

# Technical Data Sheet: Clobetasol Test Kit

**Product Code:** SS-ST-02

**Brand:** SURE Scientific

**Application:** High-potency corticosteroid screening for illegal Clobetasol Propionate in cosmetics.

## 1. PRODUCT OVERVIEW

The **SURE Scientific Clobetasol Test Kit** is a highly specialized, field-optimized screening tool designed for the preliminary qualitative detection of Clobetasol Propionate. Clobetasol Propionate is an ultra-high-potency corticosteroid frequently added illegally to skin-whitening products due to its rapid anti-inflammatory effects. Utilizing a multi-step reaction chemistry, this kit allows consumers and health officers to perform rapid, reliable on-site product safety audits.

## 2. KEY FEATURES

- **Target Specificity:** Tailored explicitly to detect high-potency Clobetasol Propionate in cosmetics.
- **Exceptional Formulation Stability:** Extensive laboratory validation demonstrates that this formulation is highly stable and resistant to common cosmetic interferences.
- **Rapid Turnaround:** Delivers a clear chromogenic shift within a 1–2 minute field window.
- **Standardized Workflow Capacity:** Configured to accommodate exactly 20 independent sample screenings per kit package.

## 3. KIT COMPONENTS

Each single kit package provides all necessary materials to execute 20 independent test cycles:

- **Test Reagent 1 (1 Dropper Bottle):** Proprietary baseline conditioning solution.
- **Test Reagent 2 (1 Dropper Bottle):** Proprietary chromogenic indicator active solution.
- **Test Vessels:** Disposable plastic polystyrene spoons for clean sample mixing.
- **Standard Color Chart:** High-fidelity visual color reference gradient printed directly on the exterior packaging envelope.
- **Instruction Manual:** Step-by-step user field operation guide.

## 4. TECHNICAL SPECIFICATIONS

| Parameter                | Specification                                             |
|--------------------------|-----------------------------------------------------------|
| Detection Method         | Colorimetric (Visual Color Development)                   |
| Target Analogues         | Clobetasol Propionate                                     |
| Limit of Detection (LOD) | ~0.02% w/v, 200 mg/kg (ppm)                               |
| Testing/Reaction Time    | 1-2 minutes                                               |
| Kit Capacity             | 20 samples per kit package                                |
| Sample Matrix            | Topical cosmetic creams, and skin-whitening lotions       |
| Operating Temperature    | 20–35 °C (Ambient)                                        |
| Storage Temperature      | 2–8 °C (Keep refrigerated for optimal reagent shelf-life) |
| Shelf Life               | 12 months from manufacture (at 2-8 °C, unopened)          |

## 5. INSTRUCTIONS FOR USE

1. **Sampling:** Using a clean testing spoon, place a pea-sized scoop of the cosmetic cream into the center of the spoon bowl.
2. **Sequential Reagent Addition:**
  - Dispense exactly 1 drop of Reagent-1 directly onto the cream sample.
  - Immediately follow by adding exactly 1 drop of Reagent-2 directly onto the same sample.
3. **Homogenization:** Thoroughly mix the reagents into the cosmetic matrix using the tip of a clean sampling tool for 10–20 seconds.
4. **Incubation:** Allow the mixed reaction to stand undisturbed at ambient temperature for 1–2 minutes.
5. **Evaluation:** Read the developed color profile immediately against the standard color chart printed on the envelope packaging.

## 6. RESULT INTERPRETATION

Read all outcomes under a bright, natural, or stable white LED light source:

- **NEGATIVE:** No significant color change is observed; the solution remains clear or retains its original baseline appearance. This indicates that Clobetasol Propionate is either entirely absent or resides below the kit's qualitative detection limit.
- **POSITIVE:** The colorless sample mixture shifts distinctly into a vibrant Pink color inside the incubation window. This visual transition indicates a presumptive positive contamination state for high-potency steroids.
- **Critical Operational Notes**
- **Validated Anti-Interference:** This kit will NOT produce false positives when exposed to common cosmetic active ingredients, including Vitamin C, Retinol, and Pro-Retinol A.
- **Chemical Filter Constraints:** Extreme concentrations of certain synthetic chemical UV filters present in specialized sunscreens may theoretically trigger a false-positive pink color.

## 7. STORAGE AND STABILITY

- **Transport Status:** Stable at ambient temperatures during standard shipping transit windows.
- **Long-Term Storage:** Keep refrigerated at 2–8°C immediately upon arrival. Do not freeze.
- Keep away from direct sunlight and extreme heat to prevent reagent degradation.
- Ensure the caps of Reagent bottles are tightly sealed immediately after use to prevent evaporation and air oxidation.

## 8. SAFETY AND HANDLING

- **First Aid:** In case of skin or eye contact, rinse immediately with plenty of water. If irritation persists, seek medical advice.
- **Disposal:** Dispose of used test spoons and chemical waste in accordance with local environmental regulations.

## 9. LIMITATIONS AND LEGAL DISCLAIMER

- **Presumptive Screening Only:** This kit serves exclusively as a qualitative screening tool for preliminary on-site detection. It is NOT a confirmatory analytical device, a quantitative validation tool, or legally binding evidence of contamination.
- **Confirmatory Requirements:** Do not execute legal penalties, destroy commercial inventory, or publicly accuse suppliers based solely on these screening outcomes. A positive screening result must be validated by an accredited testing facility using gold-standard quantitative instrumentation such as High-Performance Liquid Chromatography (HPLC) or GC-MS
- **Liability Limitation:** SURE Scientific's commercial liability is strictly restricted to product replacement or a direct refund of the kit packaging purchase price. The manufacturer explicitly disclaims all civil or financial liability for commercial revenue drops, subsequent health outcomes, or legal outcomes resulting from field testing actions.

## MANUFACTURER INFORMATION

SURE Scientific Co., Ltd.

Contact/Support: [www.facebook.com/mercurytestkit](https://www.facebook.com/mercurytestkit)