

# HERBAL ANALYSIS SERVICES



- Protein Extraction Services
- Protein Purification
- Protein Estimation
- Protein Electrophoresis & Blotting
- Protein Identification Services
- Amino Acid Analysis



Helpline: + 91 - 09891179928

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## HERBAL PRODUCT QUALITY ANALYSIS

Essential oils are high-value ingredients extracted from plants. They are not only used in cosmetics, but also in many food and feed applications for their flavouring and preservative properties. The purity of an essential oil is its most important characteristic.



### OUR SERVICES:

**Our highly qualified team of analytical chemist, microbiologist, fragrance chemist and technicians** offer laboratories an extensive range of modern and integrated solutions enabling them to automate their analyses whether it be for R&D, processes or quality control.

- **Pesticide Residue analysis**
- **Testing of Aflatoxins – B1, B2, G1 and G2**
- **Testing of other Mycotoxins**
- **Estimation of trace level heavy metals**
- **Impurity Analysis**
- **Qualitative & Quantitative Analysis**
- **Estimation of Trace level analysis**
- **Self Life Studies**
- **Vitamins analysis**
- **Endotoxin testing using LAL method**
- **Microbiological Analysis**
- **Method development of assay testing**
- **Quality standard development**

**Evaluation of Physico-Chemical Characteristics;** Loss on drying, pH, Moisture, Refractive Index Swelling index, Ash value, Extractive value, Foreign matter, Saponification value, Acid value, Day-light Vs UV examination

### TECHNOLOGIES AND FACILITIES

Analysis by GC-MS-MS, Triple Quadrupole, Gas Chromatograph ( FID, FPD and NPD Detectors ), Analysis by LC-MS-MS, Analysis by HPLC - PDA, FLD Detectors, TLC, HPTLC, UV-Visible spectrophotometer, ELISA, PCR & Real Time PCR, Sequencing, Ion Meters, RI Detector, Flash Point Apparatus etc.

## **BOTANICALS IDENTITY & QUALITY**

Essential oils are high-value ingredients extracted from plants. They are not only used in cosmetics, but also in many food and feed applications for their flavouring and preservative properties. The purity of an essential oil is its most important characteristic.



## **OUR SERVICES**

With access to the latest trends in the fragrance industry, we are always ready to help you develop the latest scents to boost your fragrance business.

### **IDENTITY ANALYSIS**

- **Taxonomy Analysis**
- **Morphological Analysis**
- **Organoleptic Examination**
- **Chemical Fingerprinting by HPLC, GC, TLC & HPTLC**
- **DNA Analysis ; DNA Barcoding or Fingerprinting**
- **Quantitative Analysis By Spectrometry**

### **PHYSICAL CHARACTERISTICS ANALYSIS**

- **Moisture Content Analysis**
- **Particle Size**
- **Soil Content Analysis**
- **Foreign Organic Material**
- **Refractive Index**
- **Other Physical Characteristics; Loss on drying, Swelling index, Ash value, Extractive value, Saponification value, Acid value**

### **CHEMICAL CHARACTERISTICS & CONTAMINANTS ANALYSIS**

- **Aflatoxins & Other Mycotoxins Analysis**
- **Pesticide Residue Analysis**
- **Heavy Metal Limit Test**
- **Impurity Analysis**
- **Microbial Contamination Analysis**

### **TECHNOLOGIES AND FACILITIES**

Analysis by GC-MS-MS, Triple Quadrupole, Gas Chromatograph ( FID, FPD and NPD Detectors ), Analysis by LC-MS-MS, Analysis by HPLC - PDA, FLD Detectors, TLC, HPTLC, UV-Visible spectrophotometer, ELISA, PCR & Real Time PCR, Sequencing, Ion Meters, RI Detector, Flash Point Apparatus etc.

## HERBAL RESEARCH & DEVELOPMENT

The first step in any study investigating genetic differences in an organism of interest is the purification of the nucleic acid extraction teams at Allele Life Sciences provides DNA and RNA extraction services to meet the demands of



## PHYTOCHEMICAL ANALYSIS :

This involves detection of alkaloids, polyphenols, flavonoids, tannins, saponins, terpenoids, glycosides, proteins and amino acids, etc through systematic phytochemical analysis of various whole plants or their parts (leaf, bark, seed, root, fruit, flower, latex, gum and resin, etc

## IDENTIFICATION & PHYSICAL CHARACTERISTICS ANALYSIS

This involves macroscopic / organoleptic characteristics including colour, odour, taste, size, shape, texture, Loss on drying, reflective index, swelling index, Ash value, Extractive value, Saponification value, Acid value

## PREPARATION OF CRUDE EXTRACT

We prepare crude extract by Simple extraction (maceration, percolation, infusion, digestion and decoction), fermentation, Distillation for oils, Microwave-assisted extraction, Ultrasound extraction, Soxhlation & Drying

## EXTRACTION & ISOLATION

Our extraction and isolation technique includes; Solid Phase Micro Extraction, Liquid Phase Extraction, Supercritical Fluid Extraction, Isolation by Column Chromatography, Activity Guided / Bioassay Guided Fractionation, Isolation by HPLC, GC, TLC, HPTLC

## IN-VITRO HERBAL DRUG SCREENING

Our in-vitro herbal screening are Antibacterial Screening, Anti-fungal Screening, Antioxidant Screening, MTT or Bio Assay For Drug Screening , Enzyme Inhibition Studies

## PHYTO CHEMICAL ANALYSIS BY HPLC, GC, TLC, HPTLC, MASS SPECTROMETRY & SPECTROMETRY

## HERB AND DRUG INTERACTION STUDIES

## QUOTATION & ORDERING :

For quotation request mail at : [mail@allelelifesciences.com](mailto:mail@allelelifesciences.com) or  
Call - + 91 - 9891179928

Helpline: + 91 - 09891179928

[mail@allelelifesciences.com](mailto:mail@allelelifesciences.com)

## SAMPLE SUBMISSION FORM

### CUSTOMER INFORMATION

Name :

Address :

Phone :

E.mail :

### SAMPLE INFORMATION

#	Analysis Required	Sample Information	No. of Samples	MSDS
				Y/N

### ANALYSIS INSTRUCTION

### AUTHORIZATION SIGNATURE

### DATE

For Office Use Only	Comment	
Received By		Date
Forwarded to		Date

### MSDS QUESTIONNAIRE

Helpline: + 91 - 09891179928

[mail@allelelifesciences.com](mailto:mail@allelelifesciences.com)

<b>Description of Sample(s):</b>	
<b>Material Composition/List of Ingredients?</b>	
<b>Is License required to handle sample?</b>	
<b>Is the sample a Biological Agent?</b>	
<b>Is Sample Radioactive?</b>	
<b>Physical Characteristics?</b>	
<b>Hazard/Transportation Labels?</b>	
<b>Does your Institution specify any specific Personal Protective Equipment (PPE) to your staff for handling sample(s)?</b>	
<b>Does your company specify any specific Sample Containment?</b>	
<b>Does your company specify any specific Sample Containment?</b>	

#### **OTHER INSTRUCTION**