

# TRAINING IN COSMETIC CHEMISTRY

## Ist Week - Basics of Cosmetic Analysis Lab & Analytical Procedures

Day 1: Lab safety and Procedures , Regulatory Compliance of Cosmetics

Day 2: Sterilisation Techniques , Reagent Preparation, Buffers, Acid-Base Equilibrium

Day 3: pH, Buffer System, Charge,  $P_i$  and  $pK_a$ , Value

Day 4: Titrations procedures for cosmetic samples

Day 5: Fraction & Steam distillation procedures



## IIInd Week - Cosmetic Microbial Analytical Procedure

Day 1: Simple & Serial Dilution, Moles and Molar Solutions

Day 2: Sterility Check : Procedural Blank , Media Blank , Field Blank , Positive & Negative Control Cultures

Day 3: Enumeration of Microbes & Colony Counting in cosmetic sample

Day 4: Growth Curve Analysis of Microbial Culture

Day 5: Colony Morphology & Survival Analysis



## IIIrd Week - Extraction & Analytical Techniques of Cosmetics

Day 1: Classical Extraction - Direct Extraction, liquid liquid extraction, solid-liquid extraction

Day 2: Solid - phase Microextraction, Ultrasound-assisted extraction

Day 3: Analysis by Thin Layer Chromatography

Day 4: Determination of Hydroquinone in Cosmetics

Day 5: Determination of Methyl Paraben from Cosmetics



## IVth Week - Cosmetic Sample Analysis by HPLC & Gas Chromatography

Day 1: Basics of High Performance Liquid Chromatography & Gas Chromatography

Day 2: Software, application in HPLC and Data Analysis

Day 3: Software & Its application in Gas Chromatography

Day 4: Sample, Standard and Solvent Preparation for HPLC

Day 5: Sample Run & Data Analysis



## Vth Week - Project Work

We will share our ideas and decide for small piece of research in limited time frame.

**Cost of Training :** Training Only -INR 10,000 / -  
Training + Project - INR 12,000/-

**Duration :** 80 to 100 Hrs or 4 to 6 Weeks



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