



A division of Arbro Pharmaceuticals Limited

# Arbro Analytical Division

World class contract research and analytical services



Your  
**satisfaction**  
is our goal

Drugs & Pharmaceuticals

Honey

Dairy Products

Spices

Water

Grapes

Rice

Cereals

Chemicals

Herbal & Ayurveda

Food

Building Material



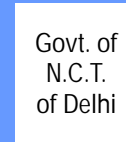
## Company Overview

Arbro Analytical Division is a leading multi disciplinary contract research and testing organization. Arbro Analytical Division was established in the year 1990. At present Arbro has a client base of more than 7500 around the world. A team of over 150 professionals is spread across multiple locations, backed by cutting edge technology and world class infrastructure. Arbro is one of the first commercial laboratories in India to provide online sample tracking and data management using an advanced Laboratory Information Management System(LIMS).

We at Arbro have a comprehensive management and quality system which enables us to complete the projects accurately and in compliance with applicable regulations & guidelines. Arbro Analytical Division is accredited by(NABL)National Accreditation Board for Testing and Calibration Laboratories (ISO/IEC 17025:2005) and is an ISO 9001-2000 Certified Company. The analytical laboratory provides the highest quality services with the lowest turn-around time. Be it quality control testing, routine & non-routine analysis, environmental and analytical consultancy, Arbro is the turnkey contract analysis outsourcing solution to a number of industries.







# Accreditations



- Accredited by (NABL) National Accreditation Board for Testing and Calibration Laboratories (ISO / IEC17025 : 2005) for Chemical, Biological and Mechanical Testing
- Certified by Det Norske Veritas (DNV) : ISO 9001 : 2000 under UKAS Quality Management System
- Approved by Drugs Control Department N.C.T. of Delhi & Central Drugs Standard Control Organisation.
- Approved by Directorate of Indian System of Medicine and Homeopathy (ISM & H)
- Recognized by Department of Scientific & Industrial Research, Ministry of Science & Technology, Govt. of India as R & D UNIT
- Approved by Export Inspection Council of India/Export Inspection Agency (EIC / EIA)
- Recognized by Agricultural and Processed Food Products Export Development Authority (APEDA), Ministry of Commerce & Industry Govt. of India
- Approved by Russian Federation (FSVPS)
- Recognized by Spices Board of India
- Recognized by Bureau of Indian Standards (BIS)
- Recognized by Agriculture Marketing India (AGMARK)
- Recognized by State Pollution Control Board
- Identified among " The Top Four National Level Laboratories in India for food testing " by TUV SUD South Asia Comprehensive Study on Food Testing Infrastructure

# Research & Development

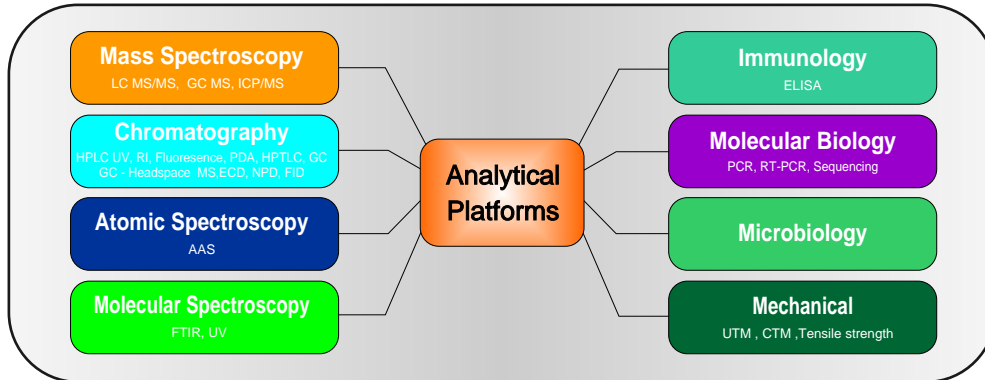
Research & Development: Highlighting innovation and adaptation for latest technologies

We at Arbro Analytical Division apply our technical acumen for problem solving by developing innovative methods. Our integrated and thoroughly scientific approach ensures cost effective solutions with reasonable time lines and specialized Technical Support:

- Support for dossier development for regulatory filing
- Product Development
- Reverse Engineering
- Shelf Life Estimation
- Stability Studies
- Method Development & Validations as per ICH/GCP guidelines



## Technology Platform



## Quality Assurance

At Arbro Analytical Division, Quality is defined in terms of various operational and functional parameters catered with standardized specifications and customer's needs. Our operations are meticulously monitored by internal Quality Assurance Department to assure GLP & GCP compliance. Our comprehensive SOPs provide the framework that assures compliance with highest standards.

