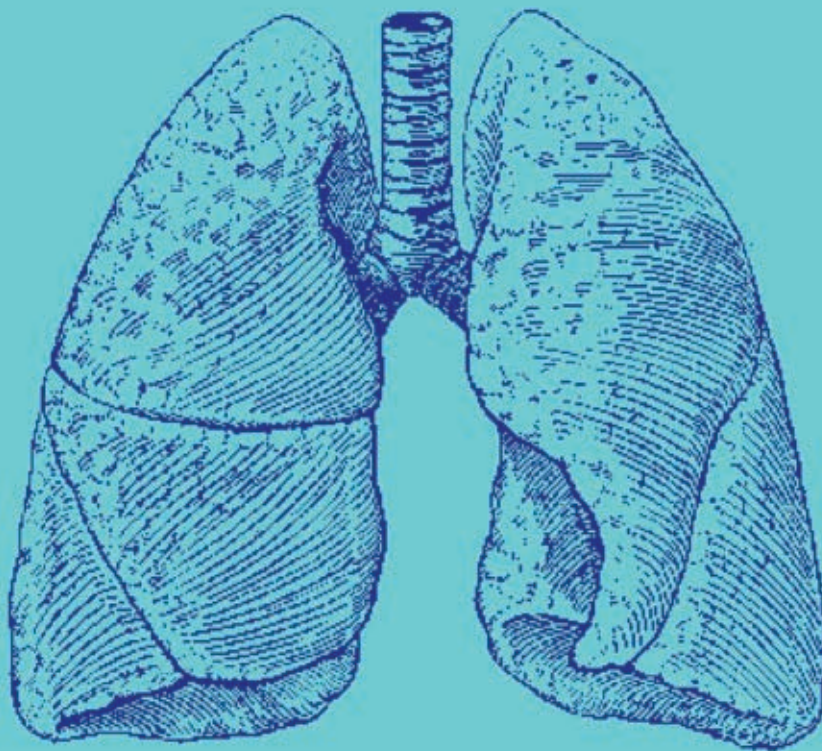
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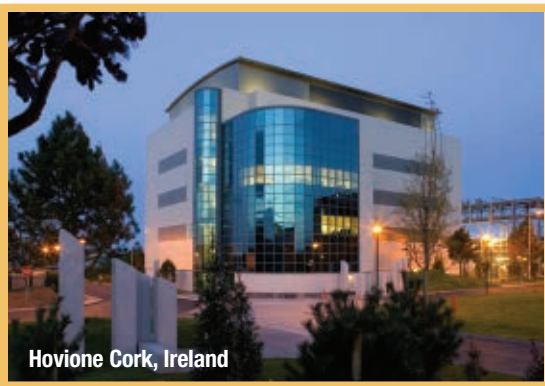
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# COMPANY PROFILE



## HOVIONE

Technology Transfer Center  
40 Lake Drive  
East Windsor, NJ 08520  
T: (609) 918-2600 F: (609) 918-2615  
E: hello@hovione.com  
Website: www.hovione.com



Hovione Cork, Ireland

**When you really care about quality and performance, Hovione is the API partner you choose.**

Hovione is an international company with 50-years' experience in API development and compliant manufacture. With four FDA inspected sites in the US, China, Ireland, and Portugal, the company focuses on the most demanding customers in the most regulated markets. The company offers integrated API, particle design, and formulation development and manufacturing. In the inhalation area, Hovione is the only independent company offering such a broad range of services.

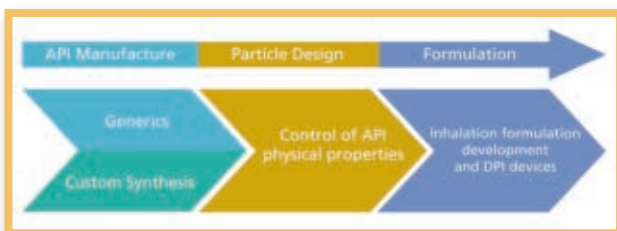
## Particle design technologies for enhanced API performance.

Hovione's specialist capabilities in pharmaceutical fine chemicals have been enhanced through an extensive range of advanced and proven enabling technology platforms to address specific formulation and bioavailability issues through proven state-of-the-art particle design solutions.

Our state-of-the-art cGMP spray-drying facilities offer our customers a path to commercialization. These facilities give our customers the ability to control not only particle size, but also the morphology of the product, which allows for the optimization of the particle and delivery characteristics of preformulated APIs. Hovione can perform a wide range of feasibility studies, from just a few grams to full-scale commercial production, to meet your specific product requirements.



Drying chamber of a commercial spray dryer



Hovione's particle design expertise combines a range of proven enabling technology platforms, which include spray drying, spray congealing, jet milling, wet milling, and controlled crystallization. These particle design capabilities are further complemented by our ability to manufacture your API (including potent APIs) or to perform formulation studies for inhalation development using Hovione's dry powder

inhalers or other inhalers. Our aim is to provide our customers with solutions for their complex drug delivery concerns.



## What it feels like when High Potency Spray Drying makes your new drug work more effectively.

Improved solubility and increased bioavailability are just two of the advantages you get with High Potency Spray Drying from Hovione. We're the first manufacturing partner to offer true multi-scale cGMP facilities for Advanced APIs. To find out more about this and our other capabilities, visit us at [www.hovione.com](http://www.hovione.com) or call us now on Worldwide +351 21 982 9451, or North America +1 609 918 2466

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# COMPANY PROFILE



**INNERCAP TECHNOLOGIES, INC.**  
9745 International Court North  
St. Petersburg, FL 33716  
T: (813) 837-0796 F: (813) 837-0207  
E: [info@innercap.com](mailto:info@innercap.com)  
Website: [www.innercap.com](http://www.innercap.com)



*INNERCAP Technologies, Inc.* offers NOVACAPSTM, a multi-phase, multi-compartment single pill solution for difficult combination drugs. The proprietary NOVACAPSTM delivery system accommodates otherwise incompatible pharmaceutical agents, solid or liquid, in a single-dosage, combination product. The delivery system also provides the option of working with multiple release profiles for the actives administered in the delivery system. Surging worldwide interest in such combination formats is evidenced by the FDA's initiative to advance the development of single-dosage forms for delivery of multiple HIV/AIDS drugs.

With the INNERCAP delivery system, therapeutic entities that have never been combined previously can now be administered together, via an oral, implanted, or a suppository capsule, in the most advantageous pharmacokinetic profile, utilizing different physical phases. This approach maximizes bioavailability and, at the same time, addresses patient compliance issues that often plague multi-drug regimens.

The NOVACAPSTM delivery system can be used for all therapeutic classes, such as immunologic, cardiovascular, neurologic, psychiatric, oncologic, and pain management.

The INNERCAP delivery system also provides a solution to overcome the difficult development issues related to bi-layer tablets. This will provide companies with a quicker and efficient solution to transition innovations smoothly from development, through the clinical phase, and into commercialization — ultimately reaping the financial fruits of their labor.

NOVACAPSTM offers a significant first-to-market advantage by minimizing valuable time in R&D when the product could be in clinical trials determining the patient response to a new combination product.

Companies interested in a novel solution for life-cycle management issues, patent protection, increased compliance, combination drugs, reduced counterfeiting, increased stability, multiple release profiles, increased bioavailability, barriers to entry, higher perceived value, and branding opportunities with difficult formulation issues can contact INNERCAP Technologies.

# THE ADVANTAGES

OF MULTI-PHASE, MULTI-COMPARTMENT CAPSULES ARE CLEAR

## Deliver Incompatible Compounds

Deliver incompatible compounds in a single dosage form with different release profiles.

## Multiple Release Profiles

Incorporate one or more release profiles into a single dosage form such as immediate, enteric, targeted, chronotherapy and pulsatile.

## Higher Perceived Value

Consumers view multi-phase, multi-compartment capsules as having a higher perceived value than ordinary tablets, capsules and soft gels.

## Choice of HPMC or Gelatin Capsules

With multi-phase, multi-compartment capsules you are not limited to just gelatin (animal-based product) but have the option of natural HPMC (hydroxypropyl methyl-cellulose) and alternative capsule materials.

## Better Visual Appeal

Multi-phase, multi-compartment capsules have none of the dust and residue associated with powder capsules. Better visual product appearance translates to higher perceived value.

## Increased Absorption and Bioavailability

Liquids naturally offer faster and increased absorption and availability of active ingredients.

## Increased Profit Potential

Add up all the advantages. Expect higher sales...and high margins!



## Multi-Phase System

Compounds can be delivered with the most advantageous pharmacokinetic profile such as liquids and solids

## Faster Development

Multi-phase, multi-compartment capsules reduce the development time compared to bi-layer tablets to get a new product into clinical trials faster.

## Smaller Capsules

Hard-shell capsules have thinner wall construction, allowing them to contain more ingredient in a smaller capsule versus thicker-shelled soft gel capsules.

Hard shells have faster and more complete dissolution than soft gels.

## Less Odor and Less Irritation

Reduces unpleasant ingredient taste and odor commonly found with tablets and traditional capsules. And, liquids provide less irritation than traditional delivery methods.

## Tamper Proof Sealing

Band sealing reduces tampering and provides a non-permeable barrier to retard oxidation and increase shelf-life.

## Unique Appearance

This new delivery system stands apart from look-alike products that crowd retail shelves.

## Compounds

Deliver Pharmaceutical, bio-pharmaceutical and nutraceuticals in a single dosage form.



Patent Pending US-2005-0008690-A1

# COMPANY PROFILE



## LIFECYCLE PHARMA (LCP) A/S

Kogle Allé 4

DK-2970 Hørsholm, Denmark

T: +45 3613 2932 Mobile: +45 5131 2932

Contact: (Eric Maulhardt, Senior Director Commercial Development) [ema@lcpharma.com](mailto:ema@lcpharma.com)

Website: [www.lcpharma.com](http://www.lcpharma.com)

LifeCycle Pharma (LCP) A/S is an emerging specialty pharmaceutical company focused on organ transplantation and certain cardiovascular indications. LCP is an international company with headquarters and R&D operations located in Copenhagen (Hørsholm), Denmark, with a subsidiary in New York City. The Company was founded in June 2002 as a spin-off from Lundbeck A/S and employs approximately 70 people. The Company is listed on the OMX Nordic Exchange (OMX: LCP) and is a member of the MidCap+ index.

The company is focused on improving the formulation of known and tested pharmaceuticals, which means a shortened development and regulatory path and faster time to commercialization. LCP's proprietary MeltDose<sup>®</sup> technology has been designed to enhance the release and absorption and bioavailability of drug substances in the body by incorporating a soluble form of the drug in a tablet matrix.

LCP has one commercialized product, Fenoglide<sup>®</sup>. The product has received FDA approval for sale in the US under the brand name Fenoglide<sup>®</sup> for the treatment of dyslipidemia and was launched in February 2008. Fenoglide<sup>®</sup> is marketed in the US by the partner Sciele Pharma, Inc. (a Shionogi company). In addition, LCP has a diversified near- and medium-term pipeline with a number of product candidates in clinical trials and in preclinical development.

### **MeltDose<sup>®</sup> Technology**

MeltDose<sup>®</sup> technology ([www.meltdose.com](http://www.meltdose.com)) is a one step industrial process designed to enhance the oral bioavailability of poorly water soluble drugs. The formulation principle is based on creation of a solid dispersion through a simple physical process. MeltDose<sup>®</sup> has been validated in numerous clinical studies, in partnership with several leading pharmaceutical companies and by the FDA approval and launch of Fenoglide<sup>®</sup> on the US market. The process uses only conventional manufacturing equipment and has been scaled up to 400 kg. The MeltDose<sup>®</sup> process is also patent protected in the US and other countries until 2022. Whether you are looking to develop new formulations or to improve the efficacy of existing ones, MeltDose<sup>®</sup> technology gives you a cost-effective way to deliver innovative products that will help improve the quality of life for patients.

VISIT OUR WEBSITE [WWW.MELTDOSE.COM](http://WWW.MELTDOSE.COM)



Improving Treatments  
Improving Lives

# MELTDOSE® – A BETTER WAY TO BETTER DRUG ABSORPTION

## MELTDOSE® – BREAKTHROUGH TECHNOLOGY THAT'S MORE EFFECTIVE

Now there is a faster and more cost-effective way to enhance absorption in order to improve drug availability and clinical profile.

MeltDose® technology is a one step industrial process designed to enhance the oral bioavailability of poorly water soluble drugs.

### 5 REASONS TO CHOOSE MELTDOSE®

- 1. Clinically proven**  
to improve bioavailability and/or reduce food effect
- 2. Commercially viable**  
with the first MeltDose® based product, Fenoglide™ on the market in the US
- 3. Patent protected**
- 4. Easily scalable**  
and requiring only conventional manufacturing equipment
- 5. Cost effective**  
as the cost of goods is comparable to conventional tablets



# COMPANY PROFILE



**NU SIL TECHNOLOGY**  
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T: (805) 684-8780 F: (805) 566-9905  
E: silicone@nusil.com  
Website: www.nusil.com

Contact: Brian Reilly, Product Director – Healthcare Materials



## **Creative Partners in a Material World**

NuSil Technology is a cutting-edge global manufacturer of silicone compounds for the healthcare industries with over 25 years of experience. Developing novel silicone systems, NuSil offers a complete line of customizable adhesives, elastomers, fluids, and gels. We meet the demands of new and innovative technologies by building on our experience and expanding our products and services to offer exclusive silicone solutions specifically designed for drug delivery and medical device products.

Silicone materials may be used as both matrix and reservoir delivery type systems for transdermal, transmucosal, and both long- and short-term implantable devices. Beyond the versatile qualities that have made them a raw material of choice for various drug delivery devices and systems, silicone materials have a proven history of being biologically inert.

## **Regulatory Support**

NuSil has an unsurpassed level of regulatory support for its products. Many NuSil materials are supported by USP Class VI and ISO 10993 testing. NuSil maintains a strong-standing relationship with the US FDA and other global regulatory bodies and is willing to support its materials for long-term implantable and drug delivery applications.

## **Custom Formulations**

If a feature or requirement is not available in an existing product line, NuSil will customize a silicone system keeping critical regulatory considerations in mind for your unique application. Silicones can also be uniquely tailored to influence the release of a wide range of Active Pharmaceutical Ingredients (APIs).



## **Facilities & Systems**

Our materials are uniquely developed or qualified in ISO 9001-2008 certified manufacturing facilities, including an FDA-registered facility – ensuring consistent processes and standards across the globe. NuSil hosts hundreds of customer visits and audits every year, welcoming interaction with our customers.

NuSil's multiple manufacturing locations in the United States are capable of producing batches from less than 1 kilogram to thousands of kilograms. When your custom material is ready to scale up, NuSil can respond quickly and effectively.



We answered the cry.

Transdermal, transmucosal  
or implanted.

Better ways to take your medicine.

NuSil Technology.

New drug delivery systems. They're making life-saving medicines easier to take. And that's helping save patients' lives, while improving their quality of life.

NuSil is a leading provider of custom silicone solutions. Our scientists are dedicated to helping innovators innovate.

From ingestible Simethicone, transdermal and transmucosal delivery systems, to long-term, controlled-release implants, you can count on NuSil. Whether your need is for large batches or small, we deliver precise, custom formulations that help facilitate elution. And our 30 years of healthcare expertise enables us to provide unparalleled regulatory support to make the entire process easier for you, while helping to speed your products to market.

What? When? Where? If it's NuSil, it's no problem.



What's your challenge?

[www.nusil.com/ddt](http://www.nusil.com/ddt)

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# COMPANY PROFILE



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Website: [www.PharmaCircle.com](http://www.PharmaCircle.com)

## *One-Stop Service for Pharma/Biotech & Drug Delivery Information*

PharmaCircle is a premier knowledge management company serving the current and future global leaders in the Pharmaceutical and Biotechnology related industries since 2003. PharmaCircle's business growth is driven by referrals and demand from individuals who have used our service.


### **PharmaCircle provides:**

- Global pipeline and product-related information searchable by 65 distinct product and molecule-related details. Product information integrates clinical trials, global partnerships by territory, sales by quarter/year/territory, regulatory dates (registration, approval and launch dates in each territory), delivery technology/route/excipients used, and more....
- Extensive company-related information, including pipeline and products, deals and acquisitions, financials, venture capital investments, product sales, delivery and discovery technologies, pharmaceutical services, news, patents, and more....
- Comprehensive and up-to-date drug delivery technology information and analysis on >3300 technologies in 200+ categories from more than 1000 companies globally.
- One-of-a-kind FDA-specific search engines parse FDA data on approved products, including prescription labels, NDC/packaging, and excipients.
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# COMPANY PROFILE

## PHARMAFORM L.L.C.

11501 Domain Drive, Suite 130  
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Website: [www.pharmaform.com](http://www.pharmaform.com)

Contact: Elizabeth Hickman, (512) 531-6664

E: [info@pharmaform.com](mailto:info@pharmaform.com)



**PharmaForm**<sup>™</sup> L.L.C.  
Excellence & Innovation in the Pharmaceutical Sciences



*PharmaForm* is a leading specialty contract development and manufacturing organization specializing in oral and transmucosal dosage forms. PharmaForm's services include:

- Formulation & Process Development
- Method Development
- GMP Manufacturing
- Quality Control Testing
- Stability Testing & Storage
- Patent Litigation Support
- Controlled Substances

An estimated 40% of drugs in the development pipeline are considered poorly soluble. Combining innovative technologies with our experienced and highly-trained scientific staff, PharmaForm creates customized solutions to enhance the bioavailability of poorly soluble drugs. PharmaForm's portfolio of bioavailability enhancement technologies includes:

- Hot Melt Extrusion
- Spray Drying
- Solvent-based Fluid Bed Processing
- Liquid Filled Hard Capsules

Each member of the PharmaForm team shares a common mission: delivering unmatched excellence and innovation in drug development; completing each project in a timely and cost-effective manner; and maintaining a customer-focused operational infrastructure.

PharmaForm creates customized solutions to meet each molecule's specific needs and help our clients reach their development targets, reduce development costs and accelerate time-to-market.

## **Our Expertise – Your Advantage**

# more tools



## BIOAVAILABILITY ENHANCEMENT

- Hot Melt Extrusion
- Spray Drying
- Liquid Filled Hard Capsules
- Fluid Bed Processing

PharmaForm's toolbox of bioavailability enhancement technologies combined with our drug delivery expertise enables us to overcome some of the most difficult solubility challenges. From solid dispersions to controlled release, PharmaForm creates customized solutions to meet each molecule's needs and help you nail the next blockbuster.

Discover what's in PharmaForm's toolbox, call **(512) 834-0449 x264** or visit [www.PharmaForm.com](http://www.PharmaForm.com).



