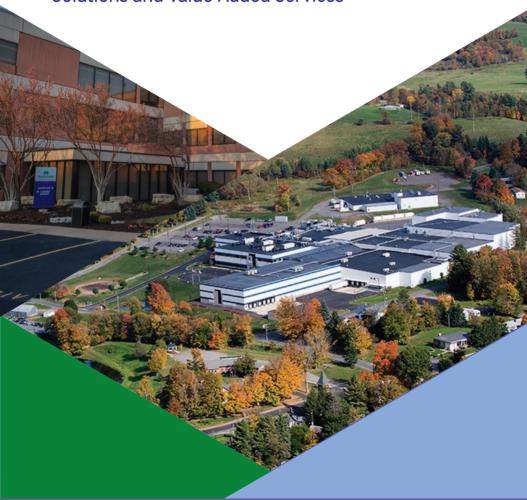


Mallinckrodt Contract Manufacturing

High Performing Facilities with Comprehensive Solutions and Value-Added Services





Facilities and Equipment Ideal for Your Product Offering:



- **✓** 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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385 Marshall Avenue, Webster Groves, MO 63119 • 800.325.8888 • www.mallinckrodt.com