Arbro Analytical Division has dedicated Quality Assurance Departments independently for all divisions controlled by Corporate Quality Assurance (CQA) with the following objectives:

- Maintain an effective Quality Assurance System complying with International Standards
- Achieve and maintain the level of quality which enhances the Company's reputation with customers
- Ensure compliance with relevant statutory and safety requirements
- Endeavor at all times, to maximize customer satisfaction with the services provided by the group



## Managing Customer Satisfaction

Arbro Analytical Division has built an impeccable reputation in India and a number of other countries in the field of contract testing and contract research services. With the objective of "Your satisfaction is our goal" our clients enjoy the privilege of "Total Satisfaction" in the light of excellent quality standards provided most economically.

Established in the year 1990  
Team of over 150 professionals  
Managed over 400000 Tests / annum successfully  
More than 7500 satisfied Clients  
LIMS Support





# Contract Testing Services

## Building and Construction Material

### Building and Construction Material

- Tensile strength, elongation, yield stress, bend, rebend and chemical test for all types of bars, strands, strips and wires
- Compressive strength of cement mortar cubes, cement concrete cubes, bricks and refractory materials
- Chemical testing of ferrous, non ferrous metals, alloys, minerals and ores
- Determination of physical and chemical characteristics of Soil & Rock
- Mix designing for cement concrete ratio
- Physical testing of coarse and fine aggregates



### Plastic Materials

Testing of containers for packaging as per IS specifications

### Textile Materials

Testing of textile material as per IS: 758

### Environmental Services

- Chemical and physical methods as per the applicable standards of ETP samples
- Ambient Air and Stack monitoring for toxic metals and hazardous gases
- Environmental chemistry, microbiology, toxicology, field sampling and site assessments
- Wastewater, potable water, groundwater and soil quality testing as per national and international standards
- Noise monitoring for offices, industries & D.G Sets
- Metrological Data Monitoring

## Environmental Services





## Contract Testing Services

### Inspection Services

Pre-shipment inspection services

Quality testing and analysis of products as per country's specific standards/international standards/contractual Specifications

Procurement inspection, Inspection during production

Quantity inspection and sampling

Plant Inspection & Audit for regulatory compliance

Collaboration with collateral Management Organisations



### Molecular Biology Division

Arbro Analytical Division has established an independent Molecular Biology Division for providing support to Analytical services & Manufacturing of PCR based diagnostic Kits. At present working with prominent institutions & organizations like Department of Biotechnology (DBT), Department of Science and Technology (DST) & All India Institute of Medical Sciences (AIIMS) to develop cutting edge analytical and diagnostic technologies

#### Services offered include

Rapid detection of pathogens in food by using Real Time PCR technology. Using this technology the results are available in 20hrs after receiving the sample as compared to 5-7 days using conventional microbiological tools

Qualitative and quantitative determination of Genetically Modified Organisms (GMO)

Determination of enteric viruses in drinking water

Confirmation of animal & plant origin by DNA analysis using RT-PCR

Manufacturing of PCR based diagnostic kits for diseases causing organisms like HBV, HCV and TB



# Contract Testing Services

## Drugs & Pharmaceuticals

### Drugs & Pharmaceuticals:

Licensed by Drugs Control Department, N.C.T. of Delhi & CDSCO

Analytical Method Development and Validation as per ICH guidelines

Pharmacopoeial analysis of actives and excipients as per IP, USP, BP, EP, JP, CP and other International Pharmacopoeias

Real time and Accelerated stability studies as per ICH guidelines

Dissolution studies for conventional and modified release preparations

Product development and optimization of existing formulations

Working standards for sale with national or international traceability

Microbial evaluation including MLT, sterility testing, preservative efficacy testing and LAL test