Dosage Form Development  
GMP Manufacturing

# COMPANY PROFILE



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Website: [www.ppdi.com](http://www.ppdi.com)



PPD is a global contract research organization at the forefront of the drug development services market. Our innovative technologies, therapeutic expertise, expansive portfolio of services (preclinical through post-approval and labs), and quality commitment are why most of the top 50 pharmaceutical and biotechnology companies rely on us. With offices in 38 countries and more than 10,000 professionals worldwide, PPD provides discovery, development, and post-approval services as well as compound partnering programs. Through close collaboration with pharmaceutical, biotechnology, medical device, academic, and government

organizations, we help our clients and partners maximize returns on their R&D investments and accelerate the delivery of safe and effective therapeutics to patients.

## **Discovery Sciences/Compound Partnering**

- Biomarker services
- Nonclinical development
- Preclinical services
- PPD® Dermatology

## **Development Services**

- Phase I clinic
- Full service Phase II-IIIb clinical studies for multinational regulatory submissions
- GLP bioanalytical, cGMP product analysis, biomarker, vaccines and biologics, and Phase I-IV global central labs
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For more information, visit [www.ppdi.com](http://www.ppdi.com).

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## Focused on Your Results

At PPD, we look at your product a little differently. We view it as our own. So, naturally, we want to see it succeed as much as you do. That's why we integrate our passion for science and our commitment to your study goals into one clear vision of success—assuring you the highest quality results in the industry, on time and on budget.

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- direct contact with technical experts working directly on your project.
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Throughout your study, the process is transparent and you're in control. For our part, count on PPD to keep a close eye on the details, while we keep our sights set on the big picture.

**For more information:** Call Nick Maraveyas at +1 910 815 3476, e-mail us at [labs@ppdi.com](mailto:labs@ppdi.com) or visit us at [www.ppdi.com](http://www.ppdi.com)

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# COMPANY PROFILE



## UNILIFE MEDICAL SOLUTIONS

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Website: www.unilife.com



## Company

Unilife Medical Solutions is dedicated to the **design, development, and supply of innovative safety medical devices**, which can enhance and safe lives. Our proprietary portfolio of prefillable and clinical use syringes incorporate a unique range of automatic and fully integrated features, which can protect those at risk of infection from needlestick injuries and other unsafe injection practices.

Each Unilife product is custom-designed to address the **specific functionality** and injection safety requirements of a target healthcare or pharmaceutical market, which is transitioning to the use of safety syringes.

## Products

Our Unifill range of glass **ready-to-fill syringes** is designed for compatibility with the drug validation, dose filling, and packaging systems used by pharmaceutical customers for standard prefillable syringes.

Our Unित्रact range of **plastic syringes** is designed to help healthcare workers and patients draw-up and administer therapeutic medication from vials with minimal discomfort and improved convenience.

We strive to ensure that all Unilife syringes incorporate **best-in-class features** so that they may be positioned to become products of choice within their target market sector.

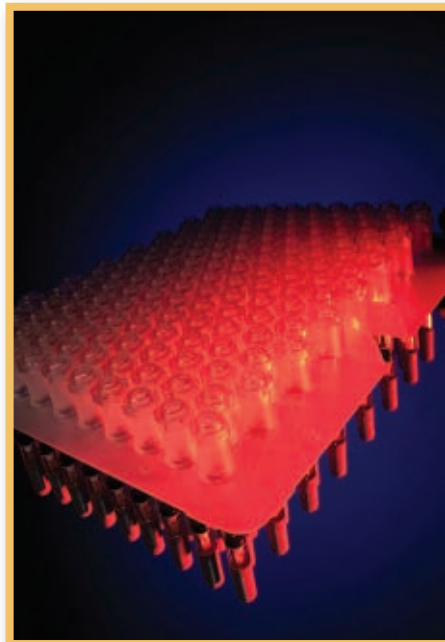
## Customers

Our clients include **pharmaceutical customers and suppliers of medical devices** to healthcare workers and patients who self-administer prescription medication outside of the healthcare setting. These customers can utilize our unique products and services to improve compliance with needlestick prevention laws, streamline operating efficiencies, expand coverage into new or emerging markets, and optimize rates of product differentiation within competitive industry sectors.

## Capabilities

We are **ISO13485 certified** and develop both our proprietary medical devices and the automated assembly systems used to manufacture them at our FDA-registered manufacturing facilities in Pennsylvania. We pride ourselves on the development of a world-class team with the depth, expertise, and passion needed to make us a strong, reliable **and trusted partner for global industry leaders** within pharmaceutical and healthcare markets.

**Working with Unilife** means you have selected a partner that is committed to providing the medical device solutions that can fulfill both your internal needs as well as those of your customers.





**Outside the box *innovation***

**Inside the syringe *safety***

**Compatible**

***Integrated***

**Retractable**

***Intuitive***

**Safe**

[www.unilife.com](http://www.unilife.com)



# COMPANY PROFILE



## XCELIENCE

5415 West Laurel Street  
Tampa, FL 33607

Corporate Phone: (813) 286-0404 Business Development Phone: (608) 643-4444

F: (813) 286-1105 E: Info@xcelience.com

Website: www.xcelience.com

Contact: Randall Guthrie, Vice President



*Xcelience* is your premier source for formulation development and manufacturing solutions. From preformulation to clinical supplies manufacturing and stability, we have one focus: the success of your project.

Our state-of-the-art equipment, including the Capsugel® Xcelodose® 600 S, XRD, and TF-1 Blister Packaging Thermoformer, combined with our years of experience providing innovative solutions make the path from compound to clinic feel effortless. We are more than just a service. We are formulation development and manufacturing made easy – at last.

### Preformulation

At Xcelience, we are aware of the extensive amounts of information required for preformulation, and we can tailor our research to only those pieces of information immediately relevant for developing a certain dosage form.

- Salt Screen
- Polymorph Screen
- Drug Substance Characterization
- Excipient Compatibility
- Accelerated Stability
- Chiral Stability

### Formulation

Xcelience has capabilities in formulation development for NDA and ANDA dosage forms, troubleshooting and process development of existing dosage forms, optimization of existing formulations, and qualitative/quantitative evaluation of proprietary dosage forms.

- Solids (tablets, capsules, sustained release, and coatings)
- Semi-solids (ointments, creams, gels)
- Dispersed Systems (emulsions, suspensions)
- Liquids (orals, ophthalmics, parenterals)

### Analytical

Analytical capabilities include method development, qualification and validation, raw material testing, stability sample analysis, dissolution testing, residual solvent analysis, chiral determination, cleaning evaluations, and technical packages for drug substances.

### Manufacturing

Clinical supplies manufacturing capabilities include API into capsule, tablets and capsules, liquid in capsule, semi-solids, and non-sterile liquid. In addition, we provide reference product blinding, packaging and labeling services, and offer expertise in creation of matching placebo formulation, creation, and qualification of blinded reference product, process qualification, process definition optimization, and technology transfer.

### Stability

Xcelience gathers information from our clients to establish the correct parameters of our stability studies, including appropriate test conditions, the duration of the stability study, the testing intervals, and the analytical methods. These processes vary with the type of product and type of study, scientific or regulatory, and Xcelience has extensive experience with both.

- SLIM, our stability laboratory information management system, meets FDA standards for 21CFR11 compliance.

### Consulting

Xcelience recognizes virtual and emerging clients may wish to supplement their service offerings with drug development consulting services in order to bring their ideas to reality. Drug development consulting services include product development planning, management and review, analytical development planning and review, project management, vendor selection management, expert testimony, technical due diligence, and candidate evaluation.



# AT LAST

Early drug development made easy.

---

**Xcelience**<sup>®</sup> is your premier source for formulation development and manufacturing solutions. From preformulation to clinical supplies manufacturing and stability, we have one focus: the success of your project.

Our state-of-the-art equipment, including the XRD, Xcelodose<sup>®</sup> 600 S, and TF-1 Blister Packaging Thermoformer, combined with our years of experience providing innovative solutions make the path from compound to clinic feel effortless.



marks the spot for formulation development and manufacturing made easy - *at last*.



[www.xcelience.com](http://www.xcelience.com)

Contact us today at **1.608.643.4444** or [info@xcelience.com](mailto:info@xcelience.com).

# Drug Delivery<sup>®</sup> Technology

including

**SPECIALTY**   
Strategies For **PHARMA**  
Business Development

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## AEROSOL FILLING

3M Drug Delivery Systems  
www.3M.com/dds  
See Company Profile

DPT  
www.dptlabs.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

## ANALYTICAL & TESTING

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Boston Analytical, Inc.  
www.bostonanalytical.com

BRI Biopharmaceutical Research Inc.  
www.bripharm.com

Ciba Expert Services  
www.cibaexpertservices.com

Coating Place, Inc.  
www.encap.com

De Novo Software  
www.denovosoftware.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
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Exemplar Pharma LLC  
www.exemplarpharm.com

Formurex, Inc.  
www.formurex.com

Hovione  
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Irvine Pharmaceutical Services  
www.irvinepharma.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
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PPD  
www.ppdi.com  
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Primera Analytical Solutions  
www.David.Jones@Primera-Corp.com

SGS Life Science Services  
www.sgs.com/pharmaqc

Spraying Systems Co.  
www.spray.com

The Tech Group  
www.techgroup.com

Xcelience  
www.xcelience.com  
See Company Profile

Zyleris PharmaTech  
www.zyleris.com

## ANALYTICAL DEVELOPMENT

Almac Group  
www.almacgroup.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioConvergence LLC  
www.bioc.us

BioVolutions  
www.bioevolutions.com

BRI Biopharmaceutical Research Inc.  
www.bripharm.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Cook Pharmica  
www.cookpharmica.com

DPT  
www.dptlabs.com  
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DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Exemplar Pharma LLC  
www.exemplarpharm.com

FormuMax Scientific, Inc  
www.LiposomeExpert.com

Formurex, Inc.  
www.formurex.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
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LabConnect  
www.labconnectllc.com

Pacific Biometrics, Inc.  
www.pacbio.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
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www.ppdi.com  
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www.David.Jones@Primera-Corp.com

Rubicon Research Private Limited  
www.rubicon.co.in

Xcelience  
www.xcelience.com  
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Zyleris PharmaTech  
www.zyleris.com

## ANALYTICAL METHODS DEVELOPMENT

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www.almacgroup.com

Azopharma Product Development Group  
www.azopharma.com  
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Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioConvergence LLC  
www.bioc.us

Boston Analytical, Inc.  
www.bostonanalytical.com

BRI Biopharmaceutical Research Inc.  
www.bripharm.com

Catalent Pharma Solutions  
www.catalent.com  
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Ciba Expert Services  
www.cibaexpertservices.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Emerson Resources, Inc  
www.emersonresources.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Formurex, Inc.  
www.formurex.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
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Metrics, Inc  
www.metricsinc.com

OctoPlus N.V.  
www.octoplus.nl

Pacific Biometrics, Inc.  
www.pacbio.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
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Pharmatek Laboratories, Inc.  
www.pharmatek.com

PPD  
www.ppdi.com  
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Primera Analytical Solutions  
www.David.Jones@Primera-Corp.com

The University of Iowa Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

Xcelience  
www.xcelience.com  
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## ANALYTICAL VALIDATION STUDIES

Almac Group  
www.almacgroup.com

Azopharma Product Development Group  
www.azopharma.com  
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Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Boston Analytical, Inc.  
www.bostonanalytical.com

BRI Biopharmaceutical Research Inc.  
www.bripharm.com

Ciba Expert Services  
www.cibaexpertservices.com

De Novo Software  
www.denovosoftware.com

DPT  
www.dptlabs.com  
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DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Emerson Resources, Inc  
www.emersonresources.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Formurex, Inc.  
www.formurex.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
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Metrics, Inc  
www.metricsinc.com

Pacific Biometrics, Inc.  
www.pacbio.com

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PharmaNova  
www.pharmanovaco.com

PPD  
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See Company Profile

Primera Analytical Solutions  
www.David.Jones@Primera-Corp.com

Rubicon Research Private Limited  
www.rubicon.co.in

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

Xcelience  
www.xcelience.com  
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## ASEPTIC PROCESSING

Baxter Healthcare Corporation  
www.baxterbiopharmasolutions.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Enzon Pharmaceuticals, Inc.  
www.enzon.com

Hospira One2One  
www.one2one.hospira.com

PPD  
www.ppd.com  
See Company Profile

Vetter Pharma-Fertigung GmbH  
& Co. KG  
www.vetter-pharma.com

## ASSAY DEVELOPMENT

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BRI Biopharmaceutical  
Research Inc.  
www.bripharm.com

Catalent Pharma Solutions  
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DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Exemplar Pharma LLC  
www.exemplarpharm.com

LabConnect  
www.labconnectllc.com

54 Pacific Biometrics, Inc.  
www.pacbio.com

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## BIOANALYTICAL ANALYSIS

Azopharma Product  
Development Group  
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BRI Biopharmaceutical  
Research Inc.  
www.bripharm.com

DSM Pharmaceuticals  
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ICON Development Solutions  
www.icondevsolutions.com

Pacific Biometrics, Inc.  
www.pacbio.com

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## BIOANALYTICAL DEVELOPMENT

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DSM Pharmaceuticals  
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Particle Sciences  
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## BIOLOGICS MANUFACTURING

Baxter Healthcare Corporation  
www.baxterbiopharmasolutions.com

Cherry Instruments  
www.cherryinstruments.com

Cook Pharmica  
www.cookpharmica.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Hyaluron Contract  
Manufacturing  
www.hyaluron.com

Polymun Scientific GmbH  
www.polymun.com

## BIOLOGICS PROCESS DEVELOPMENT

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Charles River  
www.criver.com

Cook Pharmica  
www.cookpharmica.com

Hyaluron Contract Manufacturing  
www.hyaluron.com

Polymun Scientific GmbH  
www.polymun.com

## BIOMARKER RESEARCH & VALIDATION

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## CAPSULE FILLING

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www.catalent.com  
See Company Profile

Coating Place, Inc.  
www.encap.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Eurand  
www.eurand.com  
See Company Profile

Elan Drug Technologies  
www.elandrugtechnologies.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

INNERCAP Technologies Inc.  
www.innercap.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

Xcelience  
www.xcelience.com  
See Company Profile

## CENTRAL LABORATORY SERVICES

Boston Analytical, Inc.  
www.bostonanalytical.com

Charles River  
www.criver.com

De Novo Software  
www.denovosoftware.com

LabConnect  
www.labconnectllc.com

Pacific Biometrics, Inc.  
www.pacbio.com

PPD  
www.ppd.com  
See Company Profile

Xcelience  
www.xcelience.com  
See Company Profile

## CHEMICAL ANALYSIS

Almac Group  
www.almacgroup.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Charles River  
www.criver.com

Hovione  
www.Hovione.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

West Analytical Services  
www.WestAnalyticalServices.com

## CHROMATOGRAPHIC ANALYSIS LC/GC, GC/MS

Almac Group  
www.almacgroup.com

# CONTRACT SERVICES

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Boston Analytical, Inc.  
www.bostonanalytical.com

BRI Biopharmaceutical Research Inc.  
www.bripharm.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

PPD  
www.ppdi.com  
See Company Profile

West Analytical Services  
www.WestAnalyticalServices.com

## CLINICAL ANALYSIS

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

BRI Biopharmaceutical Research Inc.  
www.bripharm.com

De Novo Software  
www.denovosoftware.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

PPD  
www.ppdi.com  
See Company Profile

## CLINICAL MONITORING

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Pharma Focus Israel  
www.pharmafocus.co.il

PPD  
www.ppdi.com  
See Company Profile

## CLINICAL RESEARCH

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Charles River  
www.criver.com

ICON Development Solutions  
www.icondevsolutions.com

PPD  
www.ppdi.com  
See Company Profile

## CLINICAL SUPPLY MANAGEMENT

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

GALENIX  
www.galenix.fr

Rubicon Research Private Limited  
www.rubicon.co.in

Xcelience  
www.xcelience.com  
See Company Profile

## CLINICAL TRIAL MFG/SCALE-UP

American Peptide Company, Inc.  
www.americanpeptide.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Emerson Resources, Inc  
www.emersonresources.com

GALENIX  
www.galenix.fr

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Metrics, Inc  
www.metricsinc.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Rubicon Research Private Limited  
www.rubicon.co.in

Stason Pharmaceuticals Inc.  
www.stasonpharma.com

Xcelience  
www.xcelience.com  
See Company Profile

## CLINICAL TRIALS MANAGEMENT

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Pharma Focus Israel  
www.pharmafocus.co.il

PPD  
www.ppdi.com  
See Company Profile

## CLINICAL TRIALS PACKAGING

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioConvergence LLC  
www.bioc.us

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Dow Pharmaceutical Sciences, Inc.  
www.dowpharmsci.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Xcelience  
www.xcelience.com  
See Company Profile

## CLINICAL TRIALS PHASE I

Activaero America, Inc.  
www.activaero.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Charles River  
www.criver.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

Emerson Resources, Inc  
www.emersonresources.com

ICON Development Solutions  
www.icondevsolutions.com

LabConnect  
www.labconnectllc.com

Pharma Focus Israel  
www.pharmafocus.co.il

PPD  
www.ppdi.com  
See Company Profile

## CLINICAL TRIALS PHASE II

Activaero America, Inc.  
www.activaero.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

Emerson Resources, Inc  
www.emersonresources.com

ICON Development Solutions  
www.icondevsolutions.com

LabConnect  
www.labconnectllc.com

Pharma Focus Israel  
www.pharmafocus.co.il  
See Company Profile

PPD  
www.ppdi.com  
See Company Profile

## CLINICAL TRIALS PHASE III

Activaero America, Inc.  
www.activaero.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

LabConnect  
www.labconnectllc.com

Pharma Focus Israel  
www.pharmafocus.co.il

PPD  
www.ppdi.com  
See Company Profile

## CLINICAL TRIALS PHASE IV

Activaero America, Inc.  
www.activaero.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile



# CONTRACT SERVICES

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

LabConnect  
www.labconnectllc.com

Pharma Focus Israel  
www.pharmafocus.co.il

PPD  
www.ppd.com  
See Company Profile

## CMC (CHEMISTRY, MANUFACTURING & CONTROLS)

American Peptide Company, Inc.  
www.americanpeptide.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioVolutions  
www.bioevolutions.com

BRI Biopharmaceutical  
Research Inc.  
www.bripharm.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Hovione  
www.Hovione.com  
See Company Profile

Irvine Pharmaceutical Services  
www.irvinepharma.com

Northern Lipids Inc  
www.northernlipids.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

Primer Analytical Solutions  
www.David.Jones@Primer-  
Corp.com

Xcelience  
www.xcelience.com  
See Company Profile

## COATING & LAMINATION

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

LTS Lohmann Therapie-  
Systeme AG  
www.ltslohmann.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## CONSULTING

Alaeras  
www.alaeras.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Charles River  
www.criver.com

Ciba Expert Services  
www.cibaexpertservices.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Duoject Medical Systems Inc.  
www.duoject.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Foster-Miller  
www.foster-miller.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

