ACTIVE INGREDIENTS

Hydrolite® 5
616751
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Multi-Functional Cosmetic Ingredient for Skin and Hair Care

BENEFITS
- Excellent skin moisturizer
- Reduces emulsion particle size: helps achieve better stability and improves formulation aesthetics
- Works synergistically with preservatives
- Enhances the bioavailability of cosmetic actives
- Improves water-resistance of sunscreen formulations
- Many hair care benefits
- Excellent safety profile

PRODUCT DESCRIPTION
- Multi-functional cosmetic ingredient
- Colorless liquid with a very low odor
- Common name: 1,2-Pentanediol
- Soluble in water and cosmetic esters
- Globally approved
- Recommended use level: 1 - 5%
- INCI: Pentylene Glycol
MOISTURIZATION STUDY

- 5% Hydrolite® 5 vs. Propylene Glycol formulation
- Panel of 20 subjects
- 3 days conditioning period
- Test products applied for 14 days
- Skin moisture measured with corneometer 12 hours after the last application

![Graph showing relative moisturization comparison between 5% Hydrolite® 5 and 5% Propylene Glycol formulations.]

MINIMUM INHIBITORY CONCENTRATIONS

**Agar dilution method**

- *Escherichia coli* ATCC 8739 3.2%
- *Pseudomonas aeruginosa* ATCC 9027 1.6%
- *Staphylococcus aureus* ATCC 6538 3.2%
- *Candida albicans* ATCC 10231 1.6%
- *Aspergillus niger* ATCC 16404 1.6%

![Table showing minimum inhibitory concentrations of various microorganisms.]
EMULSION PARTICLE SIZE REDUCTION

- Size and size distribution of emulsion droplets influence the stability of an emulsion
- Study to determine whether Hydrolite® 5 changes the particle size of an O/W emulsion
- 4 emulsions – 1, 3, 5% Hydrolite® 5 and placebo
- Particle size measurements by laser diffraction technology

![Graph showing particle size comparison](image)

- Placebo
- 1% Hydrolite® 5
- 3% Hydrolite® 5
- 5% Hydrolite® 5

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