



*Analytical Contract Lab  
Providing Particle Size  
and Characterization  
Testing Services*



**Particle Technology Labs**

The Leader in Independent  
Particle Characterization Services

**THE PARTICLE EXPERTS**

CHARACTERIZATION - METHODOLOGY - EDUCATION



*PTL is the trusted particle characterization advisor to the world's leading pharmaceutical, industrial, public sector, and scientific organizations.*

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There is a reason the world's leading organizations choose Particle Technology Labs. Whether assisting a pharmaceutical company with an FDA approval to deliver a new drug to market, helping a cosmetic company improve product performance, or troubleshooting a material behavior issue, we deliver unparalleled business value to our clients each and every day.

For nearly 30 years, we have taken great pride in continuing to progress in our industry, staying on top of the most current technologies, instrumentation, and techniques. We provide comprehensive and innovative solutions, excellent customer service, expert knowledge in the field of particle technology, and a commitment to analytical integrity.

*PTL offers independent, objective and unique analytical insight to meet even your most challenging characterization needs.*



# SERVICES

Particle Technology Labs offers a wide array of particle size and characterization analyses. Our trained chemists use state of the art instrumentation and techniques to provide independent, accurate test results.

We perform routine and advanced material characterization testing and analysis services, conduct method development, validation and transfer studies, and solve complex problems for clients from a variety of industries.



*At PTL, our scope and expansive knowledge of particle technology allows us to address problems that no one else can.*

*As an independent service laboratory, our comprehensive capabilities are renowned for offering valuable insight under an objective environment.*

### **Particle Size Distribution**

*Laser Diffraction*

*Electrozone*

*Light Obscuration /*

*Single Particle Optical Sensing (SPOS)*

*Dynamic Light Scattering*

*Nanoparticle Tracking Analysis*

*Particle Size & Shape Analysis*

*Sieve Analyses*

*Air Permeability Diameter*

### **Gas Adsorption & Porosimetry Analyses**

*Bet Specific Surface Area (BET)*

*Micropore Measurement*

*Mesopore Measurement*

*Mercury Intrusion Porosimetry*

### **Chemisorption**

### **Vapor Sorption**

### **Particle Identification / Speciation**

#### **Microscopy Services**

*Scanning Electron Microscopy (SEM)*

*Photomicroscopy*

*Image Analysis*

#### **Powder Flowability**

#### **Thermal Analysis**

*Thermogravimetric Analysis*

*Differential Scanning Calorimetry*

#### **Zeta Potential**

#### **Customized Method Development & Validation**

*Method Development*

*Method Validation*

*Method Transfer*

*Method Verification*

*Statistical Analysis*

# INDUSTRIES SERVED

*The applications for particle characterization results are as endless as the types of industries we serve.*



*Pharmaceutical*

*Petro-Chemical*

*Beauty & Cosmetic*

*Food & Beverage*

*Ceramic*

*Aerospace*

*Automotive*

*Biomedical Device*

*Manufacturing*

*Mining*

*Environmental*

*Agricultural*

*Ink, Pigment & Paint*

*Dietary Supplement*

*Cannabinoid*

*Abrasive*

*Medical Device*

*Research Universities*

At PTL, our mission is to continuously provide a high level of technical expertise and quality service to our customers. We strive to establish long-lasting client relationships built upon mutual collaboration and trust, working closely with each client to ensure delivery of accurate, reliable, and insightful results.



*No matter your industry, PTL is the comprehensive solution for your unique particle characterization needs.*

**cGMP (Current Good Manufacturing Practices) Compliant  
in accordance with 21 CFR, Parts 210 and 211**

**ISO/IEC 17025:2017 Accredited**

**FDA Registered**

**DEA Licensed**

**ATF Permit Holder**



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