



ANALYTICAL TESTING

Regulations on cosmetics and personal care products vary between countries with a common goal in mind, which is ensuring product safety, quality, and effectiveness. Acne and sunscreen products, for instance, are regulated as non-prescription drugs or natural health products in Canada and are classified as over-the-counter (OTC) drug products in the USA, but are considered cosmetics in the EU.

- FDA 21 CFR (USA)
- Food and Drugs Act, CRC c.869 (Canada)
- Cosmetic Regulation (EC) 1223/2009 (EU)

Good Manufacturing Practices (GMP) of cosmetic products are mandatory in the EU (European Union's new Regulation (EC) No 1223/2009), and highly recommended by the United States and Canada. Eurofins Cosmetics & Personal Care worldwide network of laboratories offers several test methods and tailored protocols according to Good Manufacturing Practices ensuring the safety of the product for human use. Examples of our offerings are listed below:

PHYSICAL TESTING

The mechanical properties of the products are evaluated including:

- Appearance, color, odor
- pH value
- Density
- Viscosity
- Specific Gravity
- Melting point
- Flash point
- Moisture content

STABILITY TESTING

Stability studies help to ensure the product and packaging retain their quality and are not impacted during the designated lifespan. Samples are stored in validated and monitored chambers under different conditions and removed at pull points for analysis to determine chemical stability and microbiological activity.

Stability protocols are client specific and tailored to specific products and their applications per established SOPs and guidelines. The conditions include but are not limited to 25°C/60%RH, 30°C/65%RH, 30°C/75%RH, 40°C/75%, freeze thaw and photo-stability.

RESTRICTED AND FORBIDDEN SUBSTANCES TESTING

Eurofins provides its clients with the best solution and techniques to ensure product safety.

Elemental Impurities: Heavy metals including Mercury, Arsenic, Cadmium, and Lead are not used in cosmetic products, but may be introduced into the manufacturing process through equipment or raw materials. Eurofins offers Inductively Coupled Plasma - Optical Emission Spectroscopy (ICP-OES) and Inductively Coupled Plasma - Mass Spectrometry (ICP-MS) techniques for single or multi-element analysis.

Examples of other impurity analysis performed by our laboratories include: 26 to 54 Allergens, 1,4-Dioxane, Gluten, Formaldehyde, Parabens, Phthalates, Diethylene Glycol, Residual Solvent, Pesticides and etc.

ACTIVE SUBSTANCES TESTING

Eurofins offers a wide range of active ingredients analysis for personal care and cosmetic products.

Vitamin Quantification: Vitamin A Retinol and Niacinamide are examples of vitamin analysis.

Sunscreens: Zinc Oxide, Titanium Dioxide, Homosalate, Octocrylene, Oxybenzone, etc.

PRODUCTS COVERED

A wide range of products (raw materials and finished products) are tested by our experts including:

- Sun Care: Sunscreen, After-sun care
- Hair Care: Shampoo, Conditioner, Colorant
- Skin Care: Facial, Hand and Body Care, Face Mask, Cleanser, moisturizer
- Bar & Liquid Soap, Shower Gel
- Lip product, eye make-up, nail products
- Oral Care: Toothpaste, Mouthwash, Dental Floss, Tooth Whitener
- Fragrances: Perfume, Body Spray.



Cosmetics &
Personal Care

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