

(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** 

VANCENEO

HPLC

BRUKE

Ascend™ 400

















# 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......

## **LC-MS**

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

- Screening
- Elemental Analysis as per

**ICP-MS** 

- ICH-Q3D
- **Batch Analysis**

## **PSD**

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

Dissolution.

Chiral Analysis

## **GC-HS**

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

### **Method Development &** Valida on, Verifica on by

- LC-MS
- HPLC
- GC-HS
- ICP-MS
- Partice Size Analyzer (3000-Malvern)
- Potentiometric Titrator as per the
- current ICH Guidelines

**CHNS** 

Determination of C,H,N,S&O

Identification of C,H,N,S&O

- Microbiology, Water
- Validation samples

- Pharmacopoeia Standards
- **USP**
- ΕP
- BP
- JΡ
- Client Specific

# Dissolution

- Dissolution Profile
- Multi Media Dissolution.

## **Methodologies**

HPLC: (UV-Visible, RI, PDA)

Assay, RS, Identification,

**Content Uniformity** 

- ΙP

## **TGA**

- Weight Loss by TGA
- Residue On Ignition with

**Wet Instruments** 

Less Quantity

## Complete Microbiologica I 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**

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

### **SOR**

- Polarimeter
- OR analysis
- SOR analysis

### **DSC**

Thermal analysis

## **PrepHPLC**

Isolation

## **CHARACTERIZATION & QUALIFICATION**

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

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