

# STABILITY TESTING FOR CONSUMER PRODUCTS

ENSURING SAFETY. ENSURING PERFORMANCE.

Stability testing evaluates how cosmetic products maintain their physical, chemical, micro and sensory properties through time under the influence of environmental factors such as temperature, humidity, and light.



## 1 TYPES OF STABILITY TESTING



### LONG TERM TESTING

Evaluates product stability under normal storage conditions over an extended period of time.

Example: 25°C / 60% RH



### ACCELERATED TESTING

Evaluates product stability under elevated conditions to predict long term stability in a shorter time.

Example: 40°C / 75% RH



### INTERMEDIATE & STRESS TESTING

Additional studies to evaluate the effect of temperature excursions, freeze-thaw cycles, light exposure, etc.

Examples: 5°C, 45°C, Freeze-thaw, UV/Visible light, Humidity stress

## 2 THE STABILITY TESTING PROCESS



**1. SAMPLE SELECTION**  
Representative batches of the cosmetic product are selected.



**2. STORAGE UNDER CONTROLLED CONDITIONS**  
Samples are stored under defined temperature, humidity and light conditions.



**3. TESTING AT DEFINED INTERVALS**  
Samples are tested at regular intervals for critical quality attributes.



**4. DATA ANALYSIS**  
Results are analyzed to determine product stability and shelf life.



**5. REPORTING**  
A comprehensive report supports product claims, regulatory submissions and decision making.

## 3 KEY PARAMETERS EVALUATED



**PHYSICAL & CHEMICAL PROPERTIES**  
Appearance, color, odor, pH, viscosity, density, heavy metal content, and more.



**MICROBIOLOGICAL QUALITY**  
Total microbial count, yeast & mold pathogen testing, preservative efficacy.



**PACKAGING COMPATIBILITY**  
Compatibility of formula with primary packaging, closure performance, leachables, permeation, etc.



**SENSORY ATTRIBUTES**  
Texture, spreadability, absorption, glow, fragrance, color stability, etc.

## 4 WHY IT MATTERS



**CONSUMER SAFETY**  
Ensures products are safe and well tolerated during and throughout their shelf life.



**BRAND TRUST**  
Delivers consistent performance and enhances consumer confidence.



**REGULATORY COMPLIANCE**  
Meets global regulatory requirements (EU Cosmetics Regulation, ASEAN, FDA, etc.).



**COST & TIME EFFICIENCY**  
Decreases product development and reduces reformulation risk and waste.



**QUALITY TODAY.  
CONFIDENCE TOMORROW.**

With global laboratories, scientific expertise and regulatory knowledge, **Bureau Veritas** supports your products at every step of their lifecycle. We test. You deliver with confidence.



**YOUR PARTNER FOR  
PRODUCT SAFETY,  
QUALITY & COMPLIANCE**

## Interested in Stability Testing Services?

For more information you can visit:  
<https://galbraith.com/services/stability-testing/>

Alternatively, you can contact us at:  
[labinfo@galbraith.com](mailto:labinfo@galbraith.com)

