



ARBRO welcomes IGNOU
PGDFSQM Students
July 2014 Batch



Historical Landmarks

1985	Arbro Pharmaceuticals Pvt. Ltd.
1990	Commercial Testing Laboratory, New Delhi
1994	Arbro Pharmaceuticals Ltd.
2007	Auriga Research Ltd. Clinical Division
2009	Auriga Research Ltd. Baddi, Himachal Pradesh
2012	Auriga Research Ltd. Bangalore, Karnataka





Arbro Group

Arbro Pharmaceuticals Limited (New Delhi)

Leading Manufacturer and exporter of pharmaceutical formulations

Arbro Analytical Division(New Delhi)

**Commercial Testing Laboratory with world class
Research and Development facilities.**

Auriga Research Limited (New Delhi , Baddi & Bangalore)

**Leading Contract Research Organization & Commercial
Testing Laboratory**





Auriga Research -Vision & Mission

- **VISION:**

- To be among the top 5 contract research and testing organizations in Asia by 2015

- **MISSION:**

- To be a full service provider for contract research and analytical services across industries
 - To continually enhance the level of client satisfaction
 - To offer the most technologically advanced services to the industry
 - To expand our client base in India and International markets
 - To be recognized as a great place to work and grow professionally
- 



Our Websites

www.foodsafetyhelpline.com

www.testing-lab.com

www.lab-training.com

www.arbropharma.com

www.arbropharmaindia.com

www.aurigaresearch.com





Analytical Division





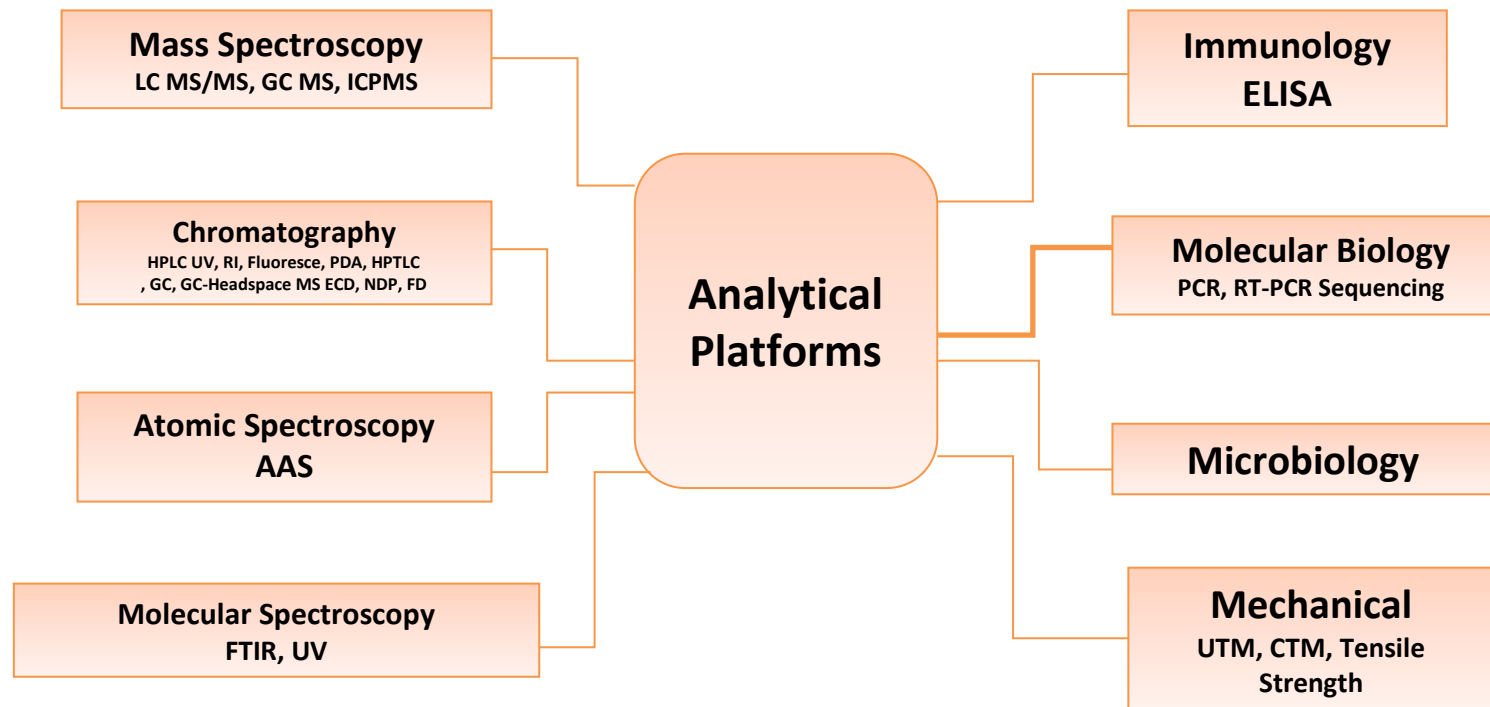
Scope of Testing

- Chemical
 - Mechanical
 - Biological
- 

Laboratory Accreditations & Approvals

1990	DSIR ,Govt of India ,Recognized In-house R & D
1995	FDA, India
1998	ISO 9001 : 2008
2004	Agricultural and Processed Food Products, Export Development Authority. (APEDA)
2004	Directorate of ISM & H
2005	Bureau of Indian Standards
2007	Export Inspection Council
2008	AGMARK
2009	Export Testing for Russia Global fund (Ground nuts, rice & Sesame oil
2012	Food Safety & Standards Authority of India (FSSAI)
MOU	United Nations Office for Project Services(UNOPS)

Analytical Platform



Backed by a team of over 250 seasoned professional

LIMS

- Advanced Laboratory Information Management System