ICON Development Solutions  
www.icondevsolutions.com

Pharma Focus Israel  
www.pharmafocus.co.il

PPD  
www.ppd.com  
See Company Profile

Radius Product Development  
www.radiuspd.com

## CONTRACT DEVELOPMENT & MANUFACTURING ORGANIZATION (CDMO)

Alaeras  
www.alaeras.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Cambrex  
www.cambrex.com

Coating Place, Inc.  
www.encap.com

Cook Pharmica  
www.cookpharmica.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Foster-Miller  
www.foster-miller.com

Genzyme Pharmaceuticals  
www.genzyme pharmaceuticals.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hospira One2One  
www.one2one.hospira.com

Hovione  
www.Hovione.com  
See Company Profile

Metrics, Inc  
www.metricsinc.com

OctoPlus N.V.  
www.octoplus.nl

PharmaForm  
www.PharmaForm.com  
See Company Profile

Pharmatek Laboratories, Inc.  
www.pharmatek.com

Polymun Scientific GmbH  
www.polymun.com

The Tech Group  
www.techgroup.com

Xcelience  
www.xcelience.com  
See Company Profile

## DATA MANAGEMENT

Pharma Focus Israel  
www.pharmafocus.co.il

Symyx Technologies  
www.symyx.com

## DATA MONITORING

PPD  
www.ppd.com  
See Company Profile

## DEVICE DEVELOPMENT & MANUFACTURING

Alaeras  
www.alaeras.com

Bang & Olufsen Medicom  
www.medicomnordic.com

Bioject Medical Technologies Inc.  
www.bioject.com

Duoject Medical Systems Inc.  
www.duoject.com

Foster-Miller  
www.foster-miller.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Radius Product Development  
www.radiuspd.com

Sagentia  
www.sagentia.com

The Tech Group  
www.techgroup.com

Unilife Medical Solutions  
www.unilife.com  
See Company Profile

## DISCOVERY RESEARCH

Charles River  
www.criver.com

Cherry Instruments  
www.cherryinstruments.com

Radius Product Development  
www.radiuspd.com

Sagentia  
www.sagentia.com

Southern Research Institute  
www.southernresearch.org

Zyleris PharmaTech  
www.zyleris.com

## DISSOLUTION TESTING

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioVolutions  
www.bioevolutions.com

Boston Analytical, Inc.  
www.bostonanalytical.com

BRI Biopharmaceutical  
Research Inc.  
www.bripharm.com

Coating Place, Inc.  
www.encap.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

# CONTRACT SERVICES

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.pppi.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaq

SOLIQS  
www.soliqs.com

Sotax  
www.sotax.com

West Analytical Services  
www.WestAnalyticalServices.com

Xcelience  
www.xcelience.com  
See Company Profile

## DOCUMENTATION SUPPORT SERVICES

DPT  
www.dptlabs.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

PPD  
www.pppi.com  
See Company Profile

## DOSAGE FORM DEVELOPMENT

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Cirrus Pharmaceuticals, Inc.  
www.cirruspharm.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Emerson Resources, Inc.  
www.emersonresources.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Metrics, Inc.  
www.metricsinc.com

Omni Pharmaceutical  
www.omni-pharma.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Pharmatek Laboratories, Inc.  
www.pharmatek.com

PharmaZell Inc.  
www.pharmazell.com

PPD  
www.pppi.com  
See Company Profile

RiconPharma LLC  
www.riconpharma.com

SOLIQS  
Abbott GmbH & Co. KG  
www.soliqs.com

Xcelience  
www.xcelience.com  
See Company Profile

Zyleris PharmaTech  
www.zyleris.com

## DRUG DESIGN

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Rubicon Research Private  
Limited  
www.rubicon.co.in

## DRUG DEVELOPMENT SERVICES

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Bioject Medical Technologies  
Inc.  
www.bioject.com

BioConvergence LLC  
www.bioc.us

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Charles River  
www.criver.com

Cirrus Pharmaceuticals, Inc.  
www.cirruspharm.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Enavail  
www.enavail.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Formurex, Inc.  
www.formurex.com

GALENIX  
www.galenix.fr

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

ICON Development Solutions  
www.icondevsolutions.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaNova  
www.pharmanovaco.com

PPD  
www.pppi.com  
See Company Profile

RiconPharma LLC  
www.riconpharma.com

SOLIQS  
Abbott GmbH & Co. KG  
www.soliqs.com

Southern Research Institute  
www.southernresearch.org

Xcelience  
www.xcelience.com  
See Company Profile

## DRUG DISCOVERY SUPPORT SERVICES

Charles River  
www.criver.com

Zyleris PharmaTech  
www.zyleris.com

## ELECTRONIC DATA MANAGEMENT

De Novo Software  
www.denovosoftware.com

PPD  
www.pppi.com  
See Company Profile

Symyx Technologies  
www.symyx.com

## ENCAPSULATION

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioVolutions  
www.biovolutions.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Coating Place, Inc.  
www.encap.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

Xcelience  
www.xcelience.com  
See Company Profile

## EXTRACTABLES/ LEACHABLES TESTING

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Ciba Expert Services  
www.cibaexpertservices.com

Cirrus Pharmaceuticals, Inc.  
www.cirruspharm.com

Helvoet Pharma  
www.helvoetpharma.com

Irvine Pharmaceutical Services  
www.irvinepharma.com

PPD  
www.pppi.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaq

The Tech Group  
www.techgroup.com

West Analytical Services  
www.WestAnalyticalServices.com

# CONTRACT SERVICES

## FEASIBILITY STUDIES

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bang & Olufsen Medicom  
www.medicomnordic.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Enavail  
www.enavail.com

Evonik Industries - Pharma Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaNova  
www.pharmanovaco.com

PPD  
www.ppd.com  
See Company Profile

Rubicon Research Private Limited  
www.rubicon.co.in

Xcelience  
www.xcelience.com  
See Company Profile

## FERMENTATION

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Polymun Scientific GmbH  
www.polymun.com

## FILLING: AMPULE

Baxter Healthcare Corporation  
www.baxterbiopharmasolutions.com

Hospira One2One  
www.one2one.hospira.com

The University of Iowa Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

## FILLING: CAPSULES

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Coating Place, Inc.  
www.encap.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

Stason Pharmaceuticals Inc.  
www.stasonpharma.com

Xcelience  
www.xcelience.com  
See Company Profile

## FILLING: SYRINGE

Baxter Healthcare Corporation  
www.baxterbiopharmasolutions.com

Cook Pharmica  
www.cookpharmica.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Hospira One2One  
www.one2one.hospira.com

Hyaluron Contract Manufacturing  
www.hyaluron.com

The University of Iowa Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

Vetter Pharma-Fertigung GmbH & Co. KG  
www.vetter-pharma.com

## FILLING: VIALS

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Baxter Healthcare Corporation  
www.baxterbiopharmasolutions.com

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Cook Pharmica  
www.cookpharmica.com

Enzon Pharmaceuticals, Inc.  
www.enzon.com

Hospira One2One  
www.one2one.hospira.com

Hyaluron Contract Manufacturing  
www.hyaluron.com

OctoPlus N.V.  
www.octoplus.nl

Vetter Pharma-Fertigung GmbH & Co. KG  
www.vetter-pharma.com

## FILTRATION TESTING & CERTIFICATION

PPD  
www.ppd.com  
See Company Profile

## FLUID BED PROCESSING

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Coating Place, Inc.  
www.encap.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Huber Engineered Materials  
www.hubermaterials.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## FORMULATION DEVELOPMENT

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioConvergence LLC  
www.bioc.us

Bioject Medical Technologies Inc.  
www.bioject.com

BioVolutions  
www.bioevolutions.com

BRI Biopharmaceutical Research Inc.  
www.bripharm.com

Capsugel, a Division of Pfizer  
www.capsugel.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Cirrus Pharmaceuticals, Inc.  
www.cirruspharm.com

Coating Place, Inc.  
www.encap.com

Cook Pharmica  
www.cookpharmica.com

Dow Pharmaceutical Sciences, Inc.  
www.dowpharmsci.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

FormuMax Scientific, Inc  
www.LiposomeExpert.com

Formurex, Inc.  
www.formurex.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Irvine Pharmaceutical Services  
www.irvinepharma.com

Metrics, Inc  
www.metricsinc.com

Northern Lipids Inc  
www.northernlipids.com

OctoPlus N.V.  
www.octoplus.nl

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaNova  
www.pharmanovaco.com

Pharmatek Laboratories, Inc.  
www.pharmatek.com

PharmaZell Inc.  
www.pharmazell.com

PPD  
www.ppd.com  
See Company Profile

Primera Analytical Solutions  
www.David.Jones@Primera-Corp.com

RiconPharma LLC  
www.riconpharma.com

Rubicon Research Private Limited  
www.rubicon.co.in

SCOLR Pharma, Inc.  
www.scolr.com

SOLIQS  
Abbott GmbH & Co. KG  
www.soliqs.com

# CONTRACT SERVICES

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

Xcelience  
www.xcelience.com  
See Company Profile

Zyleris PharmaTech  
www.zyleris.com

## FORMULATION SERVICES

Bilcare Research  
www.Bilcare.com

BioConvergence LLC  
www.bioc.us

Bioject Medical Technologies Inc.  
www.bioject.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

FormuMax Scientific, Inc  
www.LiposomeExpert.com

Formurex, Inc.  
www.formurex.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Hyaluron Contract Manufacturing  
www.hyaluron.com

Omni Pharmaceutical  
www.omni-pharma.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

SCOLR Pharma, Inc.  
www.scolr.com

SOLIQS  
Abbott GmbH & Co. KG  
www.solisqs.com

Stason Pharmaceuticals Inc.  
www.stasonpharma.com

Xcelience  
www.xcelience.com  
See Company Profile

Zyleris PharmaTech  
www.zyleris.com

## GENETIC TESTING

Charles River  
www.criver.com

## GMP AUDITING

Hovione  
www.Hovione.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

## GMP/GLP MANUFACTURING

American Peptide Company, Inc.  
www.americanpeptide.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Enavail  
www.enavail.com

Enzon Pharmaceuticals, Inc.  
www.enzon.com

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Formurex, Inc.  
www.formurex.com

GALENIX  
www.galenix.fr

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Northern Lipids Inc  
www.northernlipids.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Polymun Scientific GmbH  
www.polymun.com

The Tech Group  
www.techgroup.com

Xcelience  
www.xcelience.com  
See Company Profile

## GRANULATION

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Coating Place, Inc.  
www.encap.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Huber Engineered Materials  
www.hubermaterials.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## HIGH THROUGHPUT SCREENING

Southern Research Institute  
www.southernresearch.org

## HPLC

American Peptide Company, Inc.  
www.americanpeptide.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Boston Analytical, Inc.  
www.bostonanalytical.com

Cherry Instruments  
www.cherryinstruments.com

Exemplar Pharma LLC  
www.exemplarpharm.com

FormuMax Scientific, Inc  
www.LiposomeExpert.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

West Analytical Services  
www.WestAnalyticalServices.com

## IMAGING

Charles River  
www.criver.com

Exemplar Pharma LLC  
www.exemplarpharm.com

## IMMUNOBIOLOGY SERVICES

ICON Development Solutions  
www.icondevsolutions.com

PPD  
www.ppd.com  
See Company Profile

## IMMUNOTOXICITY TESTING

PPD  
www.ppd.com  
See Company Profile

## IND/NDA SUBMISSIONS

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

## INFORMATICS

Symyx Technologies  
www.symyx.com

## IN VITRO TESTING

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

BioVolutions  
www.biovolutions.com

Dow Pharmaceutical Sciences, Inc.  
www.dowpharmsci.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

PPD  
www.ppd.com  
See Company Profile

# CONTRACT SERVICES

Sotax  
www.sotax.com

Zyleris PharmaTech  
www.zyleris.com

## IN VIVI TESTING

PPD  
www.ppd.com  
See Company Profile

## LIQUID DOSAGE FORMS

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Capsugel, a Division of Pfizer  
www.capsugel.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Exemplar Pharma LLC  
www.exemplarpharm.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

## LOGISTICS & DISTRIBUTION SERVICES

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioConvergence LLC  
www.bioc.us

## LYOPHILIZATION

American Peptide Company, Inc.  
www.americanpeptide.com

Baxter Healthcare Corporation  
www.baxterbiopharmasolutions.com

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioConvergence LLC  
www.bioc.us

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Cook Pharmica  
www.cookpharmica.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Hospira One2One  
www.one2one.hospira.com

Hyaluron Contract Manufacturing  
www.hyaluron.com

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

Vetter Pharma-Fertigung GmbH  
& Co. KG  
www.vetter-pharma.com

## MACHINERY, DESIGN & CONSTRUCTION

Foster-Miller  
www.foster-miller.com

## MANUFACTURING, ASEPTIC FILL/FINISH

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Hospira One2One  
www.one2one.hospira.com

Hyaluron Contract Manufacturing  
www.hyaluron.com

## MANUFACTURING, APIs

American Peptide Company, Inc.  
www.americanpeptide.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Cambrex  
www.cambrex.com

Cook Pharmica  
www.cookpharmica.com

Enavail  
www.enavail.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaZell Inc.  
www.pharmazell.com

Xcelience  
www.xcelience.com  
See Company Profile

## MANUFACTURING, CLINICAL TRIALS MATERIALS

Almac Group  
www.almacgroup.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Capsugel, a Division of Pfizer  
www.capsugel.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Emerson Resources, Inc.  
www.emersonresources.com

Enavail  
www.enavail.com

Evonik Industries - Pharma Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Metrics, Inc.  
www.metricsinc.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Pharmatek Laboratories, Inc.  
www.pharmatek.com

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

Xcelience  
www.xcelience.com  
See Company Profile

## MANUFACTURING, CLINICAL TRIALS SUPPLIES

Almac Group  
www.almacgroup.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Enavail  
www.enavail.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Evonik Industries - Pharma Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Formurex, Inc.  
www.formurex.com

Hovione  
www.Hovione.com  
See Company Profile

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaZell Inc.  
www.pharmazell.com

Xcelience  
www.xcelience.com  
See Company Profile

## MANUFACTURING: CONTRACT

3M Drug Delivery Systems  
www.3M.com/dds  
See Company Profile

Aveva Drug Delivery Systems, Inc.  
www.avevadds.com  
See Company Profile

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Enavail  
www.enavail.com

Enzon Pharmaceuticals, Inc.  
www.enzon.com

Eurand  
www.eurand.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Filtertek Inc.  
www.filtertek.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

# CONTRACT SERVICES

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hospira One2One  
www.one2one.hospira.com

Hovione  
www.Hovione.com  
See Company Profile

Huber Engineered Materials  
www.hubermaterials.com

Hyaluron Contract Manufacturing  
www.hyaluron.com

LTS Lohmann Therapie-  
Systeme AG  
www.ltslohmann.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

The Tech Group  
www.techgroup.com

Xcelience  
www.xcelience.com  
See Company Profile

## MANUFACTURING: CONTROLLED SUBSTANCES

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Cambrex  
www.cambrex.com

Coating Place, Inc.  
www.encap.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Emerson Resources, Inc  
www.emersonresources.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Metrics, Inc  
www.metricsinc.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaZell Inc.  
www.pharmazell.com

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

Xcelience  
www.xcelience.com  
See Company Profile

## MANUFACTURING: CREAMS & OINTMENTS

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

DPT  
www.dptlabs.com  
See Company Profile

Emerson Resources, Inc  
www.emersonresources.com

Hovione  
www.Hovione.com  
See Company Profile

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## MANUFACTURING: LIQUIDS

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Exemplar Pharma LLC  
www.exemplarpharm.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## MANUFACTURING: PARENTERALS

Bang & Olufsen Medicom  
www.medicomnordic.com

Cook Pharmica  
www.cookpharmica.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Enzon Pharmaceuticals, Inc.  
www.enzon.com

Hospira One2One  
www.one2one.hospira.com

Hovione  
www.Hovione.com  
See Company Profile

Hyaluron Contract Manufacturing  
www.hyaluron.com

Northern Lipids Inc  
www.northernlipids.com

OctoPlus N.V.  
www.octoplus.nl

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

Vetter Pharma-Fertigung GmbH  
& Co. KG  
www.vetter-pharma.com

## MANUFACTURING: PEPTIDES/PROTEINS

American Peptide Company, Inc.  
www.americanpeptide.com

Cook Pharmica  
www.cookpharmica.com

Enavail  
www.enavail.com

Genzyme Pharmaceuticals  
www.genzyme pharmaceuticals.com

PolyPeptide Laboratories, Inc  
www.polypeptide.com

## MANUFACTURING: POWDERS

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Coating Place, Inc.  
www.encap.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## MANUFACTURING: SEMI-SOLIDS

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

DPT  
www.dptlabs.com  
See Company Profile

Hovione  
www.Hovione.com  
See Company Profile

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## MANUFACTURING: SOFT GELS

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Particle Sciences  
www.particlesciences.com

## MANUFACTURING: SOLID DOSAGE

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Coating Place, Inc.  
www.encap.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Emerson Resources, Inc  
www.emersonresources.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Mastix Medica LLC  
www.mastixmedica.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Pharmatek Laboratories, Inc.  
www.pharmatek.com

PharmaZell Inc.  
www.pharmazell.com

Stason Pharmaceuticals Inc.  
www.stasonpharma.com

Xcelience  
www.xcelience.com  
See Company Profile

## MANUFACTURING: SOLUTIONS & SUSPENSIONS

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Coating Place, Inc.  
www.encap.com

# CONTRACT SERVICES

DPT  
www.dptlabs.com  
See Company Profile

Emerson Resources, Inc  
www.emersonresources.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Hospira One2One  
www.one2one.hospira.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## MANUFACTURING: SUSTAINED RELEASE

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Coating Place, Inc.  
www.encap.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

OctoPlus N.V.  
www.octoplus.nl

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaZell Inc.  
www.pharmazell.com

PURAC biomaterials  
www.puracbiomaterials.com

## MANUFACTURING: SYRINGES, PREFILLED

Hospira One2One  
www.one2one.hospira.com

Hyaluron Contract Manufacturing  
www.hyaluron.com

Unilife Medical Solutions  
www.unilife.com  
See Company Profile

## MANUFACTURING: TABLETS

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Coating Place, Inc.  
www.encap.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Emerson Resources, Inc  
www.emersonresources.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Mastix Medica LLC  
www.mastixmedica.com

Metrics, Inc  
www.metricsinc.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Stason Pharmaceuticals Inc.  
www.stasonpharma.com

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

## MANUFACTURING: TOPICALS

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

DPT  
www.dptlabs.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Hovione  
www.Hovione.com  
See Company Profile

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## MANUFACTURING: TRANSDERMAL

3M Drug Delivery Systems  
www.3M.com/dds  
See Company Profile

Corium International, Inc.  
www.coriumgroup.com

LTS Lohmann Therapie-  
Systeme AG  
www.ltslohmann.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## MATERIALS ANALYSIS

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Ciba Expert Services  
www.cibaexpertservices.com

