

AUTOMATED PHARMA API PARTICLE SIZE & DISTRIBUTION ANALYSIS SOFTWARE - TORONPH™ -PRO



Automated Pharma API Particle Size & Distribution Analysis Software - ToronPh™-Pro is specifically developed for analyzing microscopic Active Pharmaceutical Ingredient (API) particles. It supports the detection and measurement of various particle dimensions using interactive auto-bright and auto-dark techniques that identify particles within defined intensity thresholds.

APPLICATIONS

Automated Pharma API Particle Size & Distribution Analysis Software ToronPh™-Pro offers a wide range of measurement options for selected particles, including area, perimeter, length, minimum and maximum radius, diameter, circularity, elongation, aspect ratio, and polygon index.

It also features automatic classification of particles into different size groups based on area or length. Key particle size distribution metrics—D10, D50, and D90—are generated automatically based on particle diameter, providing valuable insight into size variability within a sample.

Tailored for pharmaceutical applications, ToronPh™-Pro supports critical analysis needed to maintain product quality and performance. Its capabilities are well-suited for both quality control and research and development, equipping professionals with the data they need to make informed decisions about their formulations.

Automated Pharma API Particle Size & Distribution Analysis Software ToronPh-Pro™

FDA 21 CFR Part 11 Compliance

1. Unique user IDs are managed by administrators, who can create new accounts and reset passwords.
2. Access to specific modules is restricted to authorized users only.
3. All user actions are recorded in an event history log, with PDF reports that include electronic signatures.
4. A timestamped audit trail captures user identities and actions for full traceability.

5. A centralized database ensures efficient record storage, helping prevent data loss or unauthorized modifications.

Particle Size Distribution Chart

Automated Pharma API Particle Size & Distribution Analysis Software ToronPh-Pro™

Particle Size Distribution Report

Automated Pharma API Particle Size & Distribution Analysis Software ToronPh-Pro™

FEATURES

Automated Pharma API Particle Size & Distribution Analysis Software ToronPh™-Pro Features

Dimensional Analysis Methods

Automated Pharma API Particle Size & Distribution Analysis Software ToronPh™-Pro features three distinct methods for particle detection—interactive, auto-bright, and auto-dark. These approaches allow accurate identification of particles based on intensity levels, offering flexibility across a variety of conditions and sample types.

Comprehensive Measurements

After particle identification, the software delivers a broad range of measurement options. These include basic parameters such as area, perimeter, and length, along with advanced metrics like minimum and maximum radius, diameter, circularity, elongation, aspect ratio, and polygon index. Together, these measurements enable a complete analysis of particle shape and structure.

Particle Classification

Particles can be categorized by area or length, allowing the software to group them into distinct size ranges. This function supports a better understanding of the distribution and characteristics of particle populations within a sample.

Automated Size Distribution Metrics

Key size distribution values—including D10, D50, and D90—are automatically calculated based on particle diameter. These metrics help quantify the spread of particle sizes and are essential for evaluating overall sample composition.

Pharmaceutical Focus

Purpose-built for the pharmaceutical sector, the software meets the high standards required for particle analysis in drug development and quality assurance. It supports industry compliance by providing a reliable platform for evaluating particles used in pharmaceutical formulations.

Decision-Enhancing Tools

The Automated Pharma API Particle Size & Distribution Analysis Software ToronPh™ -Pro delivers precise data along with clear visual outputs, enabling pharmaceutical professionals to make confident, evidence-based decisions about product quality, performance, and safety.

Support for Quality Control and R&D

With features designed for both quality control and research environments, the software allows users to assess particle properties effectively—supporting improvements in formulation development and product consistency.



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