

Quality Control & Quality Assurance

Overview

QCA at IIM, Jammu has developed an expertise in the specialized area of Analytical Chemistry, Food Chemistry, Quality Evaluation of Natural/ Herbal products and finger printing of Herbal formulations. As such QCA Division is engaged in the analysis of trace elements, heavy metals, aflatoxins and pesticide and VMP's residues in honey, water, soft drinks, alcoholic and non alcoholic beverages, herbal drugs, walnut and other nuts/ products for domestic/ export market and other food items like spices and condiments and animal/poultry feed etc.

Mission and Goals

- To deliver basic and applied research outputs of international quality in selected branches of chemical and biological sciences.
- To render analytical services of highest quality associated with degree of professional satisfaction and confidence to the customer.
- To Meet the requirement of the standard ISO/IEC 17025:2005 and other criteria of NABL.
- All Laboratory personnel engaged in testing activities undertake to familiarize themselves with quality documentation and implement policies and procedures in their work.
- Societal :
 - Testing & Monitoring of Quality of portable water in the state
 - Assessment of industrials effluents especially effluents from pesticide industries and its effect on ground water table, crops & population residing adjacent to pesticide industry.
- Support to Scientists of IIM in their projects by way of quality testing/quantification of marker compounds in their products and product intermediates at various stages of R&D.

QC&QA - SERVICE TO HONEY INDUSTRY IN INDIA:

Service to honey industry in India (for export to European Union) by implementing Monitoring Residual Plan of EIC, particularly drug residues, pesticide residues and metal residues in honey as National Referral Laboratory for honey.

QCA (IIM) is monitoring the quality of honey exported to European Union by complete retesting and auditing of samples tested by:

1. Delhi Test House , Delhi
2. Shirram Institute for industrial Research, New Delhi
3. Arbro Pharmaceuticals Ltd., Delhi

Besides QCA (IIIM) is also retesting and auditing honey export houses in India i.e

- M/S Kashmir Apiaries, Ludhiana
- M/S Little Bee Impex, Ludhiana
- M/S Apis India Natural Products, Delhi
- M/S Beez India Natural Products
- M/S M.B. Exim (P) Ltd., Saharanpur
- M/S Shakti impex, Baddi
- M/S Ambrosi apiaries, Delhi

QC A is recognized / awarded as follows:

- NABL accredited laboratory for chemical testing as per ISO: 17025- 2005
- National Referral Laboratory for testing of honey for export to European Union (APEDA / EIC)
- Referral Laboratory for testing of biopesticides (DOB)
- Referral Laboratory for testing of ISM drugs (AYUSH)

3. Competencies

- Research and Development activity primarily focused on development of analytical methods of analysis and testing of organic and inorganic materials
- Identification and authentication of Medicinal & Aromatic Plants
- Quality Control and evaluation of herbal drugs
- Quality Control of Essential oils
- Quality control of Food products
- Analysis of portable water and municipal wasters (Chemical and biological)
- Analysis of minerals
- Analysis of pesticides& pesticide residue
- Analysis of microbial load / pathogens and toxins in food and water

4. People/Staff (including P.A / F.A.)

S.No.	Name	Designation	Qualification
1.	Dr. J.K. Dhar	Scientist – F, Head QCQA	M.Sc. Ph.D
2.	Mrs. G. Mehta	Scientist – E-I	M.Sc.
3.	Mrs. K. Sharma	Lab. Asstt.	B.Sc.
4.	Mrs. S. Kumari	Lab. Asstt.	B.Sc.
5.	Ms. Shevta	Project Asstt.	B.E (Electronics &

			communication)
6.	Mrs. Bhavana	Project Asstt.	MCA
7.	Mr. Gourav Sharma	Project Asstt.	MSc. (Agri)
8.	Mr. Imran Khan	Project Asstt.	M.Sc. Organic chemistry
9.	Mr. Sunny Kumar	Project Asstt.	M.Sc. Organic Chemistry
10.	Ms. Priya Wazir	Project Asstt.	M.Sc. Organic Chemsitry
11.	Ms. Niha Raina	Project Asstt.	B.E. Computer Science
12.	Mr. Arvind Raina	Project Asstt.	M.Sc. Biotechnology
13.	Mr. Indu Paul	Field Asstt.	M.A
14.	Mr. Rakesh Kumar	Field Asstt.	B.Sc
15.	Mr. Ashok Kumar	Field Asstt.	10+2

5. Area of Research

- Method development & validation
- Residual analysis of Veterinary medicines, Pesticides, Metals & Aflatoxin in all products/matrixes for human consumption or otherwise.

6. Facilities

A special feature of the division is that it is fully modernized with a state-of-art analytical, testing equipments and quality control facilities.

MAJOR EQUIPMENTS

GC-MS/MS (Thermo-finnigan).



GAS CHROMATOGRAPH (SHIMADZU)



HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

(SHIMADZU LC-10AT CLASS UP SERIES, WATERS)



HPTLC (CAMAG)



LC-MS/MS (Waters (LC2695) PDA 2996)



ATOMIC ABSORPTION SPECTROPHOTOMETER

(Perkin Elmer Analyst-800)



ION ANALYZER AND AUTO CHEMISTRY SYSTEM

(ORION- 960 INCLUDING EA 940, PH & ION ANALYZER)



MICROBIAL LAB



7. Current Research

- Method development /validation for analysis of herbal & herbal products, water, soft drinks, alcoholic and non alcoholic beverages, walnut and other nuts/ products for domestic/ export market and other food items like spices and condiments and animal/poultry feed etc.
- Method development and validation for Residual analysis of Veterinary medicines, Pesticides, Metals & Aflatoxin in all products/matrixes for human consumption or otherwise.

8. Projects

1. GAP-0195 - Residual monitoring for drugs, pesticides and metals in Honey funded by EIC
2. CNP- 0398 - Assessment of honey for export (residual analysis) Kashmir Apiaries Export, Ludhiana
3. MLP -3003 - Major Laboratory Project Quality Assurance

9. Contact

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