Confianca™
Pharma-zen
One Platform, Unified Pharma Solutions™

Library for Contact Parts & Particle Characterization Analysis

Fast, Precise & Insightful

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Address: Confianca Pharmazon, 7, Gopal Estate, Near Navapura Bridge, Sanathal, Ahmedabad - 382210, Contact No: 9173319482,
Email: gaurav@confiancapharmazon.com; Web: www.confiancapharmazon.com

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Library for Contact Parts & Particle Characterization Analysis

We, Confianca Pharmazon (Confianca Technologies LLP) have developed lab at Ahmedabad for Library Preparation & Particle Characterization Testing.

Library Preparation :-
We do Gemba along with client (optional) to identify the product contact and non-contact parts. Based on identification of these parts, coupons shall be collected from clients. Further Analysis of these coupons shall be done at lab using 4 different technologies :- SEM with EDS, FTIR, TGA/STA and Microscopic Analysis.

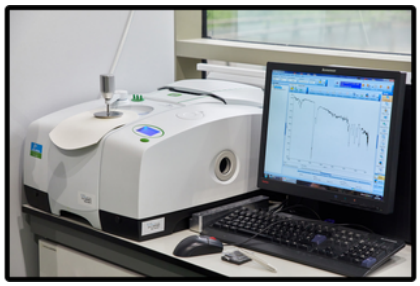
Particle Characterization for unknown particle in product :-
Once the library is prepared, we have all the data regards to morphology and bonding structure of product contact components. Any unknown particle/fiber identified in product shall be identified using SEM with EDS. Firstly the particle recovery shall be perfomed and then SEM with EDS shall be used to analysed the source of contamination.

Integrated Technologies for Comprehensive Analysis

- **Microscopic Analysis:**

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

- **Fourier Transform Infrared Spectoscopy :**



high-performance Fourier Transform Infrared spectrometer designed for precise qualitative and quantitative characterization of molecular structures across a wide spectral range. Engineered with a superior signal-to-noise ratio of 35000:1 and integrated with a temperature-controlled DLATGS detector, the system ensures exceptional analytical stability and reproducibility. The FTIR-4X is ideally suited for routine and research-grade analysis of powders, thin films, polymers, ceramics, liquids, and other solid-state materials (excluding gases).

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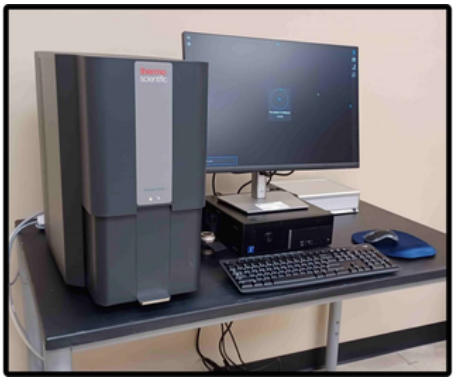
Integrated Technologies for Comprehensive Analysis

- **Siimultaneous Thermal Analyser (STA)**

The STA that combines Thermogravimetric Analysis (TGA) and Differential Thermal Analysis (DTA), with DSC conversion capability, in a single instrument. It is used to study weight changes and thermal events of materials as a function of temperature and time. The system is suitable for polymers, composites, nanomaterials, metals, ceramics, and inorganic materials under controlled atmospheres.

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



Delivers ultra-high-resolution imaging (up to 300,000 times zoom into particles) and surface morphology analysis at the micro and nano scale. When paired with elemental detection (EDS), SEM provides forensic-level insights into the structure and composition of contaminants. Yielding precise nanoscale surface information. It is equipped with advanced optics and detection systems, including SE, BSE, UVD, and STEM detectors. The SEM provides comprehensive information about specimen surface morphology, with an EDS system for elemental composition analysis.

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Contact Us

E: gaurav@confiancapharmazon.com
W: www.confiancapharmazon.com
www.gauravdakshini.com

M: +91 91733 19482 / +91 90810 12916

Vadodara:

237, Fortune Gateway, Near Channi Jakat Naka Circle, Vadodara – 390024

Ahmedabad:

Confianca Pharmazon, 7, Gopal Estate, Near Navapura Bridge, Sanathal, Ahmedabad - 382210