Hovione  
www.Hovione.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

West Analytical Services  
www.WestAnalyticalServices.com

## METHODS DEVELOPMENT

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioVolutions  
www.biovolutions.com

Boston Analytical, Inc.  
www.bostonanalytical.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Cherry Instruments  
www.cherryinstruments.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Exemplar Pharma LLC  
www.exemplarpharm.com

FormuMax Scientific, Inc  
www.LiposomeExpert.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Irvine Pharmaceutical Services  
www.irvinepharma.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Pharmatek Laboratories, Inc.  
www.pharmatek.com

PPD  
www.ppd.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

West Analytical Services  
www.WestAnalyticalServices.com

Xcelience  
www.xcelience.com  
See Company Profile

## METHODS VALIDATION

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Boston Analytical, Inc.  
www.bostonanalytical.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Irvine Pharmaceutical Services  
www.irvinepharma.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

West Analytical Services  
www.WestAnalyticalServices.com

Xcelience  
www.xcelience.com  
See Company Profile

## MICROBIOLOGICAL TESTING

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Boston Analytical, Inc.  
www.bostonanalytical.com

# CONTRACT SERVICES

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Irvine Pharmaceutical Services  
www.irvinepharma.com

Hovione  
www.Hovione.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

## MICROENCAPSULATION

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

BioVolutions  
www.bioevolutions.com

Coating Place, Inc.  
www.encap.com

Cospheric LLC  
www.cospheric-  
microspheres.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Particle Sciences  
www.particlesciences.com

## MICRONIZATION

Cambrex  
www.cambrex.com

Coating Place, Inc.  
www.encap.com

Cospheric LLC  
www.cospheric-  
microspheres.com

FormuMax Scientific, Inc  
www.LiposomeExpert.com

Hovione  
www.Hovione.com  
See Company Profile

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## MICROSCOPIC ANALYSIS

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

## PACKAGING: BLISTER

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Compass Pharma Services  
www.compasspharma.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Mastix Medica LLC  
www.mastixmedica.com

## PACKAGING: CAPSULES

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Compass Pharma Services  
www.compasspharma.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Stason Pharmaceuticals Inc.  
www.stasonpharma.com

Xcelience  
www.xcelience.com  
See Company Profile

## PACKAGING CLINICAL

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioConvergence LLC  
www.bioc.us

## PACKAGING: CLINICAL TRIALS MATERIALS

Almac Group  
www.almacgroup.com

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Rubicon Research Private Limited  
www.rubicon.co.in

Xcelience  
www.xcelience.com  
See Company Profile

## PACKAGING: CONTRACT

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Compass Pharma Services  
www.compasspharma.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

GALENIX  
www.galenix.fr

Xcelience  
www.xcelience.com  
See Company Profile

## PACKAGING: CREAMS & OINTMENTS

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

DPT  
www.dptlabs.com  
See Company Profile

Xcelience  
www.xcelience.com  
See Company Profile

## PACKAGING: DEVELOPMENT

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

DPT  
www.dptlabs.com  
See Company Profile

Pfeiffer of America  
www.pfeiffer-group.com

Radius Product Development  
www.radiuspd.com

Vetter Pharma-Fertigung GmbH  
& Co. KG  
www.vetter-pharma.com

Xcelience  
www.xcelience.com  
See Company Profile

## PACKAGING: FORM/FILL/SEAL

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

## PACKAGING: INJECTABLES

BD Medical - Pharmaceutical  
Systems  
www.bd.com/pharmaceuticals  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Helvoet Pharma  
www.helvoetpharma.com

Safety Syringes Inc.  
www.safetysyringes.com

## PACKAGING: LIQUIDS

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Pfeiffer of America  
www.pfeiffer-group.com

Vetter Pharma-Fertigung GmbH  
& Co. KG  
www.vetter-pharma.com

Xcelience  
www.xcelience.com  
See Company Profile

## PACKAGING: PARENTERALS

BD Medical - Pharmaceutical  
Systems  
www.bd.com/pharmaceuticals  
See Company Profile

Cook Pharmica  
www.cookpharmica.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Helvoet Pharma  
www.helvoetpharma.com

## PACKAGING: POWDERS

Alaeras  
www.alaeras.com

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Compass Pharma Services  
www.compasspharma.com

Exemplar Pharma LLC  
www.exemplarpharm.com

## PACKAGING RFID LABELING

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

## PACKAGING: SOLID DOSAGE

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Mastix Medica LLC  
www.mastixmedica.com



# CONTRACT SERVICES

Stason Pharmaceuticals Inc.  
www.stasonpharma.com

## PACKAGING: UNIT DOSAGE

BD Medical - Pharmaceutical  
Systems  
www.bd.com/pharmaceuticals  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

Stason Pharmaceuticals Inc.  
www.stasonpharma.com

## PARENTERALS ANALYSIS

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

West Analytical Services  
www.WestAnalyticalServices.com

## PARENTERALS: DEVELOPMENT

BioConvergence LLC  
www.bioc.us

Cirrus Pharmaceuticals, Inc.  
www.cirruspharm.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaNova  
www.pharmanovaco.com

Vetter Pharma-Fertigung GmbH  
& Co. KG  
www.vetter-pharma.com

## PARENTERALS: VIAL FILLING

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Enzon Pharmaceuticals, Inc.  
www.enzon.com

Hospira One2One  
www.one2one.hospira.com

Hyaluron Contract Manufacturing  
www.hyaluron.com

## PARTICLE-SIZE ANALYSIS

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioVolutions  
www.bioevolutions.com

Boston Analytical, Inc.  
www.bostonanalytical.com

Cirrus Pharmaceuticals, Inc.  
www.cirruspharm.com

Coating Place, Inc.  
www.encap.com

FormuMax Scientific, Inc.  
www.LiposomeExpert.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

## PARTICLE SIZE CHARACTERIZATION

Azopharma Product  
Development Group  
www.azopharma.com

Coating Place, Inc.  
www.encap.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

## PRECLINICAL STUDY DESIGN

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Charles River  
www.criver.com

PPD  
www.ppd.com  
See Company Profile

## PRECLINICAL TESTING

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioVolutions  
www.bioevolutions.com

PPD  
www.ppd.com  
See Company Profile

## PREFILLABLE SYRINGES

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Hyaluron Contract Manufacturing  
www.hyaluron.com

Safety Syringes Inc.  
www.safetysyringes.com

## PREFORMULATION

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioVolutions  
www.bioevolutions.com

BRI Biopharmaceutical  
Research Inc.  
www.bripharm.com

Cirrus Pharmaceuticals, Inc.  
www.cirruspharm.com

DPT  
www.dptlabs.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Hovione  
www.Hovione.com  
See Company Profile

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Pharmatek Laboratories, Inc.  
www.pharmatek.com

PharmaNova  
www.pharmanovaco.com

PPD  
www.ppd.com  
See Company Profile

RiconPharma LLC  
www.riconpharma.com

Rubicon Research Private  
Limited  
www.rubicon.co.in

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

Xcelience  
www.xcelience.com  
See Company Profile

Zyleris PharmaTech  
www.zyleris.com

## PROCESS ANALYTICAL TECHNOLOGY (PAT)

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

## PROCESS DEVELOPMENT & SCALE-UP SERVICES

BioConvergence LLC  
www.bioc.us

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

FormuMax Scientific, Inc  
www.LiposomeExpert.com

Foster-Miller  
www.foster-miller.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Hyaluron Contract  
Manufacturing  
www.hyaluron.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaZell Inc.  
www.pharmazell.com

RiconPharma LLC  
www.riconpharma.com

# CONTRACT SERVICES

Xcelience  
www.xcelience.com  
See Company Profile

## PROCESS R&D

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

RiconPharma LLC  
www.riconpharma.com

Xcelience  
www.xcelience.com  
See Company Profile

## PROCESS VALIDATION STUDIES

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

Xcelience  
www.xcelience.com  
See Company Profile

## PROTEIN ANALYSIS

BioConvergence LLC  
www.bioc.us

PPD  
www.ppdi.com  
See Company Profile

## QA/QC

American Peptide Company, Inc.  
www.americanpeptide.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Boston Analytical, Inc.  
www.bostonanalytical.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppdi.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

## R&D SERVICES

Aveva Drug Delivery Systems, Inc.  
www.avevadds.com  
See Company Profile

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Boston Analytical, Inc.  
www.bostonanalytical.com  
Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

FormuMax Scientific, Inc  
www.LiposomeExpert.com

Foster-Miller  
www.foster-miller.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Particle Sciences  
www.particlesciences.com

PPD  
www.ppdi.com  
See Company Profile

Radius Product Development  
www.radiuspd.com

Spraying Systems Co.  
www.spray.com

Xcelience  
www.xcelience.com  
See Company Profile

## RAW MATERIAL ANALYSIS

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Boston Analytical, Inc.  
www.bostonanalytical.com

BRI Biopharmaceutical  
Research Inc.  
www.bripharm.com

Coating Place, Inc.  
www.encap.com

Hovione  
www.Hovione.com  
See Company Profile

Irvine Pharmaceutical Services  
www.irvinepharma.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppdi.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

## REGULATORY

American Peptide Company, Inc.  
www.americanpeptide.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Cambrex  
www.cambrex.com

Charles River  
www.criver.com

Ciba Expert Services  
www.cibaexpertservices.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

GALENIX  
www.galenix.fr

Hovione  
www.Hovione.com  
See Company Profile

ICON Development Solutions  
www.icondevsolutions.com

Pharma Focus Israel  
www.pharmafocus.co.il

PPD  
www.ppdi.com  
See Company Profile

Rubicon Research Private  
Limited  
www.rubicon.co.in

Xcelience  
www.xcelience.com  
See Company Profile

## RESEARCH, CONTRACT

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Charles River  
www.criver.com

DPT  
www.dptlabs.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Foster-Miller  
www.foster-miller.com

GALENIX  
www.galenix.fr

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

# CONTRACT SERVICES

Particle Sciences  
www.particlesciences.com

PPD  
www.ppd.com  
See Company Profile

Spraying Systems Co.  
www.spray.com

Zyleris PharmaTech  
www.zyleris.com

## SCALE-UP

American Peptide Company, Inc.  
www.americanpeptide.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Cambrex  
www.cambrex.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Spraying Systems Co.  
www.spray.com

Stason Pharmaceuticals Inc.  
www.stasonpharma.com

Xcelience  
www.xcelience.com  
See Company Profile

## SEMI-SOLID DOSAGE FORMS

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Dow Pharmaceutical Sciences, Inc.  
www.dowpharmsci.com

DPT  
www.dptlabs.com  
See Company Profile

Hovione  
www.Hovione.com  
See Company Profile

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

Stason Pharmaceuticals Inc.  
www.stasonpharma.com

## SPRAY DRYING

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Coating Place, Inc.  
www.encap.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

Spraying Systems Co.  
www.spray.com

## STABILITY ICH

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

BioVolutions  
www.bioevolutions.com

Boston Analytical, Inc.  
www.bostonanalytical.com

BRI Biopharmaceutical  
Research Inc.  
www.bripharm.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

Rubicon Research Private  
Limited  
www.rubicon.co.in

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

## STABILITY STORAGE

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

BioConvergence LLC  
www.bioc.us

Boston Analytical, Inc.  
www.bostonanalytical.com

Compass Pharma Services  
www.compasspharma.com

Coating Place, Inc.  
www.encap.com

Cook Pharmica  
www.cookpharmica.com

Dow Pharmaceutical Sciences, Inc.  
www.dowpharmsci.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Irvine Pharmaceutical Services  
www.irvinepharma.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Pharmatek Laboratories, Inc.  
www.pharmatek.com

PPD  
www.ppd.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

## STABILITY STUDIES

American Peptide Company, Inc.  
www.americanpeptide.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

BioConvergence LLC  
www.bioc.us

BioVolutions  
www.bioevolutions.com

Boston Analytical, Inc.  
www.bostonanalytical.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Cirrus Pharmaceuticals, Inc.  
www.cirruspharm.com

Coating Place, Inc.  
www.encap.com

Cook Pharmica  
www.cookpharmica.com

Dow Pharmaceutical Sciences, Inc.  
www.dowpharmsci.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Enzon Pharmaceuticals, Inc.  
www.enzon.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

The University of Iowa  
Pharmaceuticals  
www.pharmacy.uiowa.edu/uip

Xcelience  
www.xcelience.com  
See Company Profile

# CONTRACT SERVICES

## STERILE FILLING

BD Medical - Pharmaceutical Systems  
www.bd.com/pharmaceuticals  
See Company Profile

Cook Pharmica  
www.cookpharmica.com

DPT  
www.dptlabs.com  
See Company Profile

Enzon Pharmaceuticals, Inc.  
www.enzon.com

## STERILITY TESTING

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Boston Analytical, Inc.  
www.bostonanalytical.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Enzon Pharmaceuticals, Inc.  
www.enzon.com

Hovione  
www.Hovione.com  
See Company Profile

PPD  
www.ppdi.com  
See Company Profile

## SUPPLY CHAIN MANAGEMENT

Alaeras  
www.alaeras.com

BioConvergence LLC  
www.bioc.us

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

GALENIX  
www.galenix.fr

The Tech Group  
www.techgroup.com

## SYRINGE FILLING

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Vetter Pharma-Fertigung GmbH & Co. KG  
www.vetter-pharma.com

## TABLET COATING

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Coating Place, Inc.  
www.encap.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Mastix Medica LLC  
www.mastixmedica.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaZell Inc.  
www.pharmazell.com

SOLIQS  
Abbott GmbH & Co. KG  
www.soliqs.com

Spraying Systems Co.  
www.spray.com

## TECHNOLOGY TRANSFER

Coating Place, Inc.  
www.encap.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Hovione  
www.Hovione.com  
See Company Profile

Pacific Biometrics, Inc.  
www.pacbio.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppdi.com  
See Company Profile

Rubicon Research Private Limited  
www.rubicon.co.in

## TOXICOLOGY TESTING

Hovione  
www.Hovione.com  
See Company Profile

PPD  
www.ppdi.com  
See Company Profile

## TRANSMUCOSAL FILMS

LTS Lohmann Therapie-Systeme AG  
www.ltslohmann.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

SOLIQS  
Abbott GmbH & Co. KG  
www.soliqs.com

## VALIDATION SERVICES

Bilcare Global Clinical Supplies  
www.BilcareGCS.com

Boston Analytical, Inc.  
www.bostonanalytical.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Ciba Expert Services  
www.cibaexpertservices.com

Coating Place, Inc.  
www.encap.com

DPT  
www.dptlabs.com  
See Company Profile

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Hovione  
www.Hovione.com  
See Company Profile

Pacific Biometrics, Inc.  
www.pacbio.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppdi.com  
See Company Profile

SGS Life Science Services  
www.sgs.com/pharmaqc

Xcelience  
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Cliff Davidson, Esq.

Davidson, Davidson & Kappel, LLC

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Telephone: (212) 736-1940

E-mail: [cdaidson@ddkpatent.com](mailto:cdaidson@ddkpatent.com)

Visit our website: [www.ddkpatent.com](http://www.ddkpatent.com)

# DRUG DELIVERY TECHNOLOGIES

## ADHESIVES

Adhesives Research  
www.adhesivesresearch.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Corium International, Inc.  
www.coriumgroup.com

Henkel Corporation (National  
Adhesives)  
www.transdermaladhesives.com

NuSil Technology  
www.nusil.com  
See Company Profile

## AEROSOLS

Activaero America, Inc.  
www.activaero.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Direct-Haler A/S  
www.directhaler.com

DuPont  
www2.dupont.com/Dymel\_Phar  
maceutical/en\_US/

INEOS Fluor  
www.zephex.com

Lablabo  
www.lablabo.com

MedInvent LLC  
www.nasoneb.com

PPD  
www.ppd.com  
See Company Profile

## ANTIADHERENTS

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

## AUTOINJECTION

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Bioject Medical Technologies Inc.  
www.bioject.com

Bang & Olufsen Medicom  
www.medicomnordic.com

Elcam Medical  
www.elcam-medical.com

Meridian Medical Technologies, Inc.  
www.meridianmeds.com

Safety Syringes Inc.  
www.safetysyringes.com

Ypsomed AG  
www.ypsomed.com

## BIODEGRADABLES

DSM Biomedical  
www.biomedicalmaterials.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

KITOZYME  
www.kitozyme.com

Nanomi  
www.nanomi.com

NanoVentures Australia Ltd  
www.nvaustralia.com.au

## BIOMATERIALS

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

DSM Biomedical  
www.biomedicalmaterials.com

KITOZYME  
www.kitozyme.com

PURAC biomaterials  
www.puracbiomaterials.com

## BLOOD BRAIN BARRIER

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

MedInvent LLC  
www.nasoneb.com

to-BBB technologies BV  
www.tobbb.com

## BUCCAL

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Camurus  
www.camurus.com

CIMA Labs Inc.  
www.cimalabs.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Henkel Corporation (National  
Adhesives)  
www.transdermaladhesives.com

Mastix Medica LLC  
www.mastixmedica.com

PH&T  
www.phtpharma.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

SOLIQS  
Abbott GmbH & Co. KG  
www.soliqs.com

## CAPSULES

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Capsugel, a Division of Pfizer  
www.capsugel.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Henkel Corporation (National  
Adhesives)  
www.transdermaladhesives.com

INNERCAP Technologies Inc.  
www.innercap.com  
See Company Profile

MicroDose Therapeutx, Inc.  
www.mdtx.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

Qualicaps Group  
www.qualicaps.com

## CARDIOVASCULAR

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

CJ Cheil Jedang Corporation  
english.cj.net

DSM Biomedical  
www.biomedicalmaterials.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Sagentia  
www.sagentia.com

SoluBest  
www.solubest.com

## CATHETER

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Delcath Systems, Inc.  
www.delcath.com

## CENTRAL NERVOUS SYSTEM (CNS)

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

CJ Cheil Jedang Corporation  
english.cj.net

Direct-Haler A/S  
www.directhaler.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Genzyme Pharmaceuticals  
www.genzyme pharmaceuticals.com

to-BBB technologies BV  
www.tobbb.com

## CHEWABLE

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Balchem Corporation  
www.balchem.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Mastix Medica LLC  
www.mastixmedica.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

SPI Pharma  
www.spipharma.com

## COATINGS

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Balchem Corporation  
www.balchem.com

# DRUG DELIVERY TECHNOLOGIES

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

PURAC biomaterials  
www.puracbiomaterials.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## COLON

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

## CONTROLLED RELEASE

Aveva Drug Delivery Systems, Inc.  
www.avevadds.com  
See Company Profile

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Camurus  
www.camurus.com

Balchem Corporation  
www.balchem.com

BASF Corporation  
www.pharma-  
solutions.basf.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

CIMA Labs Inc.  
www.cimalabs.com

Colorcon  
www.colorcon.com

DSM Biomedical  
www.biomedicalmaterials.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Henkel Corporation (National  
Adhesives)  
www.transdermaladhesives.com