## Herbals & Ayurvedic Products

### Herbals & Ayurvedic Products:

Licensed by Directorate of ISM & H\*First Commercial Laboratory in India

Pharmacopoeial analysis of crude drugs and classical formulations for compliance with Ayurvedic Pharmacopoeia of India (API)

Indian Herbal Pharmacopoeia, EU Medicinal Plants Directive

Heavy Metal and trace metal analysis by ICP-MS, supported by Microwave digestion system

Fingerprinting and quantification of marker compounds using HPTLC, HPLC, GC

Pesticide residues and aflatoxins

Microbial evaluation



## Cosmetics

### Cosmetics:

Analysis of cosmetics as per BIS specifications, drugs & cosmetics act, other national & international standards

Microbial analysis of raw materials and finished products

Characterization of products by chromatographic profiles

Determination of prohibited or restricted ingredients in finished products

Verification of ingredient concentrations against supplier specifications

Product formulation problems/inconsistencies

Stability testing & Shelf life estimation

Fragrances, Colorants, Preservatives, Perfumes and flavors with allergic potential

Comparative analysis of different Brands



# Contract Testing Services

Food & Agricultural Products

## Food & Agricultural Products:

Analysis of Food & Agricultural products as per PFA, BIS, EIC/EIA, APEDA & European (EU) standards

Offer contract testing services to support your HACCP, ISO, GMP and GLP compliance

Analysis of residual pesticides, drugs and banned colorants in food products

Microbiological analysis, detection and identification of pathogens

Proximate analysis and nutritional labeling of food products

Shelf life estimation of packed foods

Fatty acids composition and trans fat content

Aflatoxins B1, B2, G1, G2, M1 and Ochratoxin in various matrices

Analysis of drugs residue, mycotoxins and vitamins by ELISA Techniques

MELAMINE TESTING services for a wide range of food products, agricultural products, raw materials and food ingredients

Residual Dioxine & Ethylene Oxide Testing by GC-MS Techniques

Alcohols/Alcoholic Beverages Analysis

Analysis of Grapes as per APEDA - RMP

Milk & Milk Products Analysis as per EIC norms

Spices & Condiments analysis as per Spice Board norms

GMO & Non-GMO by PCR/RT-PCR techniques

Confirmation of animal & plant origin by DNA analysis using RT-PCR

Adulteration of Basmati & Non-Basmati rice ( Variety Authentication )

Meat adulteration

Rapid detection of pathogens in food by using RT - PCR technology

Testing for compliance with national and international standards using globally accepted methods laid down by AOAC, ASTA, AOCS, CODEX, PFA, BIS, EU, USFDA



## Water Services

Packaged Drinking Water as per IS 14543

Packaged Natural Mineral Water as per IS 13428

Drinking Water, Potable & Domestic Water as per IS 10500

Industrial Cooling Systems as per IS 8188

Water for Boilers as per IS 10496

Water for process food industry as per IS: 4251

Residual Pesticide Analysis

Organic and Inorganic Constituents

Microbiological Quality of Water

Effluent Water as per IS 3550/ CPCB guidelines

Irrigation and Recreation Purpose Water for Swimming pool purpose as per IS: 3328

Water for Industrial Application like Food Processing Industry, Textile Industry & Paper Mill

Suitability for construction purpose as per IS: 456

Studies of ETPs and STPs as per Central Public Works Department (CPWD)

Water Services



# Contract Research Services



## Auriga Research Limited

Auriga is the new face of contract services offered by the group. Arbro has provided base to set up Auriga Research Limited as a dedicated & promising Contract Research Organization for providing clinical and analytical support including Bioavailability & Bioequivalence Studies and Clinical Trials as per ICH Guidelines. At present the center is audited & approved by DCGI for conducting BA/BE Studies. Its Clinical Pharmacology and Pharmacokinetics unit (CPP) has 30 bedded housing facility including 2 beds ICU.



