



Mallinckrodt
Pharmaceuticals

Mallinckrodt Contract Manufacturing

High Performing Facilities with Comprehensive
Solutions and Value-Added Services





Mallinckrodt Pharmaceuticals

Facilities and Equipment Ideal for Your Product Offering:

HOBART



- ✓ U.S. FDA and DEA Compliant
- ✓ Operated Under cGMP Conditions
- ✓ Annual Capacity of 10+ Billion Doses
- ✓ Site: 405,677 sq. ft.

Technologies:

- Dry Blending
- Wet Granulation and Fluid Bed Drying
- Tablet Compression
- Film Coating
- Gelatin Capsule Filling (*Powder & Bead*)
- Liquid Blending and Filling
- Fully Serialized and Aggregated Packaging

WEBSTER GROVES



- ✓ Pilot Plant Development to Commercial Scale Up and Manufacturing for High Value
- ✓ Small Volume Oral Solid Dose Products
- ✓ Potent Compound Handling Capability
- ✓ DEA-Licensed wth Controlled Access
- ✓ Site: 13,950 sq. ft.

Technologies:

- Dry Blending
- Wet Granulation and Fluid Bed Drying
- Tablet Compression
- Film Coating
- Hot Melt Extrusion

Our Diverse Capabilities Allow for a Wide Range of Manufacturing Options

- **Tableting and Encapsulation:**
 - **Tableting**
High speed, dedicated tablet presses
 - **Encapsulation**
Capable of powder, single or double bead encapsulated production with in-line quality control
 - **Film Coating/Imprinting**
Large-scale film coating and printing capable
- **Blending and Dispensing:**
 - **High Shear/Bead/Drying**
Multiple granulation, coating and drying operations
 - **Ancillary Equipment**
Large-scale bead manufacturing and milling capabilities
 - **V-Blending**
Pilot to large, commercial scale V-blending capability

Our Electronic Laboratory Notebook System Enables Accurate and Efficient QC Operations

- Full Analytical and Test Method Development Capabilities for Solid, Oral and Liquid Dose Products, Across Full Range of Presentations
- Raw Materials
- Full Release and On-Market Quality Control Lab
- Analytical Support
- Stability Program Management

Our Packaging Lines are Fully Equipped with Serialization and Aggregation Technology

- **Solid Dose Packaging***
Fully serialized solid dose packaging with integrated labeling, sealing, check-weighing, and tablet reconciliation
- **Liquids Formulation and Packaging***
Fully integrated liquid packaging for large and small scale solution batches with integrated cartoning
- **Unit Dose Blister Packaging***

*All packaging lines meet and exceed the expectations of the November 2018 Drug Supply Chain Security Act regulatory deadline

Our Fully Compliant Distribution Hub Is Capable of Next-Day Case Shipment Across the U.S.

Your Contract Manufacturer of Choice...

- ✓ Responsive, Flexible Manufacturing and Packaging of an Array of Products
- ✓ Demonstrated Competency in Delivering Solid Dose and Oral Liquid Products on Time and in Full
- ✓ High Level of Expertise and Extensive Checks and Balances System to Ensure Quality Drug Production
- ✓ Acute Focus on Safety and Quality Mindset Throughout Entire Manufacturing and Packaging Process
- ✓ Multi-Year Global Manufacturing Leadership Council Award Winner



For More Information About Contract Manufacturing, Visit:
<http://www.mallinckrodt.com/products/generics/contract-manufacturing/>

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