INNERCAP Technologies Inc.  
www.innercap.com  
See Company Profile

Isis Biopolymer, Inc.  
www.isisbiopolymer.com

LifeCycle Pharma  
www.lcpharma.com  
See Company Profile

Nanomi  
www.nanomi.com

Nanotherapeutics, Inc.  
www.nanotherapeutics.com

NanoVentures Australia Ltd  
www.nvaustralia.com.au

NuSil Technology  
www.nusil.com  
See Company Profile

OctoPlus N.V.  
www.octoplus.nl

Pantec Biosolutions AG  
www.pantec-biosolutions.com

Penwest Pharmaceuticals Co.  
www.penwest.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaIN Corp  
www.pharmain.com

Philips Research  
www.research.philips.com/TIPS

PURAC biomaterials  
www.puracbiomaterials.com

RiconPharma LLC  
www.riconpharma.com

Rubicon Research Private  
Limited  
www.rubicon.co.in

SCOLR Pharma, Inc.  
www.scolr.com

Sharmatek, Inc.  
www.stk-inc.net

Skinvisible Pharmaceuticals, Inc.  
www.skinvisible.com and  
www.invisicare.com

TransPharma Medical Ltd.  
www.transpharma-medical.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## DISINTEGRANTS

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

BASF Corporation  
www.pharma-  
solutions.basf.com

International Specialty Products  
www.ispcorp.com

## DRUG TARGETING

Activaero America, Inc.  
www.activaero.com

Delcath Systems, Inc.  
www.delcath.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Henkel Corporation (National  
Adhesives)  
www.transdermaladhesives.com

INNERCAP Technologies Inc.  
www.innercap.com  
See Company Profile

KITOZYME  
www.kitozyme.com

NanoVentures Australia Ltd  
www.nvaustralia.com.au

PharmaIN Corp  
www.pharmain.com

PharmaNova  
www.pharmanovaco.com

PURAC biomaterials  
www.puracbiomaterials.com

## DRUG-ELUTING STENTS

PURAC biomaterials  
www.puracbiomaterials.com

## DRY POWDER INHALERS

Astech Projects  
www.astechprojects.com

Bang & Olufsen Medicom  
www.medicomnordic.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Direct-Haler A/S  
www.directhaler.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Henkel Corporation (National  
Adhesives)  
www.transdermaladhesives.com

MicroDose Therapeutx, Inc.  
www.mdtx.com

PH&T  
www.phtpharma.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Radius Product Development  
www.radiuspd.com

Rexam Pharma  
www.rexam.com/pharma

The Tech Group  
www.techgroup.com

## ELECTROPORATION

Inovio Biomedical Corporation  
www.inovio.com

## ENCAPSULATION

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Balchem Corporation  
www.balchem.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Colorcon  
www.colorcon.com

DSM Biomedical  
www.biomedicalmaterials.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

INNERCAP Technologies Inc.  
www.innercap.com  
See Company Profile

Nanomi  
www.nanomi.com

Nanotherapeutics, Inc.  
www.nanotherapeutics.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Philips Research  
www.research.philips.com/TIPS

PURAC biomaterials  
www.puracbiomaterials.com

# DRUG DELIVERY TECHNOLOGIES

## EPIDERMAL

Pantec Biosolutions AG  
www.pantec-biosolutions.com

## EXCIPIENTS

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

BASF Corporation  
www.pharma-solutions.basf.com

Cydex Pharmaceuticals, Inc  
www.cydexpharma.com  
See Company Profile

DuPont  
www2.dupont.com/Dymel\_Pharmaceutical/en\_US/

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Gattefossé USA  
www.gattefossecorp.com

Genzyme Pharmaceuticals  
www.genzyme pharmaceuticals.com

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

Huber Engineered Materials  
www.hubermaterials.com

INEOS Fluor  
www.zephex.com

Mallinckrodt Baker, Inc.  
www.mallbaker.com

PURAC biomaterials  
www.puracbiomaterials.com

Xcelience  
www.xcelience.com  
See Company Profile

## EXTENDED RELEASE

Aveva Drug Delivery Systems, Inc.  
www.avevadds.com  
See Company Profile

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Balchem Corporation  
www.balchem.com

Colorcon  
www.colorcon.com

DSM Biomedical  
www.biomedicalmaterials.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

INNERCAP Technologies Inc.  
www.innercap.com  
See Company Profile

LifeCycle Pharma  
www.lcpharma.com  
See Company Profile

OctoPlus N.V.  
www.octoplus.nl

Penwest Pharmaceuticals Co.  
www.penwest.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaIN Corp  
www.pharmain.com

PURAC biomaterials  
www.puracbiomaterials.com

RiconPharma LLC  
www.riconpharma.com

SCOLR Pharma, Inc.  
www.scolr.com

Skinvisible Pharmaceuticals, Inc.  
www.skinvisible.com and  
www.invisicare.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## FAST MELT

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## FAST DISSOLVING

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Balchem Corporation  
www.balchem.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

CIMA Labs Inc.  
www.cimalabs.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

LTS Lohmann Therapie-Systeme AG  
www.ltslohmann.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

SPI Pharma  
www.spipharma.com

## FILM TECHNOLOGY

Adhesives Research  
www.adhesivesresearch.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Colorcon  
www.colorcon.com

Corium International, Inc.  
www.coriumgroup.com

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

LTS Lohmann Therapie-Systeme AG  
www.ltslohmann.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

SOLIQS  
www.solliqs.com

## FLAVORING

Eurand  
www.eurand.com  
See Company Profile

Mastix Medica LLC  
www.mastixmedica.com

## GASTRO RETENTIVE

CJ Cheil Jedang Corporation  
english.cj.net

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

INNERCAP Technologies Inc.  
www.innercap.com  
See Company Profile

Penwest Pharmaceuticals Co.  
www.penwest.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

RiconPharma LLC  
www.riconpharma.com

## GENE THERAPY

CJ Cheil Jedang Corporation  
english.cj.net

Inovio Biomedical Corporation  
www.inovio.com

Philips Research  
www.research.philips.com/TIPS

## GENETIC DELIVERY SYSTEMS

CJ Cheil Jedang Corporation  
english.cj.net

Genzyme Pharmaceuticals  
www.genzyme pharmaceuticals.com

Inovio Biomedical Corporation  
www.inovio.com

KITOZYME  
www.kitozyme.com

Philips Research  
www.research.philips.com/TIPS

## GLIDANTS

Huber Engineered Materials  
www.hubermaterials.com

## HAND-HELD INJECTION

Bang & Olufsen Medicom  
www.medicomnordic.com

Bioject Medical Technologies Inc.  
www.bioject.com



# DRUG DELIVERY TECHNOLOGIES

BD Medical - Pharmaceutical Systems  
www.bd.com/pharmaceuticals  
See Company Profile

Duoject Medical Systems Inc.  
www.duoject.com

Elcam Medical  
www.elcam-medical.com

Gerresheimer AG  
www.gerresheimer.com

Glide Pharma  
www.glidepharma.com

Halozyne Therapeutics  
www.halozyne.com

Meridian Medical Technologies, Inc.  
www.meridianmeds.com

Ypsomed AG  
www.ypsomed.com

## HYDROGELS

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

DSM Biomedical  
www.biomedicalmaterials.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

## IMPLANTS

DSM Biomedical  
www.biomedicalmaterials.com

Nanotherapeutics, Inc.  
www.nanotherapeutics.com

NuSil Technology  
www.nusil.com  
See Company Profile

PharmaForm  
www.PharmaForm.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

## INHALATION

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bang & Olufsen Medicom  
www.medicomnordic.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Cydex Pharmaceuticals, Inc  
www.cydexpharma.com  
See Company Profile

Direct-Haler A/S  
www.directhaler.com

DuPont  
www2.dupont.com/Dymel\_Pharmaceutical/en\_US/

Elan Drug Technologies  
www.elandrugtechnologies.com

Enavail  
www.enavail.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

Hovione  
www.Hovione.com  
See Company Profile

INEOS Fluor  
www.zephex.com  
NanoVentures Australia Ltd  
www.nvaustralia.com.au

MedInvent LLC  
www.nasoneb.com

MicroDose Therapeutx, Inc.  
www.mdtx.com

Omni Pharmaceutical  
www.omni-pharma.com

PH&T  
www.phtpharma.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaNova  
www.pharmanovaco.com

PPD  
www.ppdi.com  
See Company Profile

Rexam Pharma  
www.rexam.com/pharma

The Tech Group  
www.techgroup.com

## INJECTABLE

Astech Projects  
www.astechprojects.com

Baxter Healthcare Corporation  
www.baxterbiopharmasolutions.com

BD Medical - Pharmaceutical Systems  
www.bd.com/pharmaceuticals  
See Company Profile

Bioject Medical Technologies Inc.  
www.bioject.com

Camurus  
www.camurus.com

CJ Cheil Jedang Corporation  
english.cj.net

Cydex Pharmaceuticals, Inc  
www.cydexpharma.com  
See Company Profile

DSM Biomedical  
www.biomedicalmaterials.com

DSM Pharmaceuticals  
www.dsmpharmachemicals.com

Duoject Medical Systems Inc.  
www.duoject.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Gerresheimer AG  
www.gerresheimer.com

Glide Pharma  
www.glidepharma.com

Halozyne Therapeutics  
www.halozyne.com

Helvoet Pharma  
www.helvoetpharma.com

Nanomi  
www.nanomi.com

PharmaIN Corp  
www.pharmain.com

PharmaNova  
www.pharmanovaco.com

PPD  
www.ppdi.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

Safety Syringes Inc.  
www.safetysyringes.com

Sagentia  
www.sagentia.com

The Tech Group  
www.techgroup.com

Unilife Medical Solutions  
www.unilife.com  
See Company Profile

Ypsomed AG  
www.ypsomed.com

## INTRAEPIDERMAL

Pantec Biosolutions AG  
www.pantec-biosolutions.com

PharmaIN Corp  
www.pharmain.com

## INTRAMUSCULAR

BD Medical - Pharmaceutical Systems  
www.bd.com/pharmaceuticals  
See Company Profile

Inovio Biomedical Corporation  
www.inovio.com  
Nanomi  
www.nanomi.com

PharmaIN Corp  
www.pharmain.com

PURAC biomaterials  
www.puracbiomaterials.com

Unilife Medical Solutions  
www.unilife.com  
See Company Profile

## INTRANASAL

Direct-Haler A/S  
www.directhaler.com

MedInvent LLC  
www.nasoneb.com

Pfeiffer of America  
www.pfeiffer-group.com

PH&T  
www.phtpharma.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaNova  
www.pharmanovaco.com

PPD  
www.ppdi.com  
See Company Profile

SoluBest  
www.solubest.com

## INTRAVENOUS

Camurus  
www.camurus.com

Delcath Systems, Inc.  
www.delcath.com

Duoject Medical Systems Inc.  
www.duoject.com

Filtertek Inc.  
www.filtertek.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

Halozyne Therapeutics  
www.halozyne.com

Nanomi  
www.nanomi.com

PharmaIN Corp  
www.pharmain.com

PURAC biomaterials  
www.puracbiomaterials.com

## IONTOPHORESIS

Isis Biopolymer, Inc.  
www.isisbiopolymer.com

# DRUG DELIVERY TECHNOLOGIES

Travanti Pharma Inc.  
www.travantipharma.com

## LASER-ASSISTED

Pantec Biosolutions AG  
www.pantec-biosolutions.com

## LIPIDS

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Camurus  
www.camurus.com

FormuMax Scientific, Inc.  
www.liposomeexpert.com

Gattefossé USA  
www.gattefossecorp.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

Nanomi  
www.nanomi.com

## LIPOSOMES

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

FormuMax Scientific, Inc.  
www.LiposomeExpert.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

Philips Research  
www.research.philips.com/TIPS

Polymun Scientific GmbH  
www.polymun.com

to-BBB technologies BV  
www.tobbb.com

## LYOPHILIZATION

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

CIMA Labs Inc.  
www.cimalabs.com

Helvoet Pharma  
www.helvoetpharma.com

Hospira One2One  
www.one2one.hospira.com

PharmaNova  
www.pharmanovaco.com

SPI Pharma  
www.spipharma.com

## METERED DOSE INHALERS

3M Drug Delivery Systems  
www.3M.com/dds  
See Company Profile

Astech Projects  
www.astechprojects.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Bang & Olufsen Medicom  
www.medicomnordic.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

DuPont  
www2.dupont.com/Dymel\_Pharmaceutical/en\_US/

Exemplar Pharma LLC  
www.exemplarpharm.com

INEOS Fluor  
www.zephex.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

## MICROPORATION

Corium International, Inc.  
www.coriumgroup.com

Janisys  
www.crospon.com

Pantec Biosolutions AG  
www.pantec-biosolutions.com

## MODIFIED RELEASE

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

CIMA Labs Inc.  
www.cimalabs.com

Colorcon  
www.colorcon.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

INNERCAP Technologies Inc.  
www.innercap.com  
See Company Profile

LifeCycle Pharma  
www.lcpharma.com  
See Company Profile

Penwest Pharmaceuticals Co.  
www.penwest.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

RiconPharma LLC  
www.riconpharma.com

SCOLR Pharma, Inc.  
www.scolr.com

Skinvisible Pharmaceuticals, Inc.  
www.skinvisible.com and  
www.invisicare.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## MONOCLONAL ANTIBODIES

BD Medical - Pharmaceutical Systems  
www.bd.com/pharmaceuticals  
See Company Profile

Halozyme Therapeutics  
www.halozyme.com

to-BBB technologies BV  
www.tobbb.com

## MUCOSAL

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Direct-Haler A/S  
www.directhaler.com

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

Mastix Medica LLC  
www.mastixmedica.com

MedInvent LLC  
www.nasoneb.com

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Skinvisible Pharmaceuticals, Inc.  
www.skinvisible.com and  
www.invisicare.com

SOLIQS  
www.solisqs.com

## NANOTECHNOLOGY

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Camurus  
www.camurus.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Hovione  
www.Hovione.com  
See Company Profile

LifeCycle Pharma  
www.lcpharma.com  
See Company Profile

Nanotherapeutics, Inc.  
www.nanotherapeutics.com

NanoVentures Australia Ltd  
www.nvaustralia.com.au

Particle Sciences  
www.particlesciences.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaIN Corp  
www.pharmain.com

PharmaNova  
www.pharmanovaco.com

PURAC biomaterials  
www.puracbiomaterials.com

SoluBest  
www.solubest.com

to-BBB technologies BV  
www.tobbb.com

## NASAL

Astech Projects  
www.astechprojects.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

BD Medical - Pharmaceutical Systems  
www.bd.com/pharmaceuticals  
See Company Profile

Camurus  
www.camurus.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

# DRUG DELIVERY TECHNOLOGIES

Cydex Pharmaceuticals, Inc  
www.cydexpharma.com  
See Company Profile

Direct-Haler A/S  
www.directhaler.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Omni Pharmaceutical  
www.omni-pharma.com

Pfeiffer of America  
www.pfeiffer-group.com

PPD  
www.ppd.com  
See Company Profile

Rexam Pharma  
www.rexam.com/pharma

Sagentia  
www.sagentia.com

## NEEDLE FREE

3M Drug Delivery Systems  
www.3M.com/dds  
See Company Profile

Bioject Medical Technologies Inc.  
www.bioject.com

Comar Inc  
www.comar.com

Corium International, Inc.  
www.coriumgroup.com

Filtertek Inc.  
www.filtertek.com

Glide Pharma  
www.glidepharma.com

MicroDose Therapeutx, Inc.  
www.mdtx.com

Nano Ventures Australia Ltd  
www.nvaustralia.com.au

Pantec Biosolutions AG  
www.pantec-biosolutions.com

PH&T  
www.phtpharma.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

Sagentia  
www.sagentia.com

The Tech Group  
www.techgroup.com

## OPHTHALMOLOGIC

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Camurus  
www.camurus.com

Comar Inc  
www.comar.com

Cydex Pharmaceuticals, Inc  
www.cydexpharma.com  
See Company Profile

Dow Pharmaceutical Sciences, Inc.  
www.dowpharmsci.com

DSM Biomedical  
www.biomedicalmaterials.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Pfeiffer of America  
www.pfeiffer-group.com

PharmaNova  
www.pharmanovaco.com

PURAC biomaterials  
www.puracbiomaterials.com

Rexam Pharma  
www.rexam.com/pharma

## ORAL DELIVERY

Adhesives Research  
www.adhesivesresearch.com

Astech Projects  
www.astechprojects.com

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Balchem Corporation  
www.balchem.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

CIMA Labs Inc.  
www.cimalabs.com

CJ Cheil Jedang Corporation  
english.cj.net

Comar Inc  
www.comar.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Emisphere Technologies, Inc.  
www.emisphere.com

Enavail  
www.enavail.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

INNERCAP Technologies Inc.  
www.innercap.com  
See Company Profile

LifeCycle Pharma  
www.lcpharma.com  
See Company Profile

Mallinckrodt Baker, Inc.  
www.mallbaker.com

Mastix Medica LLC  
www.mastixmedica.com

MicroDose Therapeutx, Inc.  
www.mdtx.com

Nanotherapeutics, Inc.  
www.nanotherapeutics.com

Penwest Pharmaceuticals Co.  
www.penwest.com

Pfeiffer of America  
www.pfeiffer-group.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

Radius Product Development  
www.radiuspd.com

Redpoint Bio Corporation  
www.redpointbio.com

Rexam Pharma  
www.rexam.com/pharma

Sagentia  
www.sagentia.com

SCOLR Pharma, Inc.  
www.scolr.com

SoluBest  
www.solubest.com

## ORAL DISINTEGRATING TABLETS (ODTs)

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

CIMA Labs Inc.  
www.cimalabs.com

CJ Cheil Jedang Corporation  
english.cj.net

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Huber Engineered Materials  
www.hubermaterials.com

Mallinckrodt Baker, Inc.  
www.mallbaker.com

Mastix Medica LLC  
www.mastixmedica.com

RiconPharma LLC  
www.riconpharma.com

Rubicon Research Private  
Limited  
www.rubicon.co.in

SPI Pharma  
www.spipharma.com

## PARENTERAL

Baxter Healthcare Corporation  
www.baxterbiopharmasolutions.com

BD Medical - Pharmaceutical  
Systems  
www.bd.com/pharmaceuticals  
See Company Profile

Camurus  
www.camurus.com

CJ Cheil Jedang Corporation  
english.cj.net

Duoject Medical Systems Inc.  
www.duoject.com

FormuMax Scientific, Inc  
www.LiposomeExpert.com

Glide Pharma  
www.glidepharma.com

Halozyme Therapeutics  
www.halozyme.com

Helvoet Pharma  
www.helvoetpharma.com

Hospira One2One  
www.one2one.hospira.com

Nanomi  
www.nanomi.com

Pantec Biosolutions AG  
www.pantec-biosolutions.com

PURAC biomaterials  
www.puracbiomaterials.com

Rexam Pharma  
www.rexam.com/pharma

Ypsomed AG  
www.ypsomed.com

## PARTICULATE

Direct-Haler A/S  
www.directhaler.com

Nanotherapeutics, Inc.  
www.nanotherapeutics.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## PATCH TECHNOLOGY

