



# Commercial Drug Product Manufacturing

## From Concept to Commercialization. We Deliver!

For more than 20 years, the CDMO business of Lubrizol Life Science Health (LLS 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

**Commercial Drug Product Manufacturing** - While CMO market capacity is adequate for mainstream products, there is a lack of manufacturing capacity for the rapidly growing sub-segment of aseptic and complex drug products. Such a facility requires not only purpose-built infrastructure, but also a highly specialized staff. To fill this gap, we have established commercial production for complex drug products leveraging our decades of knowhow as a leading product developer and clinical stage manufacturer. Our team and our facility are ideally sized for complex drug product manufacturing, so you can rest assured that your drug product will get the care and focus it needs to succeed.

## Capabilities Snapshot:

### APIs

- Small molecule
- Biologic
- Controlled substances

### Processes

- Aseptic processing
- Homogenization, tangential flow filtration and microfluidization
- Nanomilling
- Lyophilization
- Organic solvent processing

### Containers

- Vials
- Syringes
- Cartridges
- Bottles

### Stability & Storage

- ICH-compliant stability programs
- Controlled warehouse space
- Cold and frozen storage

### Facility Adaptable for

- Dual chamber devices
- Aseptic powder filling

Our manufacturing staff is customer-focused and thrive in a dynamic, highly technical environment.

## Product Types:

- Sterile liquids and powders
- Suspensions and solutions
- Long-acting bioabsorbable injections
- Nanosuspensions and emulsions

For more information, visit [lubrizolcdmo.com](http://lubrizolcdmo.com) or call us toll free at +1 610-861-4701.

