



ANALYTICAL AND RESEARCH SERVICES TO THE PHARMACEUTICAL INDUSTRY

A focused approach to contract analytical and research services

Quantex Laboratories is an independent contract testing and research company providing a range analytical solutions to the pharmaceutical, biotechnology and medical device industries. Our capabilities and services support the entire product life cycle from research, development and manufacturing, to production, distribution and regulatory compliance. Through an individually tailored problem solving approach, we focus on meeting the analytical and research needs of clients in a timely manner with the same level of technical and regulatory standards they expect from their own in-house laboratories.

Our laboratories have an extensive range of capabilities. We can perform analyses using a variety of analytical techniques which include GC, HPLC, GC/MS, LC/MS, FT-IR, AAS, ICP and optical spectroscopy.. We are also capable of combining these analytical tools to provide novel approaches to product release testing, package suitability, extractables/leachables testing, contaminant and impurities issues, and specialized problem solving and research studies.

Capabilities

- Method and Protocol Development/Validation.
 - Chromatography (HPLC & GC with various detectors, GC/MS, LC/MS)
 - Spectroscopy (FT-IR, AAS, ICP, UV/VIS)
- Methods transfer
- Drug substance characterization
- Impurity Profiles
- Identification of impurities and residual solvents
- Elucidation of the degradation pathways
- Reference Standard Characterization/Qualification
- Raw Material testing
- Finished Product Testing
- Release testing
- Container Leachables/Extractables
- Package Suitability Testing
- Process Development
- Comparator studies
- Organic/Inorganic Analysis
- Mineral assays
- Patent Infringement/Litigation Support

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Instrumental Capabilities

High Performance Liquid Chromatography

- Gradient Elution
- Isocratic Elution
- UV
- PDA
- Fluorescence
- Electrochemical Detectors
- Refractive Index Detectors
- Conductivity Detector

Gas Chromatography

- Capillary and Packed Column
- Flame Ionization Detector (FID)
- Thermal Conductivity Detector (TCD)
- Electron Capture Detector (ECD)
- Flame Photometric Detector (FPD)
- Nitrogen Phosphorus Detector (NP)
- Heated Headspace

Atomic Absorption Spectrophotometry

- Flame
- Graphite Furnace
- Cold Vapor (Mercury)

Inductively Couple Plasma Emission Spectrometry (ICP)

Gas Chromatograph/Mass Spectrometry

- Direct injection
- Heated Headspace
- Purge & Trap
- Quantitative/ Qualitative Analysis
- Identification of unknowns/Impurities/ Contaminants
- Residual Solvents
- Reference Library Support

Liquid Chromatography Mass Spectrometry

- Electrospray Ionization (ESI)
- Atmospheric Pressure Chemical Ionization (APCI)
- Reference Library Support
- Molecular Weight Determination
- Identification of unknowns/Impurities/Contaminants
- LC/MS/MS

Fourier Transform Infrared Spectroscopy (FT-IR)

UV-Visible Spectroscopy

Ion Chromatography

Karl Fisher

Refractive Index

Titrimetry

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