- Providing online sample tracking and data management.



Scope of Services

- Food and Beverages
- Water
- Agricultural products including Rice, Grapes etc.....
- Heavy metals – trace analysis
- Natural toxins - mycotoxins
- Pesticides / insecticides residues
- Microbiology
- Drugs & Cosmetics
- Ayurvedic & Unani
- Homeopathic
- Effluents
- Ambient & stack air monitoring
- Construction and Building Material

List of Equipments

- ICP-MS
- LC MS/MS
- GC-MS-MS
- HPLC-UV, fluorescence & RI
- HPTLC
- GC-Headspace-FID
- GC-ECD,NPD
- Microwave reaction system
- UV- VIS Spectrophotometer
- AAS
- ELISA
- Viscometer Rotatory
- FTIR
- Stability chambers
- TOC
- Bomb calorimeter
- High Volume Sampler
- RSPM sampler
- Real Time PCR

Our Facilities

- Trace Metal Analysis (ppm - low ppb levels)
- Ayurvedic raw materials & finished products
- Unknown samples for total metal content
Drug samples
- Water – packaged drinking water, mineral water, raw water, effluent water & sludge
- Food products – milk and milk products, baby foods, body supplements, oils, rice, tea, sugar, honey, etc
- Rubber samples & Polymers
- Artificial jewellery
- Bioanalytical samples – Blood, Plasma, Tissue



ICP-MS

Our Facilities

LC-MS-MS



- BA / BE studies on biological fluid samples (plasma, serum, urine, etc)
- Analysis of Pharmaceuticals and cosmetics
- Residual pesticides, antibiotics, antimicrobial agents in food samples such as grapes, honey, milk, pomegranate, rice, meat, skimmed milk products, gelatin, etc
- Mass fragmentation analysis of peptides and pharma products
- Impurity profiling of pharma products.
- Melamine, Vitamins in food samples.

Medicinal Plants

- Botanical raw medicinal plant identification.
- Finished Herbal product finger printing (batch to batch variation)
- Herbal finished products input identifications. Foods, Pharmaceuticals & Cosmetics
- Synthetic food colors identification.
- Amino acid estimation in pharmaceutical products.
- Impurity profiles in pharmaceutical products.
- Method development and validation of Herbal products, food supplements and cosmetic products
- Related substance identification as per IP, BP, EP & USP requirements.

