ACTIVATED CITRUS PEEL EXTRACT (ACPE)
"THE WONDERS OF GRAPEFRUIT PEEL AT YOUR SKIN'S DISPOSAL"

Description

ACPE is a natural, active ingredient which offers a highly potent antimicrobial skin protection suitable as a blemished skin relief (stay-on) antimicrobial protection. ACPE is water extracted from citrus fruit peels. It is the utmost utilization of Grapefruit Peel's renowned health related characteristics.
ACPE is a dark brown liquid with citrus odor.
ACPE is stable up to 90°C, pH higher then 3.8 may slightly reduce activity.

Applications

ACPE is an antibacterial and antifungal active ingredient designed to care for bacterial, fungal, mold related skin care issues. When used at minimum recommended values it will render the finished product preservative free.
Used for cosmetic and skin care products such as foot care lotions, antiseptic soaps, antidandruff shampoos, facial lotions, etc.

Proposed applications:
- ACPE Active: 75% ACPE in gel form
  Night use facial care, provides a dry protective film for use on blemished, oily or pimpled skin.
  NO PRESERVATIVES REQUIRED.
- Facial Care Lotion – 10% ACPE in skin shade lotion form.
  Day use active lotion; combined active-protection and masking effect.
- Facial Care Cream – 10-20% ACPE soothing cream.
  Absorbs onto skin, leaving a thin non detectable protective layer.
- Foot Cream – 30-40% ACPE.
  ACPE antimicrobial properties, add invaluable protection to foot cream formulation.

Other potential application:
- Antimicrobial facial soap – 10% ACPE
- Antimicrobial foot soap (coarse) – 16% ACPE
- Antimicrobial shampoo – 3% ACPE

Specifications

- Specific Gravity D^25°/25°: 1.120 – 1.180
- pH at 22°C: 3.0 - 3.8
- Water content: 58 – 65%
- Solubility: Water soluble
- Heavy Metals: Absent

Microbiological analysis

<table>
<thead>
<tr>
<th>Microorganism</th>
<th>Minimum Growth</th>
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<tr>
<td>E-Coli</td>
<td>2.5 % min</td>
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<tr>
<td>Cladosporium sp.</td>
<td>12 % min</td>
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Storage Conditions

Store in full, tightly closed containers, protected from heat and light at room temperature.

**Note:** ACPE has not been tested or approved for pharmaceutical use. Any claims on consumer products containing ACPE must comply with local laws and regulations.

This information is offered as a guide and is believed to be accurate at the date of this version. The values given are subject to change without prior notice. For more information regarding our products and current specifications, please contact us.

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