Aveva Drug Delivery Systems, Inc.  
www.avevadds.com  
See Company Profile

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

# DRUG DELIVERY TECHNOLOGIES

Corium International, Inc.  
www.coriumgroup.com

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

Janisys  
www.crospan.com

NanoVentures Australia Ltd  
www.nvaustralia.com.au

PharmaForm  
www.PharmaForm.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

TransPharma Medical Ltd.  
www.transpharma-medical.com

## PEGYLATION

Halozyne Therapeutics  
www.halozyne.com

PharmaIN Corp  
www.pharmain.com

PURAC biomaterials  
www.puracbiomaterials.com

to-BBB technologies BV  
www.tobbb.com

## PEPTIDES

Camurus  
www.camurus.com

CJ Cheil Jedang Corporation  
english.cj.net

Emisphere Technologies, Inc.  
www.emisphere.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

Halozyne Therapeutics  
www.halozyne.com

MicroDose Therapeutx, Inc.  
www.mdtx.com

PharmaIN Corp  
www.pharmain.com

PURAC biomaterials  
www.puracbiomaterials.com

SoluBest  
www.solubest.com

Zosano Pharma  
www.zosanopharma.com

## POLYMERS & BIOMATERIALS

Elan Drug Technologies  
www.elandrugtechnologies.com

Evonik Industries - Pharma Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

KITOZYME  
www.kitozyme.com

NuSil Technology  
www.nusil.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

Skinvisible Pharmaceuticals, Inc.  
www.skinvisible.com and  
www.invisicare.com

## POWDERED DOSE INHALERS

Astech Projects  
www.astechprojects.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Direct-Haler A/S  
www.directhaler.com

Exemplar Pharma LLC  
www.exemplarpharm.com

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

MicroDose Therapeutx, Inc.  
www.mdtx.com

Nanotherapeutics, Inc.  
www.nanotherapeutics.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

Rexam Pharma  
www.rexam.com/pharma

## PRESSURE-SENSITIVE ADHESIVES

Adhesives Research  
www.adhesivesresearch.com

Aveva Drug Delivery Systems, Inc.  
www.avevadds.com  
See Company Profile

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

NuSil Technology  
www.nusil.com  
See Company Profile

## PROTEINS

CJ Cheil Jedang Corporation  
english.cj.net

DSM Biomedical  
www.biomedicalmaterials.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Emisphere Technologies, Inc.  
www.emisphere.com

Enavail  
www.enavail.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

Glide Pharma  
www.glidepharma.com

Halozyne Therapeutics  
www.halozyne.com

MicroDose Therapeutx, Inc.  
www.mdtx.com

PharmaIN Corp  
www.pharmain.com

PURAC biomaterials  
www.puracbiomaterials.com

SoluBest  
www.solubest.com

Zosano Pharma  
www.zosanopharma.com

## PULMONARY

3M Drug Delivery Systems  
www.3M.com/dds  
See Company Profile

Activaero America, Inc.  
www.activaero.com

Astech Projects  
www.astechprojects.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Direct-Haler A/S  
www.directhaler.com

DuPont  
www2.dupont.com/Dymel\_Pharmaceutical/en\_US/

Exemplar Pharma LLC  
www.exemplarpharm.com

Hovione  
www.Hovione.com  
See Company Profile

INEOS Fluor  
www.zephex.com

MicroDose Therapeutx, Inc.  
www.mdtx.com

NanoVentures Australia Ltd  
www.nvaustralia.com.au

Omni Pharmaceutical  
www.omni-pharma.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PPD  
www.ppd.com  
See Company Profile

Rexam Pharma  
www.rexam.com/pharma

Sagentia  
www.sagentia.com

The Tech Group  
www.techgroup.com

## PULSATILE

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

INNERCAP Technologies Inc.  
www.innercap.com  
See Company Profile

Sharmatek, Inc.  
www.stk-inc.net

## RECTAL

Lablabo  
www.lablabo.com

## RESPIRATORY

3M Drug Delivery Systems  
www.3M.com/dds  
See Company Profile

Activaero America, Inc.  
www.activaero.com

Astech Projects  
www.astechprojects.com

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

CJ Cheil Jedang Corporation  
english.cj.net

Direct-Haler A/S  
www.directhaler.com

DuPont  
www2.dupont.com/Dymel\_Pharmaceutical/en\_US/

Exemplar Pharma LLC  
www.exemplarpharm.com

Hovione  
www.Hovione.com  
See Company Profile

INEOS Fluor  
www.zephex.com

MedInvent LLC  
www.nasonex.com

MicroDose Therapeutx, Inc.  
www.mdtx.com

Nanotherapeutics, Inc.  
www.nanotherapeutics.com

Omni Pharmaceutical  
www.omni-pharma.com

PH&T  
www.phtpharma.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## SiRNA

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

PharmaIN Corp  
www.pharmain.com

Philips Research  
www.research.philips.com/TIPS

## SITE SPECIFIC

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

PharmaIN Corp  
www.pharmain.com

Philips Research  
www.research.philips.com/TIPS

## SOLID DOSAGE

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Glide Pharma  
www.glidepharma.com

LifeCycle Pharma  
www.lcpharma.com  
See Company Profile

Mallinckrodt Baker, Inc.  
www.mallbaker.com

Mastix Medica LLC  
www.mastixmedica.com

MicroDose Therapeutx, Inc.  
www.mdtx.com

Omni Pharmaceutical  
www.omni-pharma.com

Penwest Pharmaceuticals Co.  
www.penwest.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Qualicaps Group  
www.qualicaps.com

SCOLR Pharma, Inc.  
www.scolr.com

SOLIQS  
www.soliqs.com

SoluBest  
www.solubest.com

## SOLID DOSE INJECTION

Astech Projects  
www.astechprojects.com

Glide Pharma  
www.glidepharma.com

Janisys  
www.crospon.com

PURAC biomaterials  
www.puracbiomaterials.com

## SORBENTS

Multisorb Technologies  
www.multisorb.com

## STEM CELL DELIVERY

CJ Cheil Jedang Corporation  
english.cj.net

Philips Research  
www.research.philips.com/TIPS

## STENTS

PURAC biomaterials  
www.puracbiomaterials.com

## SUBCUTANEOUS

BD Medical - Pharmaceutical  
Systems  
www.bd.com/pharmaceuticals  
See Company Profile

Camurus  
www.camurus.com

Duobject Medical Systems Inc.  
www.duobject.com

Glide Pharma  
www.glidepharma.com

Halozyme Therapeutics  
www.halozyme.com

Pantec Biosolutions AG  
www.pantec-biosolutions.com

PURAC biomaterials  
www.puracbiomaterials.com

Safety Syringes Inc.  
www.safetysyringes.com

Unilife Medical Solutions  
www.unilife.com  
See Company Profile

## SUSTAINED RELEASE

Aveva Drug Delivery Systems, Inc.  
www.avevadds.com  
See Company Profile

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Balchem Corporation  
www.balchem.com

Camurus  
www.camurus.com

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

DSM Biomedical  
www.biomedicalmaterials.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

LifeCycle Pharma  
www.lcpharma.com  
See Company Profile

NanoVentures Australia Ltd  
www.nvaustralia.com.au

Omni Pharmaceutical  
www.omni-pharma.com

Pantec Biosolutions AG  
www.pantec-biosolutions.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

RiconPharma LLC  
www.riconpharma.com

Skinvisible Pharmaceuticals, Inc.  
www.skinvisible.com and  
www.invisicare.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## TASTE-MASKING

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Balchem Corporation  
www.balchem.com

CIMA Labs Inc.  
www.cimalabs.com

Cydex Pharmaceuticals, Inc  
www.cydexpharma.com  
See Company Profile

Eurand  
www.eurand.com  
See Company Profile

Elan Drug Technologies  
www.elandrugtechnologies.com

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Exemplar Pharma LLC  
www.exemplarpharm.com

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

Mastix Medica LLC  
www.mastixmedica.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

Redpoint Bio Corporation  
www.redpointbio.com

RiconPharma LLC  
www.riconpharma.com

SPI Pharma  
www.spipharma.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## TIME RELEASED

Azopharma Product  
Development Group  
www.azopharma.com  
See Company Profile

Catalent Pharma Solutions  
www.catalent.com  
See Company Profile

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

# DRUG DELIVERY TECHNOLOGIES

Glatt Pharmaceutical Services  
www.glattpharmaceuticals.com

LifeCycle Pharma  
www.lcpharma.com  
See Company Profile

Penwest Pharmaceuticals Co.  
www.penwest.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

## TOPICAL

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Camurus  
www.camurus.com

Dow Pharmaceutical Sciences, Inc.  
www.dowpharmsci.com

Exemplar Pharma LLC  
www.exemplarpharm.com

FormuMax Scientific, Inc.  
www.liposomeexpert.com

Gattefossé USA  
www.gattefossecorp.com

MedInvent LLC  
www.nasoneb.com

Nanotherapeutics, Inc.  
www.nanotherapeutics.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PharmaNova  
www.pharmanovaco.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## TRANSDERMAL

3M Drug Delivery Systems  
www.3M.com/dds  
See Company Profile

Adhesives Research  
www.adhesivesresearch.com

Altea Therapeutics Corporation  
www.alteatherapeutics.com

Aveva Drug Delivery Systems, Inc.  
www.avevadds.com  
See Company Profile

Azopharma Product Development Group  
www.azopharma.com  
See Company Profile

Camurus  
www.camurus.com

Corium International, Inc.  
www.coriumgroup.com

Evonik Industries - Pharma Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

Inovio Biomedical Corporation  
www.inovio.com

Isis Biopolymer, Inc.  
www.isisbiopolymer.com

Janisys  
www.crospon.com

LTS Lohmann Therapie-Systeme AG  
www.ltslohmann.com

MicroDose Therapeutx, Inc.  
www.mdtx.com

NanoVentures Australia Ltd  
www.nvaustralia.com.au

Noven Pharmaceuticals, Inc.  
www.noven.com

NuSil Technology  
www.nusil.com  
See Company Profile

Pantec Biosolutions AG  
www.pantec-biosolutions.com

Pfeiffer of America  
www.pfeiffer-group.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

Rexam Pharma  
www.rexam.com/pharma

RiconPharma LLC  
www.riconpharma.com

TransPharma Medical Ltd.  
www.transpharma-medical.com

Travanti Pharma Inc.  
www.travantipharma.com

Zosano Pharma  
www.zosanopharma.com

## TRANSMUCOSAL

CIMA Labs Inc.  
www.cimalabs.com

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

Mastix Medica LLC  
www.mastixmedica.com

MedInvent LLC  
www.nasoneb.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

## TUMOR TARGETING

CJ Cheil Jedang Corporation  
english.cj.net

Delcath Systems, Inc.  
www.delcath.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

Nanomi  
www.nanomi.com

PharmaIN Corp  
www.pharmain.com

Philips Research  
www.research.philips.com/TIPS

to-BBB technologies BV  
www.tobbb.com

## VACCINES

BD Medical - Pharmaceutical Systems  
www.bd.com/pharmaceuticals  
See Company Profile

CJ Cheil Jedang Corporation  
english.cj.net

Direct-Haler A/S  
www.directhaler.com

Inovio Biomedical Corporation  
www.inovio.com

NanoVentures Australia Ltd  
www.nvaustralia.com.au

Safety Syringes Inc.  
www.safetysyringes.com

Sagentia  
www.sagentia.com

Unilife Medical Solutions  
www.unilife.com  
See Company Profile

Zosano Pharma  
www.zosanopharma.com

## VAGINAL

Camurus  
www.camurus.com

Gattefossé USA  
www.gattefossecorp.com

Glide Pharma  
www.glidepharma.com

Lablabo  
www.lablabo.com

Henkel Corporation (National Adhesives)  
www.transdermaladhesives.com

PharmaForm  
www.PharmaForm.com  
See Company Profile

*Visit our online  
Global Resource Directory at  
www.drugdeliverytech.com*

## APIs

BASF Corporation  
www.pharma-  
ingredients.basf.com

DSM Pharmaceuticals  
www.dsmpharmaceuticals.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

NuSil Technology  
www.nusil.com  
See Company Profile

## AQUEOUS

Cydex Pharmaceuticals, Inc  
www.cydexpharma.com  
See Company Profile

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

The Dow Chemical Company  
www.dow.com

## BINDERS

Asahi Kasei America, Inc.  
www.ceolus.com

BASF Corporation  
www.pharma-  
ingredients.basf.com

Colorcon  
www.colorcon.com

FMC BioPolymer  
www.fmcbiopolymer.com

International Specialty Products  
www.ispcorp.com

JRS Pharma LP  
www.jrspharma.com

The Dow Chemical Company  
www.dow.com

## BIODEGRADABLE

DSM Biomedical  
www.biomedicalmaterials.com

Gattefossé USA  
www.gattefossecorp.com

PURAC biomaterials  
www.puracbiomaterials.com

Sasol Olefins & Surfactants  
www.sasolos.com

## BIOMATERIALS

PURAC biomaterials  
www.puracbiomaterials.com

## CAPSULES

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

FMC BioPolymer  
www.fmcbiopolymer.com

PURAC biomaterials  
www.puracbiomaterials.com

Sasol Olefins & Surfactants  
www.sasolos.com

## COATINGS

Asahi Kasei America, Inc.  
www.ceolus.com

BASF Corporation  
www.pharma-  
ingredients.basf.com

Emerson Resources, Inc  
www.emersonresources.com

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

FMC BioPolymer  
www.fmcbiopolymer.com

International Specialty Products  
www.ispcorp.com

PURAC biomaterials  
www.puracbiomaterials.com

Roquette America  
www.roquette.com

The Dow Chemical Company  
www.dow.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## COATING SYSTEMS

Colorcon  
www.colorcon.com

Enavail  
www.enavail.com

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

International Specialty Products  
www.ispcorp.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## CONTROLLED RELEASE

Asahi Kasei America, Inc.  
www.ceolus.com

BASF Corporation  
www.pharma-  
ingredients.basf.com

Colorcon  
www.colorcon.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

FMC BioPolymer  
www.fmcbiopolymer.com

NuSil Technology  
www.nusil.com  
See Company Profile

Penwest Pharmaceuticals Co.  
www.penwest.com

PURAC biomaterials  
www.puracbiomaterials.com

The Dow Chemical Company  
www.dow.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## DIRECT COMPRESSIBLE AIDS

Asahi Kasei America, Inc.  
www.ceolus.com

BASF Corporation  
www.pharma-solutions.basf.com

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Gattefossé USA  
www.gattefossecorp.com

International Specialty Products  
www.ispcorp.com

Mallinckrodt Baker, Inc.  
www.mallbaker.com

Roquette America  
www.roquette.com

## DISINTEGRANTS

Asahi Kasei America, Inc.  
www.ceolus.com

BASF Corporation  
www.pharma-  
ingredients.basf.com

FMC BioPolymer  
www.fmcbiopolymer.com

International Specialty Products  
www.ispcorp.com

JRS Pharma LP  
www.jrspharma.com

The Dow Chemical Company  
www.dow.com

Mallinckrodt Baker, Inc.  
www.mallbaker.com

## EMULSIFIERS

Gattefossé USA  
www.gattefossecorp.com

Sasol Olefins & Surfactants  
www.sasolos.com

Stepan Company  
www.stepan.com

## ENTERIC

BASF Corporation  
www.pharma-  
ingredients.basf.com

Colorcon  
www.colorcon.com

Enavail  
www.enavail.com

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

International Specialty Products  
www.ispcorp.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## EXCIPIENTS

Asahi Kasei America, Inc.  
www.ceolus.com

BASF Corporation  
www.pharma-  
ingredients.basf.com

Croda Health Care - USA  
www.crodausa.com

Dow Chemical  
www.dow.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

FMC BioPolymer  
www.fmcbiopolymer.com

Gattefossé USA  
www.gattefossecorp.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

International Specialty Products  
www.ispcorp.com

Mallinckrodt Baker, Inc.  
www.mallbaker.com

# EXCIPIENTS, POLYMERS, LIPOSOMES, LIPIDS & COATINGS

Paulaur Corp  
www.paulaur.com

PURAC biomaterials  
www.puracbiomaterials.com

Roquette America  
www.roquette.com

Sasol Olefins & Surfactants  
www.sasolos.com

SPI Pharma  
www.spipharma.com

Stepan Company  
www.stepan.com

The Dow Chemical Company  
www.dow.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## FAST-DISSOLVE

BASF Corporation  
www.pharma-  
ingredients.basf.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

FMC BioPolymer  
www.fmcbiopolymer.com

Roquette America  
www.roquette.com

SPI Pharma  
www.spipharma.com

## FILLERS/DILUENTS

JRS Pharma LP  
www.jrspharma.com

Roquette America  
www.roquette.com

## FILM

Colorcon  
www.colorcon.com

Dow Chemical  
www.dow.com

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
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PURAC biomaterials  
www.puracbiomaterials.com

The Dow Chemical Company  
www.dow.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## FLAVORS & COLORS

Colorcon  
www.colorcon.com

## HYDROGELS

PURAC biomaterials  
www.puracbiomaterials.com

## LIPIDS

Croda Health Care - USA  
www.crodausa.com

FormuMax Scientific, Inc.  
www.liposomeexpert.com

Gattefossé USA  
www.gattefossecorp.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

PURAC America  
www.purac.com

Sasol Olefins & Surfactants  
www.sasolos.com

Stepan Company  
www.stepan.com

## LIPOSOMES

FormuMax Scientific, Inc  
www.LiposomeExpert.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

Northern Lipids Inc  
www.northernlipids.com

Polymun Scientific GmbH  
www.polymun.com

## LUBRICANTS

Gattefossé USA  
www.gattefossecorp.com

Sasol Olefins & Surfactants  
www.sasolos.com

## MICROCRYSTALLINE CELLULOSE

Colorcon  
www.colorcon.com

FMC BioPolymer  
www.fmcbiopolymer.com

JRS Pharma LP  
www.jrspharma.com

## ODOR-MASKING

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

## PEGYLATION

PURAC biomaterials  
www.puracbiomaterials.com

## PEPTIDES

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

PURAC biomaterials  
www.puracbiomaterials.com

## PHOSPHOLIPIDS

FormuMax Scientific, Inc  
www.LiposomeExpert.com

Genzyme Pharmaceuticals  
www.genzymepharmaceuticals.com

## POLYMERS

BASF Corporation  
www.pharma-  
ingredients.basf.com

Dow Chemical  
www.dow.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
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Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