Our Facilities

HPTLC



Our Facilities

Real Time PCR



- **GMO testing of EIA food samples**
 - Basmati Rice
 - Soya products – soya flour, flakes, grit, lecithin
 - Maize
 - Rape seed
 - Peanut
 - Groundnut extract meal
 - Chick pea
- **Other party GMO samples**
 - Cotton
 - Liquid glucose
 - Xanthum gum
 - Corn starch powder
 - Maltodextrin powder
 - Wine
- **Meat identification**
- **Elisa testing of food samples**
 - Folic acid and vitamin B12
 - Aflatoxin M1 and aflatoxin total Gluten

Our Facilities

- Polyhydric alcohols in Pharmaceutical products
- Residual solvents in Pharmaceuticals products
- Organic volatile impurities using Head space
- Fatty acid methyl esters in food products.
- Essential oils
- Composition of Ayurvedic products.
- Chromatographic purity
- Related substances in pharmaceutical products.
- Pesticides in water, milk, honey, grapes, etc
- Unknown sample identification
- PAH and PCB in water samples

GC-MS-HS

LC-MS-MS

GC-MS-MS



Pharma Testing

- Microbial limit tests for raw and finished products
- Cyanacobalamin test assay
- Antibiotic assay
- Calcium pantothenate test
- Prebiotic & Probiotic enumeration
- Sterility test
- Bacterial endotoxin test
- Preservative efficacy test
- Environmental monitoring.

Our Facilities

Microbiology



Microbiology

Food, Water, Ayurvedic, Cosmetic Testing

- Total Bacterial count
- Coliform
- E. coli
- Salmonella
- Shigella
- S. aureus
- Faecal streptococci/enterococci
- Clostridium perfringens
- Clostridium botulinum
- Total yeast and mould count
- Pseudomonas aeruginosa
- Vibrio cholera
- Vibrioparahaemolyticus
- Enterobacteriaceae
- Listeria monocytogenes
- Bacillus cereus
- Fast sour spore count
- Mesophilic count
- Thermophilic count
- Thermophilic spore count
- Thermophilic anaerobic count
- Lactic acid bacteria
- Pantothenic acid

Our Facilities

HPLC



- **Pharmaceuticals - Tablets, Capsules, Liquid Preparations, Injections, Raw Materials, Ointments And Creams, Granules, Extracts, etc.**
- **Cosmetics – Soap and Detergents**
- **Preservatives (Sodium Benzoate and Potassium Benzoate), Cholesterol.**

Trace Metal Analysis (ppm levels)

- Ayurvedic raw materials & finished products
- Unknown samples for total metal content of Drug samples
- Water – packaged drinking water, mineral water, raw water, effluent water & sludge Food products – milk and milk products, baby foods, body supplements, oils, rice, tea, sugar, honey, etc
- Rubber samples & Polymers
- Artificial jewellery

Our Facilities

AAS



VAPODEST Rapid distillation System



Our Facilities

- Kjeldahl related distillations
- Automatic addition of reagents and titration acid
- Robust system is highly reliable

Our Facilities

- Fully automated fat and residue analysis
- The controller, Multistat, can control and monitor upto 4 units individually
- Determination of fat content with accuracy and reliability in milk and dairy products, cereals, meat products, chocolates, oil seeds, etc

SOXTERM EXTRACTION SYSTEM





Auriga Lab, Baddi





Chromatography Lab



FT - IR



Dissolution Lab



Wet Chemistry Lab



Incubator





**Bangalore lab awaiting registration number of
USFDA**

Pictorial Overview of Facility



- >>State of the art facility
- >>Controlled environment
- >>Designed for science

- >>22000 sq ft
- >>Systematic and secure

Wet Chemistry Lab



ICP-OES (Optima 8000)





