Frescolat® X-Cool
Menthol derivative

GALVANIZING REFRESHER

LONG-LASTING COOLING
ODORLESS & EASY TO FORMULATE
Imagine if you could feel the energy of a perfect radiant skin

Radiance is no longer solely the ultimate benefit of a perfect smooth skin texture. It is also a sign of skin health and vitality. Now, imagine if consumers could actually experience an energizing sensation when applying their favorite beauty cream!

Symrise has developed a powerful L-Menthol derivative to produce an intense cooling and stimulating sensation, improving the impression of a toned up skin. The skin is galvanized by an instant and long-lasting sensation!

65% of consumers worldwide are looking for strong to very strong freshness.

96% want their skin to be full of energy.

90% agree that when they feel cool they feel more energized.

CMI Data Source: Symrise Cosmetic Ingredients consumer data base
SIGNALING SKIN THERMO-RECEPTORS TO GENERATE A PURE SENSATION OF VITALITY RECHARGE
Frescolat® X-Cool
THE INVIGORATING FRESHENER

<table>
<thead>
<tr>
<th>Benefits</th>
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<tr>
<td>Instant Energy Sublimator</td>
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<tr>
<td>Invigorating Fresh Feeling</td>
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<tr>
<td>Lasts at least 30 min!</td>
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<td>Efficacy Marker</td>
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<td>Firming Booster</td>
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<tr>
<td>Detox</td>
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<tr>
<td>Freshness</td>
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<tr>
<td>Without Menthol Odor</td>
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<tr>
<td>Patented</td>
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<td>Easy to Formulate</td>
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WRAP YOUR SKIN INTO A FRESH ENERGIZING MIST!

MAIN APPLICATIONS

FORMULATION WITH PH IN THE RANGE 3 - 7:

- HYGIENE PRODUCTS
- DEODORANTS (ROLL-ON, SPRAY) ANTI-PERSPIRANTS
- FACE CARE / BODY CARE
- WET WIPES
- MOUTHWASH

IDEAL TO CREATE THE SENSATION OF AN IMMEDIATE TRANSFORMATION OF YOUR SKIN
**Frescolat® X-Cool TRIGGERS AN INSTANT AND LONG LASTING COOLING SENSATION ASSOCIATED WITH VITALITY**

**BOOSTING THE ENERGY SENSATION**

Significant feeling of energy sensation in a BB Cream.

Self assessment questionnaire on efficacy (5 step ordinal type scale from agree to disagree)

**PROTOCOL**

NUMBER OF SUBJECTS: 50 WOMEN AGE 25-35
LOCATION: HONG-KONG (HOME USE, FRONT FACE INTERVIEW, PAPER QUESTIONNAIRE)
CONDITIONS: SINGLE-BLIND APPLICATION OF EITHER THE BB CREAM WITH 1% Frescolat® X-Cool OR THE PLACEBO BB CREAM ON THE FACE, IN THE MORNING.
WASHOUT PERIOD WITH NO APPLICATIONS = 3 DAYS.
SINGLE-BLIND APPLICATION OF THE SECOND BB CREAM ON THE FACE, IN THE MORNING.
ASSESSMENT IMMEDIATELY AFTER APPLICATIONS.

**STRONG REFRESHING EFFECT**

Expert panelists conclude that an o/w emulsion containing 0.5% Frescolat® X-Cool generates 82% of additional freshness versus Frescolat® ML at the same concentration.

**PROTOCOL**

NUMBER OF SUBJECTS: 20 EXPERT TRAINED PANELISTS (ACCORDING TO NF ISO 8586-1 AND NF EN ISO 13299)
CONDITIONS: SIMULTANEOUS APPLICATION OF 2 SAMPLES (PLACEBO AND THE CREAM CONTAINING THE ACTIVE MATERIAL) ON BOTH FOREARMS
EVALUATION OF THE INTENSITY OF THE COOLING EFFECT WITHIN 30 MIN
**LONG-LASTING SENSORIAL SIGNAL**

An emulsion containing 1% Frescolat® X-Cool delivers a strong and highly significant immediate and long-lasting sensorial signal on the skin.

**PROTOCOL**
NUMBER OF SUBJECTS: 20 PANELISTS
CONDITIONS: “HALF-FACE TEST”:
SIMULTANEOUS APPLICATION OF 2 SAMPLES (0.30G) - PARALLEL ASSESSMENT
EVALUATION OF THE INTENSITY OF THE COOLING EFFECT DURING 30 MIN

**CLINICAL STUDY EFFICACY DATA**

![Graph showing cooling intensity over time for Placebo and 1% Frescolat® X-Cool](image)

**SYMRISE INNOVATION**

The neuro-sensory mechanism by which cooling agents such as menthol elicit the same cooling sensation as low temperatures was elucidated with the discovery of the TRPM8 receptor.

Frescolat® X-Cool is the fruit of an intensive TRPM8 screening using molecular biology approach. It has been selected as a powerful cooling agent capable of generating a long-lasting sensory signal to the brain.
Frescolat® X-Cool
INCI: Menthyl Ethylamido Oxalate

Product number
370610

Formulation details
Recommended use level: 0.1 - 2.0%
Clear colorless to yellow-green liquid, odorless in formulations, soluble in fatty acid esters, alcohol and glycols, pH stable between 3 and 7, temperature stable up to 70°C (up to 100°C during 5 hours)

Main applications
Hygiene products, deodorants (roll-on, spray) and antiperspirants, face and body care, wet wipes, mouthwash

Awards
2012: BSB Innovation Award as “Most Innovative Raw Material - Naturals/Actives” - 3rd place

Visit SymSelect® to request samples and discover new ingredients. Scan code or visit www.symselect.com

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