International Specialty Products  
www.ispcorp.com

PURAC biomaterials  
www.puracbiomaterials.com

## POLYOLS

Roquette America  
www.roquette.com

## POLYSACCHARIDES

KITOZYME  
www.kitozyme.com

## POLYVINYLPIRROLIDONE

BASF Corporation  
www.pharma-  
ingredients.basf.com

International Specialty Products  
www.ispcorp.com

## POWDERS

BASF Corporation  
www.pharma-  
ingredients.basf.com

Dow Chemical  
www.dow.com

## PROPELLANTS

DuPont  
www2.dupont.com/Dymel\_Pharmaceutical/en\_US/

INEOS Fluor  
www.zephex.com

## PROTEINS

PURAC biomaterials  
www.puracbiomaterials.com

Roquette America  
www.roquette.com

Visit our online  
Global Resource Directory at  
[www.drugdeliverytech.com](http://www.drugdeliverytech.com)



## QUICK-DISSOLVE

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Roquette America  
www.roquette.com

SPI Pharma  
www.spipharma.com

Gattefossé USA  
www.gattefossecorp.com

KITOZYME  
www.kitozyme.com

PURAC biomaterials  
www.puracbiomaterials.com

The Dow Chemical Company  
www.dow.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## SOLUBILIZERS

BASF Corporation  
www.pharma-  
ingredients.basf.com

Croda Health Care - USA  
www.crodausa.com

Cydex Pharmaceuticals, Inc  
www.cydexpharma.com  
See Company Profile

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Gattefossé USA  
www.gattefossecorp.com

## SWEETENERS

Asahi Kasei America, Inc.  
www.ceolus.com

## TABLETS

Asahi Kasei America, Inc.  
www.ceolus.com

BASF Corporation  
www.pharma-  
ingredients.basf.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

PURAC biomaterials  
www.puracbiomaterials.com

## SOLVENTS

BASF Corporation  
www.pharma-solutions.basf.com

Croda Health Care - USA  
www.crodausa.com

Elan Drug Technologies  
www.elandrugtechnologies.com

Eurand  
www.eurand.com  
See Company Profile

Gattefossé USA  
www.gattefossecorp.com

PURAC biomaterials  
www.puracbiomaterials.com

Sasol Olefins & Surfactants  
www.sasolos.com

## SUSTAINED RELEASE

BASF Corporation  
www.pharma-  
ingredients.basf.com

Colorcon  
www.colorcon.com

Eurand  
www.eurand.com  
See Company Profile

Evonik Industries - Pharma  
Polymers  
www.eudragit.com/drugdelivery  
See Company Profile

Gattefossé USA  
www.gattefossecorp.com

The Dow Chemical Company  
www.dow.com

Mallinckrodt Baker, Inc.  
www.mallbaker.com

Roquette America  
www.roquette.com

Vikram Thermo India Ltd  
www.drugcoat.weebly.com

## BLOW-FILL-SEAL

Weiler Engineering  
www.weilerengineering.com

## CALORIMETRY TESTING EQUIPMENT

Shimadzu Scientific Instruments  
www.ssi.shimadzu.com

## CAPSULE FILLING

Capsugel, a Division of Pfizer  
www.capsugel.com

## CHROMATOGRAPHY SYSTEMS

Shimadzu Scientific Instruments  
www.ssi.shimadzu.com

## DISSOLUTION EQUIPMENT

Logan Instruments Corporation  
www.loganinstruments.com

Sotax  
www.sotax.com

## DOSING SYSTEMS

Bausch Advanced Technologies,  
Inc.  
www.bausch-group.com

## EXTRUSION

LCI Corporation  
www.lcicorp.com

Northern Lipids Inc  
www.northernlipids.com

## FORM-FILL-SEAL

Bausch Advanced Technologies,  
Inc.  
www.bausch-group.com

## GC/MS SYSTEMS

Shimadzu Scientific Instruments  
www.ssi.shimadzu.com

## HPLC

Shimadzu Scientific Instruments  
www.ssi.shimadzu.com

## LIQUID FILLING & SEALING MACHINES

Bausch Advanced Technologies,  
Inc.  
www.bausch-group.com

Capsugel, a Division of Pfizer  
www.capsugel.com

## MASS SPECTROMETERS

Shimadzu Scientific Instruments  
www.ssi.shimadzu.com

## MICRO-DOSING SYSTEMS

Capsugel, a Division of Pfizer  
www.capsugel.com

## PARTICLE SIZING EQUIPMENT

NETZSCH Fine Particle  
Technology, LLC  
www.netzschusa.com

Shimadzu Scientific Instruments  
www.ssi.shimadzu.com

## QA/QC EQUIPMENT

Shimadzu Scientific Instruments  
www.ssi.shimadzu.com

## SOFTWARE

Shimadzu Scientific Instruments  
www.ssi.shimadzu.com

## SOLID DOSAGE EQUIPMENT

LCI Corporation  
www.lcicorp.com

## SPECTROMETERS

Shimadzu Scientific Instruments  
www.ssi.shimadzu.com

## TABLET TESTING SYSTEMS

Logan Instruments Corporation  
www.loganinstruments.com

Sotax  
www.sotax.com

# TECHNOLOGY Showcase

## MDI COMPONENTS

*Enabling your success*

### **3M Drug Delivery Systems**

3M Drug Delivery Systems has been a major supplier of metered-dose inhaler valves and canisters for more than 50 years. As the developers of the first CFC-free MDI, we are experienced at overcoming the challenges that designing components for use with CFC-free propellants presents. 3M is the only MDI component supplier that manufactures both valves and canisters, allowing optimization of these components simultaneously, ensuring compatibility, while delivering the convenience of a single source. For more information, contact 3M Drug Delivery Systems at (800) 643-8086 or visit [www.3M.com/dds](http://www.3M.com/dds).

## LICENSING OPPORTUNITIES



Aveva has numerous products for license from its development pipeline along with a full complement of R&D capabilities to produce transdermal drug delivery systems that fortify R&D pipelines and maximize product life cycles. Aveva Drug Delivery Systems is one of the world's largest manufacturers of and a pioneer in transdermal drug delivery systems of providing pharmaceutical partners with fully integrated, controlled-release transdermal products that fulfill unmet market needs. Products for licensing include Sufentanil, Fentanyl, Clonidine, and Nicotine. For more information, contact Robert Bloder, VP of Business Development, at (954) 624-1374 or visit [www.avevadds.com](http://www.avevadds.com).

## DEVELOPMENT SERVICES



Azopharma Product Development Group, The Total Product Development Company™, is dedicated to providing clients with comprehensive product development services from discovery through commercialization. Azopharma maximizes communication and minimizes downtime by bundling services from key sections of the drug development process, including the Preclinical, CMC, and Clinical phases. Our capabilities include Full NCE Development, Full IND Development, Full NDA Development, Full ANDA Development, and Full Medical Device Development. Whether it's a stand-alone service or a comprehensive program, Azopharma has the solution to fit your needs! Our group of companies includes Azopharma Contract Pharmaceutical Services, AniClin Preclinical Services, and AvivoClin Clinical Services. For more information, contact Azopharma Product Development Group at (954) 433-7480, [development@azopdogroup.com](mailto:development@azopdogroup.com), or visit [www.azopharma.com](http://www.azopharma.com).

## PREFILLABLE DELIVERY SYSTEMS



BD Medical - Pharmaceutical Systems is dedicated to developing prefilled drug delivery systems designed to fit the needs of the pharmaceutical industry. BD offers

a range of products, including glass and plastic prefilled syringes, a nasal spray system, and a variety of self-injection systems. We deliver cost-effective alternatives to conventional drug delivery methods, which differentiate pharmaceutical products and contribute to the optimization of drug therapy. With a broad range of innovative systems and services, BD provides pharmaceutical companies with support and resources to help them achieve their goals. Our worldwide presence, market awareness, and pharmaceutical packaging know-how allow us to propose suitable solutions for all regional markets and parenteral drug delivery needs. Only BD offers the range and depth of expertise and packaging solutions to guide your drug from early phase development through product launch and beyond. For more information, contact BD at (201) 847-4017 or visit [www.bd.com/pharmaceuticals](http://www.bd.com/pharmaceuticals).

# TECHNOLOGY Showcase

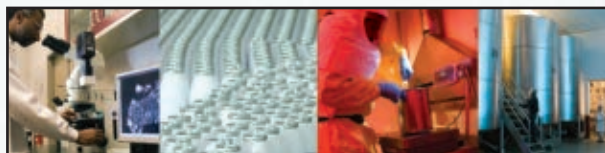
## SPECIALTY PHARMA



CyDex Pharmaceuticals, Inc. is a specialty pharmaceutical company focused on the development and commercialization of drugs specifically designed to address limitations of current therapies in selected

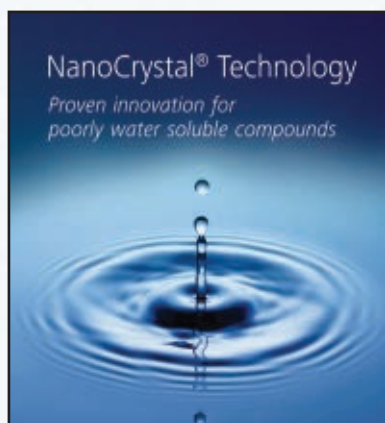
established markets. We have developed a portfolio of product candidates utilizing our drug formulation technology (Captisol® cyclodextrins), which are a patent protected, specifically modified family of cyclodextrins designed to improve solubility, stability, bioavailability, safety, and/or dosing of a number of APIs. To maximize our internal resources, experience, and technology, we are focusing on the development and commercialization of product candidates for use in the acute care hospital setting. For those product candidates that likely will entail more extensive development and commercialization efforts, we partner with established pharma companies. We also outlicense our Captisol technology to third parties. For more information, contact CyDex at (913) 685-8850 or visit [www.cydexpharma.com](http://www.cydexpharma.com).

## DEVELOPMENT & MANUFACTURING



DPT is a contract development and manufacturing organization (CDMO) specializing in semi-solid and liquid dosage forms. DPT provides fully integrated development, manufacturing, and packaging solutions for biopharmaceutical and pharmaceutical products. DPT is the industry source for semi-solid and liquids — from concept to commercialization and beyond. Drug development services range from preformulation, formulation and biopharmaceutical development, analytical development, and validation through process development. Production capabilities include four cGMP facilities, clinical trial materials, full-scale commercial production, controlled substance registration Class II-V, and complete supply chain management. Packaging services encompass engineering and procurement resources necessary for conventional and specialized packaging. For more information, contact DPT at (866) CALL-DPT or visit [www.dptlabs.com](http://www.dptlabs.com).

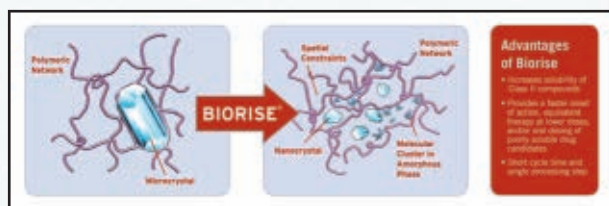
## DRUG ENABLEMENT



Elan Drug Technologies' NanoCrystal® technology is a drug enablement and optimization technology applicable to poorly water-soluble compounds. Improved bioavailability provided by the NanoCrystal technology can result in the following benefits: increased rate of absorption, reduction in fed/fasted variability, improved dose

proportionality, rapid formulation development, and reduction in required dose with smaller and more convenient dosage forms. Five products incorporating the technology are now launched in over 100 markets worldwide with over \$1.8 billion in market sales achieved in 2008. With over 1,300 patents/patent applications worldwide, it has been optimized and simplified from over 15 years in development. Applicable to all dosage forms, it has been manufactured at commercial scale since 2001. For more information on our range of technology solutions, contact Elan Drug Technologies at [edtbusdev@elan.com](mailto:edtbusdev@elan.com) or visit [www.elandrugtechnologies.com](http://www.elandrugtechnologies.com).

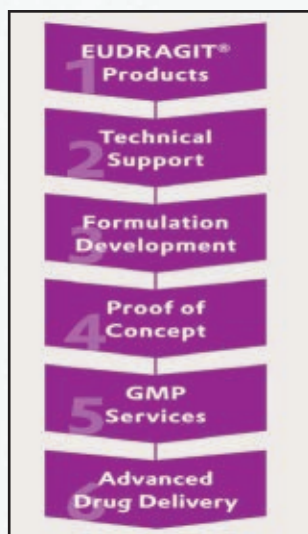
## BIOAVAILABILITY ENHANCEMENT



Biorise® increases the “intrinsic dissolution rate” of poorly water-soluble drugs, thereby enhancing their bioavailability and/or onset of action. Eurand's proprietary Biorise and Diffucaps® technologies can be applied to enable formulation of insoluble drugs and to improve the rate and extent of absorption of drugs from oral dosage forms. Diffucaps is a multiparticulate system that provides flexible dosage strength, required PK profile, and optimal release profiles for single drugs and drug combinations. The Diffucaps drug-release system can also be used in combination with other Eurand technologies to enhance drug solubility in the GI tract. For more information, visit Eurand at [www.eurand.com](http://www.eurand.com) or email us at [partners@eurand.com](mailto:partners@eurand.com).

# TECHNOLOGY Showcase

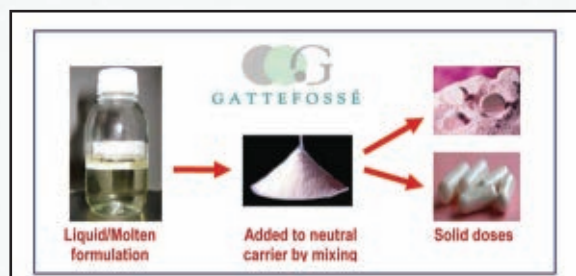
## PHARMA POLYMERS



Evonik Industries is a global market leader in specialty chemicals, offering a broad portfolio of products and services to meet the drug delivery challenges of the pharmaceutical market. Evonik Pharma Polymers manufactures EUDRAGIT® acrylic polymers used for enteric, sustained-release, and protective formulations. The unique functionality of EUDRAGIT polymers can also meet high sophisticated drug delivery requirements (eg, pulsed drug release). We have adapted our services to meet the requirements of the pharmaceutical industry's value chain. As a result, we are able to support our customers in the development

process to bring products safely and quickly to the market. From excipients supply to the development of custom tailored drug delivery solutions, our customers benefit from our knowledge and expertise. For more information, contact Evonik Degussa Corp., Pharma Polymers at (732) 981-5383 or visit [www.eudragit.com](http://www.eudragit.com).

## SOLVENT-FREE ADSORPTION



Designed for enhancing the solubility of poorly soluble drugs in solid dosage forms, this technique allows the transformation of liquid or semi-solid lipid formulations into solid particles that can subsequently be filled into hard shell capsules or alternatively compressed into tablets. The active may be dissolved or dispersed in the formulation prior to adsorption onto a solid neutral carrier, such as calcium silicate, with the aid of conventional mixers. The success of the technique depends much upon the properties of the carrier, notably its flow characteristics and capacity to absorb the desired amount of formulation. Our laboratory has successfully loaded up to 68% liquid SELF onto solid support. For more information, contact Ron Permutt of Gattefosse at (201) 265-4800 or visit [www.gattefosse.com](http://www.gattefosse.com).

## MANUFACTURER & API SPECIALIST



Hovione is an international group dedicated to the cGMP development and manufacture of APIs, serving exclusively the pharmaceutical industry. With FDA-inspected plants in Europe, the Far East, and the US, Hovione is committed to the highest levels of service and quality.

With a 50-year track-record, Hovione offers advanced technologies as well as APIs for all drug delivery systems, from oral to injectable and from inhalation to topical applications. Specializing in complex chemistry and particle engineering, Hovione offers all services related to the development, manufacture, and preformulation of both NCEs and existing APIs for off-patent products. Our aim is to do well what is difficult, to give our customers what they cannot find elsewhere. For more information, visit Hovione at [www.hovione.com](http://www.hovione.com).

## COMBINATION CAPSULE TECHNOLOGY

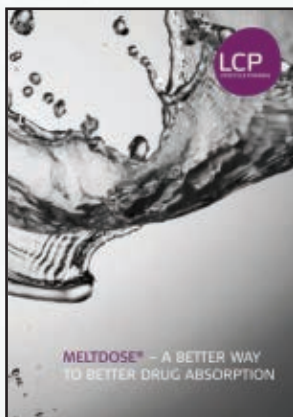


InnerCap offers an advanced patent-pending multi-phased, multi-compartmentalized capsular-based delivery system. The system can be used to enhance the value and benefits of pharmaceutical and biopharmaceutical products. Utilizing two-piece hard shell capsules, the technology offers the industry solutions to problems affecting pharmaceutical companies, patients, and healthcare providers. The delivery system will be licensed to enhance pharmaceutical and biopharmaceutical products. It

is a very effective way to deliver multiple active chemical compounds in different physical phases with controlled-release profiles. The delivery system provides the pharmaceutical and biopharmaceutical industries with beneficial solutions to the industry's highly publicized need to repackage and reformulate existing patented blockbuster drugs with expiring patents over the next 5 years. For more information, contact InnerCap Technologies, Inc., at (813) 837-0796 or visit [www.innercap.com](http://www.innercap.com).

# TECHNOLOGY Showcase

## ABSORPTION ENHANCEMENT



LCP is an emerging specialty pharmaceutical company focused on certain cardiovascular indications and organ transplantation. It currently has one product on the market, seven clinical development programs covering five product candidates, and three product candidates in preclinical development. Its first commercialized product, LCP-FenoChol, has received FDA approval for sale in the US under the brand name Fenoglide™ and is marketed in the US by Sciele

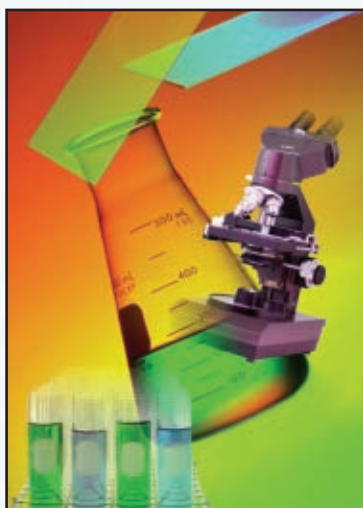
Pharma. Fenoglide and its other development compounds are based upon its unique drug delivery technologies. The proprietary MeltDose® platform enhances the absorption of poorly soluble drugs. Applying MeltDose technology creates new versions of existing drugs with improved oral bioavailability, improving efficacy, allowing for lower dose, and in some cases, reducing food effect and/or potential side effects. For more information, visit LCP at [www.meltdose.com](http://www.meltdose.com).

## SILICONE MATERIALS



When it comes to drug delivery, NuSil provides numerous solutions that fit a variety of device needs. While most silicone products are customized for individual delivery systems, all are developed with FDA regulatory concerns in mind. In addition to its role as a supplier, NuSil offers research and development capabilities for those looking for proprietary, custom formulations. Regardless of batch size, NuSil delivers quality, high-performance silicone materials based on your unique property requirements, as well as provides precise, custom formulations. NuSil offers an even wider range of silicone material and compound options for transdermal, transmucosal, implanted intrathecal, and external delivery devices, as well as ingestible materials. For more information, contact NuSil Technology at (805) 684-8780 or visit [www.nusil.com](http://www.nusil.com).