**Laboratory
Oven**

Muffle furnace



Vacuum oven

Fume Hood



Elga Water purifier with 0.05 conductivity



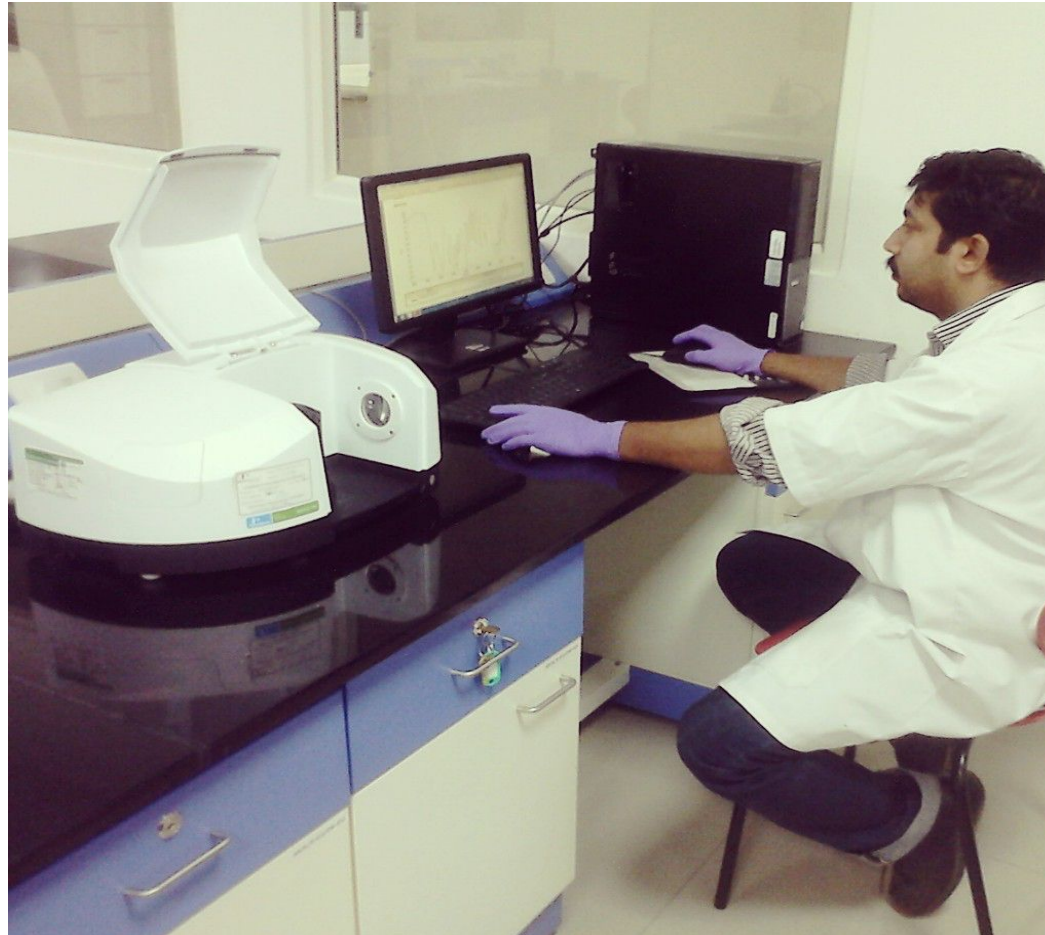
GC FID with Head Space



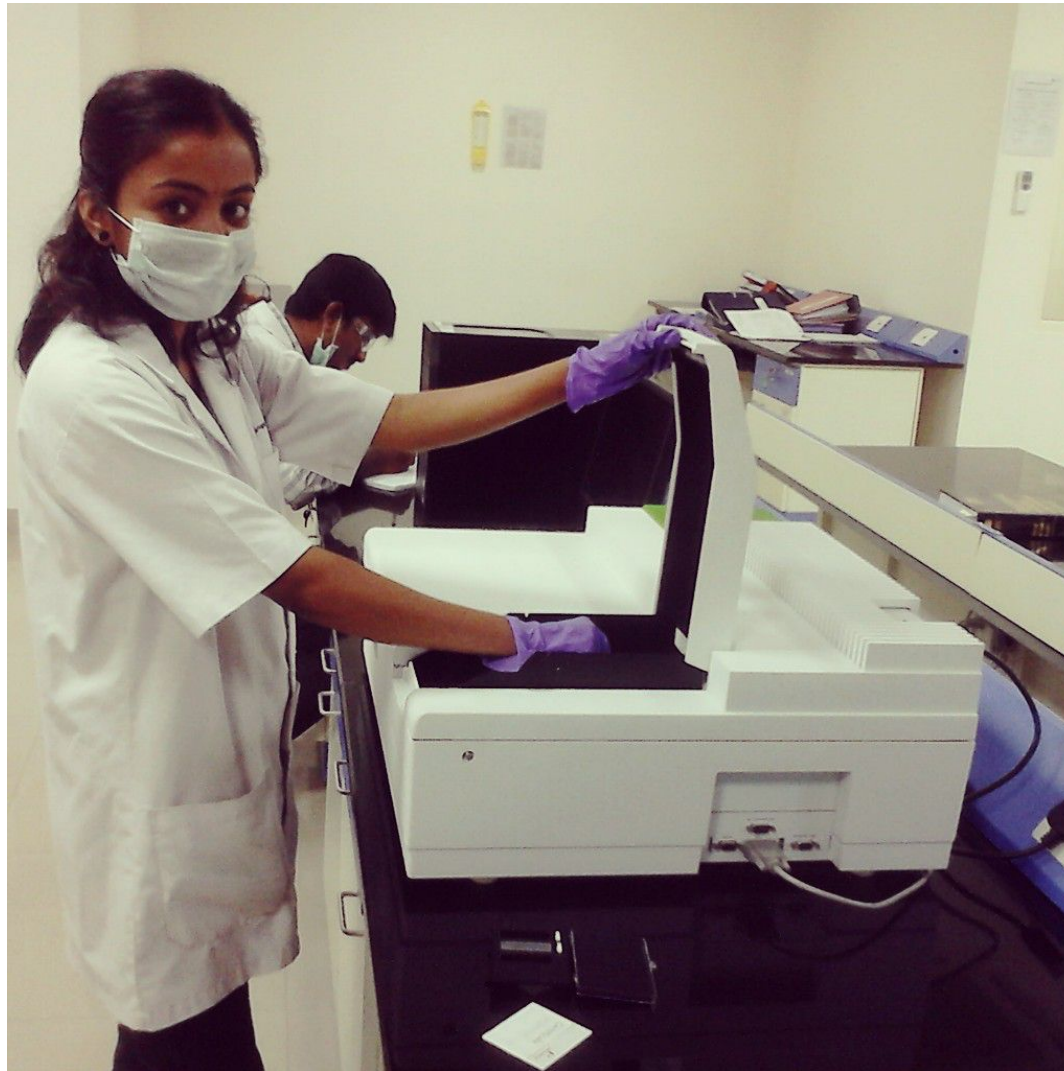
HPLC's with UV & FL Detector



FTIR / HATR



UV- Spectrophotometer



MICROBIOLOGY



Stability Chambers

- a) walk-in chambers
- b) Reach in chambers



>> 800 liters - 60°C & 60%RH
>> 700 liters - 50°C & 60%RH
>> 5000 liters - 30°C & 75%RH



>> 800 liters - 25°C & 60%RH
>> 500 liters - 40°C & 75%RH



Training and Development



www.Lab-Training.com





Online HPLC Training Course

Learn to run a HPLC by following our 18 step guide and watching online videos.

- Get a certificate on completion of the course
 - Strengthen your resume
 - Learn to use excel sheets for calculations and interpretation of HPLC data
 - 28 Videos
 - Test what you have learnt with our online Quiz
 - 14 Day 100% Money Back Guarantee
- 



Training Objectives

- We have world class infrastructure in terms of Human and Technical resources.
 - Our Training Programs are designed on SOP's and practical aspects.
 - Today a gap exists in University level basic education and skills needed in work place.
 - Our objective is to bridge the gap and groom the trainees to take up job responsibilities from day one.
- 



Training Collaborations

- Collaboration with IGNOU New Delhi, as Study centre for Practical Sessions on PG Diploma on “Food Safety and Quality Management”
- Project Training Centre for Students under Biotech Consortium India Limited (BCIL) Plan, Govt. of India





E-learning

- Free e-learning HPLC course launched .Encouraging response from across the globe
 - AAS Certificate programme ready for launch
 - Free e-learning courses and certificate programmes on other techniques under preparation
 - Registration open. You can register for the courses by providing details by entering details on our training site :
www.lab-training.com
- 



THANK YOU
***We look forward to a long
term association with you***