

Comprehensive Instrumentation & Technology Overview

Analytical, Microbiology, Heavy Metals & Stability

Certified Laboratories maintains a comprehensive range of advanced equipment supporting microbiology, analytical chemistry, trace residues such as heavy metals and residual solvents, and stability testing for cosmetics, OTC, and dietary supplements. Our capacity-driven infrastructure allows us to efficiently support both complex, large-scale projects and routine testing needs.

- ✓ **Multi-Detector GC Platforms (FID, ECD, FPD):** *Impurities, preservatives, residual solvents, and aromatic compounds.*
- ✓ **GC-MS:** *Trace-level contaminants, residual solvents, and nitrosamines.*
- ✓ **GC-MS/MS:** *Trace-level contaminants, residual solvents, and nitrosamines.*
- ✓ **UHPLC & HPLC Systems (UV, PDA, RI, DAD):** *Assay, content uniformity, and impurities.*
- ✓ **LC-MS/MS:** *Ultra-low-level actives, adulterants, and impurities.*
- ✓ **ICP-MS & ICP-OES:** *Heavy metals and elemental impurities at trace levels.*
- ✓ **FTIR & UV-Vis Spectroscopy:** *Compound identification and assay.*
- ✓ **ICH-Compliant Stability Chambers:** *Real-time and accelerated stability programs.*
- ✓ **MS Automated Microbial Identification System:** *MALDI-TOF mass spectrometry technology used for microorganism identification to support USP-aligned microbiology testing.*
- ✓ **Dissolution & Disintegration Systems:** *Performance testing for tablets and capsules.*

Dietary Supplement-Specific Capabilities

- ✓ **Botanical Identification Platforms (HPTLC, Microscopy, PCR):** *Botanical authentication, adulteration detection, and label claim verification.*
- ✓ **ELISA Testing Systems:** *Allergen detection, gluten screening, and targeted protein analysis.*
- ✓ **Vitamin & Nutrient Analysis (HPLC and LC-MS based):** *Water- and fat-soluble vitamins, amino acids, and nutritional actives.*



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