## DEVELOPMENT & DELIVERY SOLUTIONS



Founded in 1991, Particle Sciences is an integrated provider of both standard and nanotechnology approaches to drug development and delivery. Through a combination of preformulation, formulation, analytic, bioanalytic, and manufacturing services, Particle Sciences provides clients with a powerful, integrated solution to most efficiently take a drug from discovery to the clinic. Each project has a dedicated team and leader

to manage the project from start to finish. With years of experience to draw upon, Particle Sciences can confidently handle difficult APIs, complicated intellectual property terrains, and challenging delivery goals to arrive at the simplest, most efficient solution to the client's needs. For more information, contact Particle Sciences at (610) 861-4701 or visit [www.particlesciences.com](http://www.particlesciences.com).

## KNOWLEDGE MANAGEMENT



PharmaCircle is an innovative knowledge management company specializing in the drug delivery, pharmaceutical, and biotechnology fields, with a current client base ranging from start-up life science companies to world leaders in Big Pharma. Clients choose PharmaCircle's services and content for its comprehensive technical (pipeline, products, molecule, and technology) and business (deals, acquisitions, royalty, licensing, drug revenues, market information, etc) related information and analysis, which are ideal for all segments of small and large companies. PharmaCircle helps facilitate product life cycle management (LCM), partnering, licensing, and competitive intelligence efforts as well as supplements internal efforts and costs at a fraction of the cost if performed internally. For more information, contact PharmaCircle at (847) 729-2960 or visit [www.pharmacircle.com](http://www.pharmacircle.com).

# TECHNOLOGY Showcase

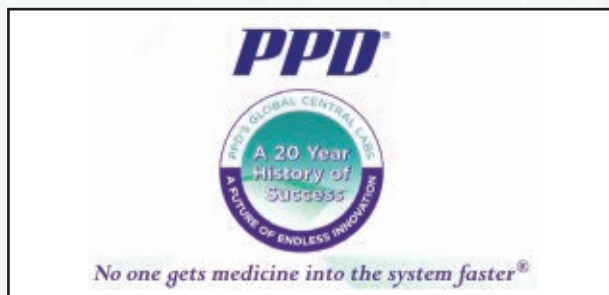
## CONTRACT SERVICE PROVIDER



PharmaForm doesn't just provide its clients with creative solutions; it creates successful partnerships. As a pharmaceutical contract service provider, it offers a wide range of formulation, drug product development, manufacturing, analytical testing and stability services, patent litigation support services, and product platform licensing opportunities. Its formulation scientists have core expertise and experience in improving solubility of poorly soluble compounds. One such available technique to clients is Evaporative

Precipitation into Aqueous Solutions (EPAS), a process that causes the formation of nano-sized particles that can help enhance bioavailability of a poorly soluble compound. PharmaForm's state-of-the-art facility is registered with the FDA and the DEA and is cGMP/GLP Compliant. For more information, contact PharmaForm at (512) 834-0449 or visit [www.pharmaform.com](http://www.pharmaform.com).

## GLOBAL CENTRAL LABS



PPD's global central labs fully support your drug development programs with extensive global reach; logistical expertise; highly customized and flexible services; strong and consistent science and therapeutic expertise; high-quality performance (98.5% data acceptance rate); efficient, accurate, and rapid sample collection; and state-of-the-art laboratories with all relevant accreditations and certifications. Through strategically located facilities in North America and Europe, and with the use of sophisticated logistics and courier services, PPD provides clinical laboratory services to investigator sites in virtually every country of the world. PPD recently announced it has expanded its global central lab services into China through an exclusive agreement with Peking Union Lawke Biomedical Development Limited. For more information, contact Rob Danziger at (859) 442-1300 or visit [www.ppd.com](http://www.ppd.com).

## PREFILLED/CLINICAL SAFETY SYRINGES



Unilife Medical Solutions has a range of prefilled and clinical safety syringes suitable for pharmaceutical companies, healthcare facilities, and patients who self-administer prescription medication. Our products incorporate passive and fully integrated safety features that can help customers comply with needlestick prevention laws and

encourage single-use and safe disposal practices outside of healthcare settings. The products feature a passive (automated) needle retraction mechanism allowing operators to control the speed of needle retraction directly from the body into the barrel of the syringe. The Unilife Ready-to-Fill Syringe features a glass barrel and is compatible with the manufacturing procedures used to fill standard prefilled syringes. The Unitract 1-mL Insulin Syringe is FDA certified and now being manufactured in the PA facility. For more information, contact Unilife at (717) 938-9323 or visit [www.unilife.com](http://www.unilife.com).

## DRUG DEVELOPMENT



Xcelience is the premier source for unsurpassed quality in drug development services. The company brings together the industry's most experienced and talented scientists, consistently and efficiently moving compounds through the research and development continuum to regulatory approval. Since 1997, the Tampa-based laboratory has been developing formulations for clients throughout the pharmaceutical industry. Xcelience's unique corporate structure creates project teams that work intensively with each client, bringing an extension of their own organization into the Xcelience lab. The lab uses only state-of-the-art equipment, highlighted by the patented Xcelodose®, which fills API directly to capsules (Xcelodose is a registered trademark of Capsugel BVBA). This and other technologies give Xcelience unparalleled speed to market without compromising its absolute commitment to quality. For more information, contact Xcelience at (608) 643-4444 or visit [www.xcelience.com](http://www.xcelience.com).

# TECHNOLOGY Showcase

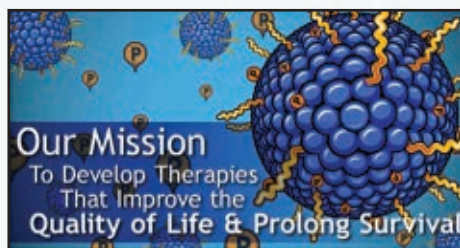
## ADVANCED AUTOMATED SYSTEMS



ASTECH Projects is recognized as one of the world leaders in Drug Delivery Testing Automation with an unsurpassed portfolio of next-generation solutions for the major pharmacopoeia tests in Respiratory, Solid Dose, and Injectables. ASTECH's

systems are of the highest quality seen in this industry and are fully validated in line with EU, US FDA, and ROW regulatory requirements. The systems are modular and are designed to allow easy integration with each customer's unique products. ASTECH's X-Products range, which includes Xelize, Xelox, and Xelair, provides state-of-the-art automated testing for Dose Content Uniformity and Particle Size Determination, including Andersen and NGI impactors. ASTECH maintains an ISO 9001:2000-accredited quality system together with TickIT assessment for software design and implementation. For more information, visit ASTECH Projects at [www.astechnology.co.uk](http://www.astechnology.co.uk).

## PSL NANOTECHNOLOGY



Azaya Therapeutic's Protein Stabilized Liposome (PSL™) nanotechnology utilizes a new, next-generation nanotechnology to produce

liposome-encapsulated drug products. The company's interest in these agents is based on the potential for improved delivery of poorly soluble drugs, reduction in chemical and enzymatic degradation, and improvement in the toxicity profile of an agent. This technology is a key advancement in liposomal delivery, utilizing a proprietary single-step manufacturing process that produces uniform particles less than 200 nanometers while stabilizing drug encapsulations. Enhanced delivery of cytotoxic agents using PSL nanotechnology provides a safer, less expensive, and more convenient use to preferentially target tumors through an enhanced permeation retention (EPR) effect. In addition, Azaya's PSL nanotechnology offers an active targeting mechanism that utilizes protein identification of up-regulated tumor biomarkers. For more information, contact Azaya Therapeutics at (210) 341-6600 or visit [www.azayatherapeutics.com](http://www.azayatherapeutics.com).

## MOISTURE/SOLIDS ANALYZER



Arizona Instrument LLC has released the newest firmware enhancement of the Computrac® MAX® 2000XL moisture/solids analyzer, the 4.36 Advantage. The new Advantage firmware utilizes the industry-proven, RAPID Loss-on-Drying methodology,

providing the testing accuracies and reliability required by the pharmaceutical industry, but it now includes 3 key feature enhancements to comply with the expanding requirements and policies of governing bodies, SOP certification processes and equipment verification standards. These new features include User Login/Tracking to track and manage user testing activities, Balance Verification to provide in-field balance check and reporting, and Balance Mode to allow the instrument to function as a stand-alone. For more information, contact Arizona Instrument at (800) 290-1414 or visit [www.azic.com](http://www.azic.com).

## NEW TECHNOLOGIES

**Bend Research Inc.**  
Innovators In Pharmaceutical And Health Science Technologies

Bend Research has decades of experience and a proven track record of success in advancing pharmaceutical compounds. The scope of our work is comprehensive. We develop drug delivery solutions from a base of fundamental understanding, provide formulation and dosage-form assistance, and advance promising drug candidates all the way to commercialization. Our engineering group has a wide range of tools and the expertise to assist customers in process development and optimization, science of scale, and scale-up and technology transfer. We also operate a current Good Manufacturing Practice (cGMP) facility to produce supplies for regulatory, clinical, and commercial use. For more information, contact Bruce Johnson of Bend Research at (541) 382-4100 or e-mailing [bjohnson@bendres.com](mailto:bjohnson@bendres.com) or visit [www.bendres.com](http://www.bendres.com).

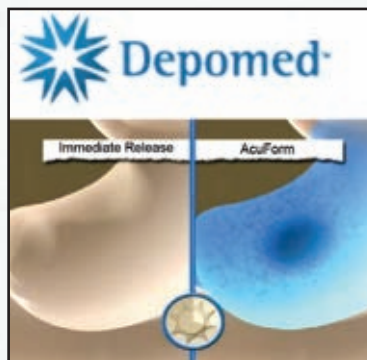
# TECHNOLOGY Showcase

## PHARMACEUTICAL SOLUTIONS



Catalent Pharma Solutions is a world leader in patented drug delivery technologies. For more than 70 years, we have developed and manufactured advanced drug delivery systems and partnered with nearly every major global pharmaceutical company. We continually work to advance the science of drug delivery and enhance the therapeutic and market performance of our customers' drugs. Our advanced drug delivery technologies bring new options to resolve the technical challenges development scientists face every day. These patented technologies can improve the odds of successful formulation by enhancing bioavailability, optimizing the rate of release, and targeting the site of absorption. Our technologies include softgel and Vegicaps® Soft capsules; Zydys® fast-dissolve dosage form; modified-release technologies; and a range of inhaled technologies, including MDIs, DPIs, nasal sprays, and solutions/suspensions for inhalation, nebulizers, and liquid inhalers. For more information, contact Catalent Pharma Solutions at (866) 720-3148 or visit [www.catalent.com](http://www.catalent.com).

## UPPER GI DELIVERY



AcuForm is Depomed's unique, patented, polymer-based technology designed to optimize drug delivery. AcuForm allows for targeted, controlled delivery of pharmaceutical ingredients to the upper GI tract, the preferential absorption site for many oral drugs. Unlike immediate- and some extended-release

formulations that pass through the upper GI tract within approximately 3 hours following ingestion, AcuForm's unique swelling polymers allow the tablet to be retained in the stomach (gastric retention) for approximately 8 to 9 hours. During this time, the tablet's active ingredient is steadily delivered to the upper GI tract at the desired rate and time, without the potentially irritating burst of drug that often occurs with other formulations. For more information, visit Depomed, Inc. at [www.depomedinc.com](http://www.depomedinc.com).

## PARTICLE ENGINEERING



Enavail provides particle engineering expertise for increasing the bioavailability of proteinaceous compounds and poorly water-soluble drugs. Enavail's core technologies are focused on two key areas: a) producing high surface area, non-degraded powder forms of labile proteins and b) generating crystalline or amorphous forms of poorly water-soluble compounds, providing high potency and greatly enhanced dissolution. Our company's proprietary particle design capabilities include novel, validated, and scalable technologies for use with multiple routes of administration (oral, pulmonary, intranasal, parenteral). A highly controllable "bottom up" approach is taken, creating precise particle size and morphology. Enavail offers custom solutions to partners from initial drug screening (microgram to gram quantities) through to final product development. State of the art research and GMP manufacturing facilities are located in Austin, Texas. For more information, contact Enavail at (512) 697-8161 or visit [www.evavail.com](http://www.evavail.com).

## INNOVATIVE SYRINGE SYSTEMS



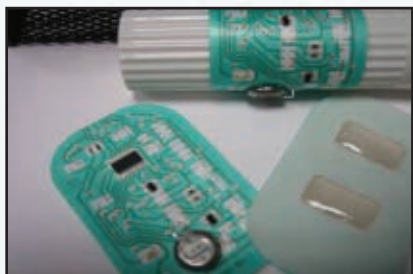
The Gerresheimer Group is the leading manufacturer of glass and plastic products for the pharmaceutical and life science industry. The product portfolio ranges from pharmaceutical vials to complex drug delivery systems. Gerresheimer is also known for excellence in the area of RTF® (Ready to Fill) syringes, which are supplied completely washed, siliconized,

assembled, nested, packed in tubs, and sterilized to the customers. A range of proprietary accessories, such as the rigid needle shield with thermoplastic elastomer (TERNS) and the tamper-evident Luer lock closure with twist-off motion (TELC), facilitate safety and convenience for the end-users of these syringe systems. Gerresheimer partners with customers worldwide to meet specific market needs. For more information, contact Burkhard Lingenberg of the Gerresheimer Group at +49 211 6181-250 or visit [www.gerresheimer.com](http://www.gerresheimer.com).



# TECHNOLOGY Showcase

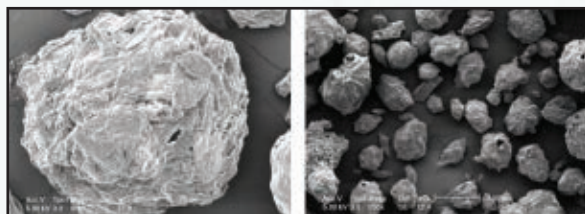
## IONTOPHORETIC PATCH



Isis Biopolymer, Inc. is expanding the capabilities of active transdermal drug delivery with its breakthrough product, the Isis Patch. The first compact, wireless, active iontophoretic patch to be fully

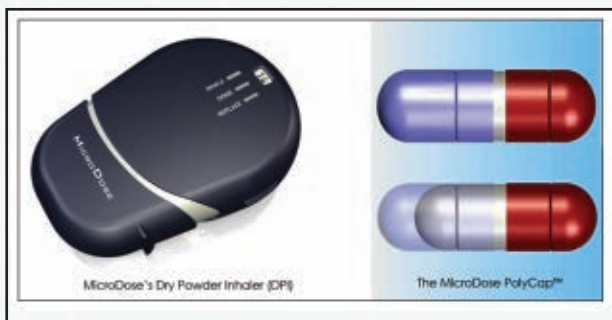
programmable by healthcare professionals, the Isis Patch enables physicians to control activation, monitor use, and adjust drug delivery to each patient. Proprietary hydrogels allow dosing of multiple drugs, as well as a wide variety of drugs. A smaller, softer, and more flexible design resembles a band-aid, while hypoallergenic, skin-friendly polymers eliminate irritation and enable the patch to be worn for up to 7 days with superior adherence to the skin. Isis Biopolymer's lower cost, environmentally friendly manufacturing process reduces the cost of conventional iontophoresis by much as 50%. For more information, contact Isis Biopolymer at (401) 921-6873 or visit [www.isisbiopolymer.com](http://www.isisbiopolymer.com).

## PERFORMANCE EXCIPIENTS



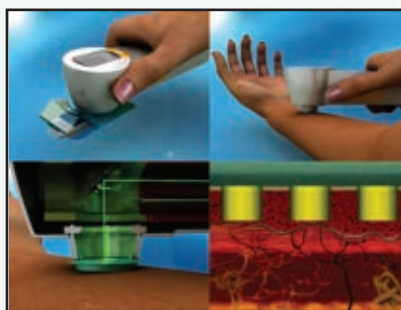
Mallinckrodt Baker recently launched PanExcea™ MHC300G performance excipient, a homogeneous particle that serves as a filler, binder, and disintegrant for immediate-release applications. Manufactured using novel particle engineering technology, the granular spherical excipient provides multifunctional performance capabilities that enable efficient and cost-effective drug development and manufacturing. PanExcea MHC300G lowers the total cost of ownership for the drug formulator by facilitating direct compression of even the most difficult APIs. It offers extensive API compatibility and variable API load capability to increase formulation flexibility. PanExcea MHC300G, which can be used as a building block or as a complete excipient, provides formulation development flexibilities and efficiencies, and enables implementation of Quality by Design (QbD) initiatives. For more information, contact Mallinckrodt Baker at (800) 943-4747 or visit [www.MallBaker.com/PanExcea](http://www.MallBaker.com/PanExcea).

## NEXT-GENERATION PRODUCTS



MicroDose Therapeutx is pioneering the creation of next-generation products utilizing its proprietary technologies. MicroDose's Dry Powder Inhaler (DPI) and PolyCap™ combination oral dose capsule system promise to dramatically improve efficacy and compliance. MicroDose's next-generation DPI is a state-of-the-art electronic inhaler providing superior delivery for both small and large molecules to the lungs. It provides a platform technology that is low cost, reusable, and environmentally friendly, which can support a full pipeline of products. MicroDose's PolyCap System is a proprietary approach that enables the rapid development of FDC therapies in a single dose, but separated by a physical barrier. Utilizing the proven strengths of capsules and the advantages of a barrier system, it allows for more rapid development timelines and lower regulatory requirements. For more information, contact MicroDose Therapeutx at (732) 355-2100 or visit [www.mdtx.com](http://www.mdtx.com).

## INTRAEPIDERMAL DELIVERY



P.L.E.A.S.E.® (Painless Laser Epidermal System) is a novel transdermal delivery method for high molecular weight drugs. A hand-held laser device creates controlled aqueous micropores in the epidermis. Due to the

special features of the device, the micropores do not reach the dermis, where nerves and blood vessels reside. An intelligent graphical user interface guarantees simple and safe use by medical personnel or patients, who can use the device without supervision. A special laser source ablates outer skin tissue painlessly in a highly controlled and accurate fashion. Features and benefits include very short pulses that practically eliminate thermal damage; fast and accurate ablation of skin tissue; and scanner optics allowing for flexible formation of pore arrays. For more information, contact Pantec-Biosolutions at +423 377 13 90 or visit [www.pantec-biosolutions.com](http://www.pantec-biosolutions.com).

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*Enabling your success*

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**BASF Corporation**  
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**BD Medical - Pharmaceutical Systems**  
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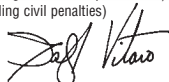
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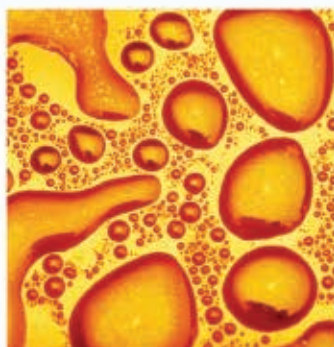


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