PureTech Scientific™

Scale Complex Chemistries With Confidence

Execution You Can Trust. Scale You Can Depend On.

PureTech Scientific's Dayton, Tennessee site is a U.S.-based manufacturing platform purpose-built to support complex chemistries—from validation through full production. With advanced infrastructure, controlled processing environments, and deep technical expertise, we enable customers to confidently transfer, scale, and manufacture specialized chemistries.

Our team partners with you to ensure reliable execution, consistent quality, and seamless scale-up across every stage of production.

- **Multi-phase processing**
- **Pressure and temperature-controlled reactions**
- **Hazardous chemistry handling (flammable, reactive systems)**
- **Integrated reaction, isolation, and finishing**
- **24/7 operations**

What We Do

Custom Manufacturing:
Validation to full-scale production

Hazardous Material Handling:
Liquids, solids, and gases

R&D & Analytical Collaboration:
In-process testing and analytical support

Markets We Serve

Life Sciences

Personal Care

Household and Institutional Cleaning

Industrial and Specialty Chemicals

PureTech Scientific™

End-to-End Manufacturing for Complex Chemistries

Designed to support complex chemistries across a wide range of operating conditions, the Dayton site enables integrated capabilities from reaction through isolation, finishing, and quality control.

1 Reaction & Process Chemistry

- Glass-lined and stainless-steel reactors
- Pressure and temperature-controlled capability
- Batch and semi-batch flexibility
- Nitrogen-supported systems
- 700 - 3,000 gallon scale

2 Isolation & Finishing

- Centrifugation and drying
- Solids handling, isolation and classification
- Rotoform pastillation
- Thin film evaporation

3 Material Handling

- Three integrated production lines
- 175,000+ gallon storage
- Central tank system
- Bulk material handling & transfer

4 Quality & Regulatory

- In-process and release testing; GC, HPLC and IR
- GPC and DSC instrumentation
- ISO 9001:2015, Kosher, Halal
- Quality systems aligned with industry and regulatory standards

From Molecule to Manufacturing, Built for What's Next.

Contact our team to review your project requirements and identify the right path to validation and production.

info@puretechscientific.com
www.puretechscientific.com
1-888-536-9836

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