



● Particle Characterization Analysis

Fast, Precise & Insightful

We, Confianza Pharmazon (Confianza Technologies LLP), have partnered with Umed Labs, Telangana for Particle Characterization Testing.

Founded in 2013 by Mr. U.V. Reddy, Umed Labs has strong expertise in quality control testing and recently Umed has got the USFDA Approval (Dec'2025).

Umed Pharma Lab Pvt. Ltd. is dedicated to ensuring the highest product purity, regulatory compliance, and patient safety through advanced particle characterization analysis.



Integrated Technologies for Comprehensive Analysis

- **Inverted Fluorescence Microscopy:**



Enables rapid detection of microscopic contaminants on transparent surfaces such as filters and slides. Fluorescent tagging enhances visibility of organic and biological particles, supporting precise identification.

- **UV Fluorescence Imaging:**

Utilizes ultraviolet excitation to reveal particles that are otherwise invisible under standard lighting, ideal for detecting trace residues like oils, polymers, and biological matter.



- **EDXRF (Energy Dispersive X-ray Fluorescence):**



Provides non-destructive elemental analysis of particles, allowing us to determine their chemical composition and trace their origin—essential for root-cause investigations and corrective actions.

- **Stereo Microscopy (Extended Analysis):**

Offers 3D visualization of larger or irregular particles, enabling quick classification and surface inspection. This is particularly useful for initial screening during contamination audits



- **Scanning Electron Microscopy (SEM):**



Delivers ultra-high-resolution imaging and morphology analysis at micro and nano scales. With EDS, SEM offers forensic-level insights into contaminant structure and composition.

At Umed Pharma Labs Pvt. Ltd., our contamination analysis ensures effective control across pharma, cleanrooms, semiconductors, and advanced materials.