### Our state of the art facility offers:

Bioavailability and Bioequivalence Studies including Fasting / Food Effect Studies, Interaction studies, Multiple dose and steady state studies etc

Complete Bio- Analytical Services

Clinical Trials Phase I to IV

Pharmacokinetics & Pharmacodynamic Studies

Clinical Trial Formulation Development & Manufacturing

Bio Analytical method Development and Validation

The BE BA studies at Auriga Research Limited (ARL) are carried out as per detailed internal SOP's and applicable regulatory guidelines. The Bio-Analytical activities are conducted at Auriga's Analytical Division

Continuing its glorious services Auriga Research Limited has setup a dedicated US FDA compliant Analytical Laboratory in Himachal Pradesh



## Branch Laboratory

### Baddi Himachal Pradesh

#### Infrastructure

A satellite laboratory has been established in the heart of the largest hub of pharmaceutical industry (Excise Free Zone) in Baddi, Solan district of Himachal Pradesh. It is the largest contract laboratory in the region and is coming up as a benchmark in the Field of Analytical Services with the following features:

Latest equipment like: HPLCs, GC with FID, ECD, NPD detectors & Headspace facility, FTIR AAS, and Viscometer etc

Ultra modern Microbiology Lab

A team of more than 30 seasoned professionals

Dedicated 6000 sq ft laboratory fitted with modular furniture

LIMS for data and sample management

100% Power backup

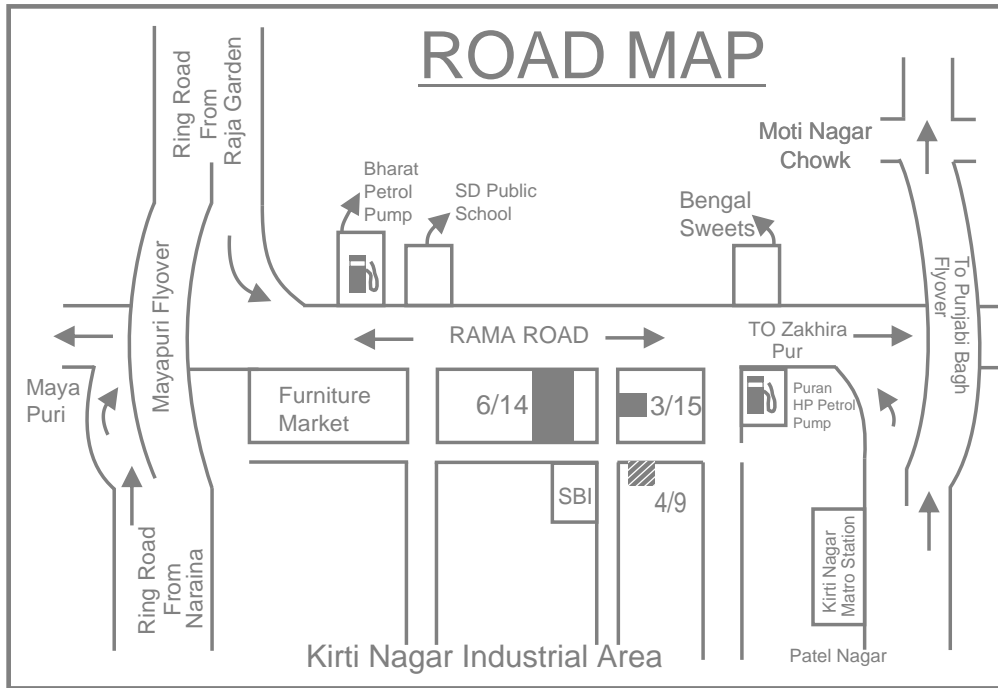


#### Training & Development

With the availability of world class infrastructure and best of manpower it was natural for us to venture into this key area. Our past initiatives in this direction have been well appreciated. Our programmes have covered aspects such as basics, methodologies and trouble shooting. It will be our constant endeavour to widen our scope and offer our services to our industrial counterparts and young aspirants who wish to enter the analytical field. We shall constantly upgrade our training modules in line with the new needs and challenges ahead so that we can provide leadership in this key area of development.



# Loacation







Arbro Analytical Division (R & D Center & Testing Laboratory)  
Auriga Research Limited (Contract Research Organization)  
Molecular Biology Division (Analytical Services & Diagnostic Kits)

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Website: www.arbropharmaindia.com

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