

ACTIVE INGREDIENTS
Hydrolite® 5
616751

symrise 
always inspiring more...



Hydrolite® 5 No. 616751

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



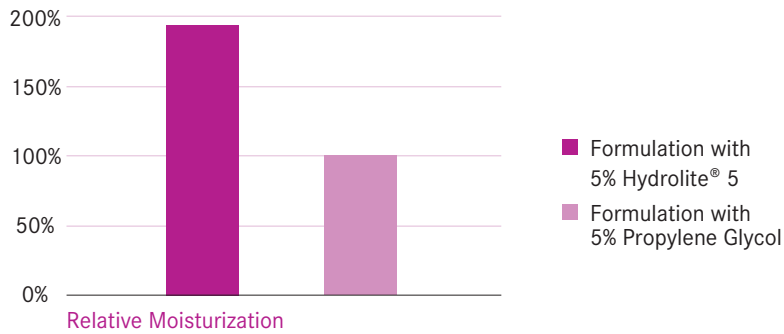
MINIMUM INHIBITORY CONCENTRATIONS

Agar dilution method

<i>Escherichia coli</i>	ATCC 8739	3.2%
<i>Pseudomonas aeruginosa</i>	ATCC 9027	1.6%
<i>Staphylococcus aureus</i>	ATCC 6538	3.2%
<i>Candida albicans</i>	ATCC 10231	1.6%
<i>Aspergillus niger</i>	ATCC 16404	1.6%

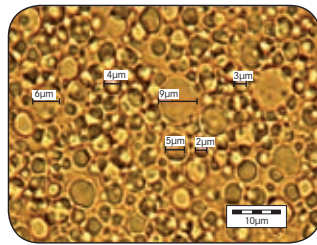
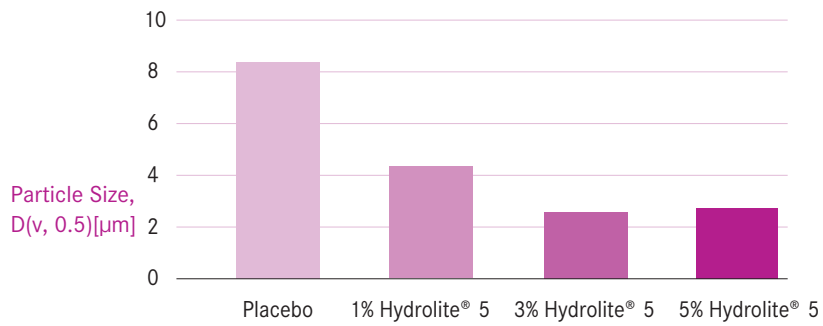
MOISTURIZATION STUDY

- 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

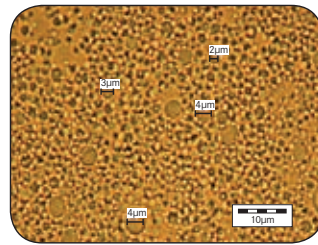


EMULSION PARTICLE SIZE REDUCTION

- 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



Placebo



With 5% Hydrolite® 5

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