



SimSon
Life Sciences Private Limited

(Commercial Testing Laboratory)

SERVICES WE OFFER

METHOD DEVELOPMENT / VALIDATION /
VERIFICATION / CUSTOM SYNTHESIS

OUR STRENGTH

- More Than 200+ Scientist (Ph.D.'s & Master's)
- High Quality Instruments Procured from world renowned
- Principals Bruker/ Shimadzu /Agilent / Waters Etc.

INSTRUMENTS IN OUR LAB

- Bruker 400 MHz Nuclear Magnetic Resonance (NMR)
- High Performance Liquid Chromatography (HPLC) -15
- Gas Chromatography (GC) – 6
- Liquid Chromatography Mass Spectrometry (LCMS)
- Fourier Transform Infrared spectrometer (FTIR)
- UV Spectrophotometer
- Preparative High Performance Liquid Chromatography
- Elemental Analysis (CHNS & O)
- ICP-MS
- Malvern Particle size analyser
- Thermo Gravimetric Analyzer
- Melting Point Instrument
- Potentiometer, Karl Fisher Titrator, LOD & Disintegration unit

NMR



ICP-MS



HPLC

Prep. HPLC – Shimadzu



Visit Our Website

www.simsonlabs.com



SERVICES & CAPABILITIES

NMR

- ¹H –NMR
- ¹³C-NMR
- ¹⁹F –NMR
- ³¹P- NMR
- ¹⁵N-NMR
- ²⁹ Si –NMR
- Water & Solvent Suppression
- 1D-NOESY
- DEPT NMR
- Qualitative & Quantative NMR
- Structural Elucidation
- Also 2D Experiments.....

Method Development, Validation, and Verification

- LCMS-MS
- GCMS/MS
- HPLC
- GCHS
- ICP-MS
- Partice Size Analyzer (3000-Malvern)
- Potentiometric Titrator as per the current ICH Guidelines
- Microbiology, Water Validations samples.

CHNS

- Determination of C,H,N,S&O
- Identification of C,H,N,S&O

PrepHPLC

- Isolation

Complete Microbiological Analysis

- Pharmaceutical
- Medical Devices
- Cosmetics
- Industrial Water
- Foods
- USP Suitability
- MLT Testing
- Sterility Testing
- Water Analysis
- Personnel Monitoring
- BET(Water,Raw material, Injectable, Finish Product)
- Disinfectant Efficacy
- Preservative Efficacy
- Bio Burden Determination
- Active Air Sampling
- Surface Monitoring
- Settle Plate and Contact Plate
- Microbiological Assessment of Antibiotics & Vitamins

CHARACTERIZATION & QUALIFICATION

- Impurity Characterization and Working Standard Qualification will be done by NMR, Mass, IR, TGA, CHNS

LC-MS

- Unknown Impurity Identification
- Genotoxic Impurities Quantification
- Isotopic enrichment & D0 content
- Direct Mass Analysis

GSMS/MS

- Nitrosamine Detection
- Genotoxic Impurity (GTI) Assessment
- Unknown Impurity Identification
- Extractables & Leachables (E&L) Studies

ICPMS

- Screening
- Elemental Analysis as per ICH-Q3D
- Batch Analysis

DISSOLUTION

- Dissolution Profile
- Multi Media Dissolution.

Methodologies

- Pharmacopoeia Standards
- USP
- Ph. Eur.
- BP
- JP
- IP
- Client Methods

HPLC

- Assay, RS, Identification, Dissolution.
- Content Uniformity
- Chiral Analysis

GC-MS

- Residual Solvents
- Assay & Related Substances, Identification
- Ethylene Oxide
- 1,4-Dioxin Analysis
- Fatty Acid Estimation

TGA

- Weight Loss by TGA
- Residue On Ignition with Less Quantity

DSC

- Thermal analysis

PSD

- Wet & Dry Method for API, Intermediates.
- Suspension & Eye Drops particle Size Estimation
- Batch Analysis

SOR

- Polarimeter
- OR analysis
- SOR analysis

WET Instruments

- IR Spectroscopy
- UV-VIS-Spectroscopy
- Water Content by KF
- Viscosity
- Melting Poing

TOC Analysis

- TIC
- TC
- TOC/NPOC