



Long-Acting Drug Delivery

From Concept to Commercialization. We Deliver!

For more than 20 years, the CDMO division of Lubrizol Life Science Health has been a leading contract development and manufacturing organization (CDMO), providing customers with drug product development and manufacturing services with the ultimate goal of creating solutions that improve patient outcomes.

Staffed by industry experts, we offer drug product formulation and manufacturing expertise, a comprehensive suite of supporting services, and an array of standard and proprietary technologies. We specialize in the ability to deal with poorly water soluble and highly potent compounds under GxPs, in both sterile and non-sterile environments.

Located in Bethlehem, PA, the development and manufacturing facilities are side by side to offer customers a seamless flow from development through manufacturing. Today, our clients include over half of the leading pharmaceutical and biotech companies, governments, foundations, universities, and start-ups.

Services Include:

- Pre-formulation and formulation
- Analytical methods development and validation
- ICH-compliant stability testing
- Quality/regulatory CMC support
- GMP clinical trial and commercial drug product manufacturing

Long-Acting Drug Delivery - The CDMO Division of Lubrizol Life Science Health is a leading developer of drug-eluting systems, including bioabsorbable and biodurable implantable devices, depot injections, and a range of combination products. We have led the way in vaginal ring design for over 20 years, and we are uniquely equipped for microsphere and gel depot development and manufacturing. Our team is also well versed in subcutaneous implants, ophthalmic implants, micro- and nanoparticle technology, films, and intermediates such as dexamethasone-loaded silicone. Whatever the goal of your product, the drug incorporation method, dosage form, and excipient selection is optimized by our experienced team to achieve the desired drug release rate.

Capabilities Snapshot:

APIs

- Small molecules
- Biologics
- Highly potent APIs (HPAPIs)
- Controlled substances (Sch. I - V)

Product Types

- Intravaginal rings
- Subcutaneous implants
- Ophthalmic implants
- Microparticle and gel depots
- Injectable suspensions
- API-loaded polymers
- Drug-eluting coatings

Analytical Services

- Method development and validation
- In vitro drug elution testing
- ICH-compliant stability programs

Facility equipped for:

- GMP manufacturing
- Highly potent API handling
- Technology transfers

Our long-acting drug delivery team is equipped to handle the complete development, characterization, and GMP manufacturing your product.

Services & Technologies:

Implants

- Extensive statistical-based modeling
- Hot melt extrusion (HME)
- Co-extrusion (core-sheath devices)
- Injection molding
- Cryo-milling and jet milling
- Surface dip and spray coating
- High-shear mixing

Microparticle and Gel Depots

- Sterile liquid and powder filling
- Lyophilization
- Homogenization, microfluidization, tangential flow filtration
- Spray drying

For more information, visit lubrizolcdmo.com or call us toll free at +1 610-861-4701.

