

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



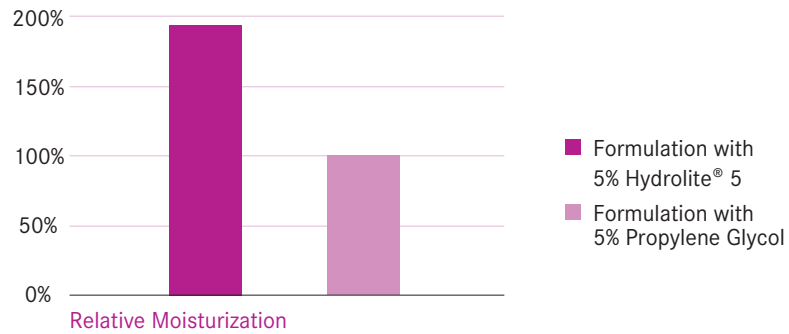
MINIMUM INHIBITORY CONCENTRATIONS

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%

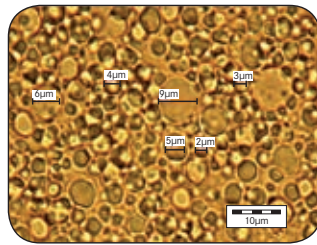
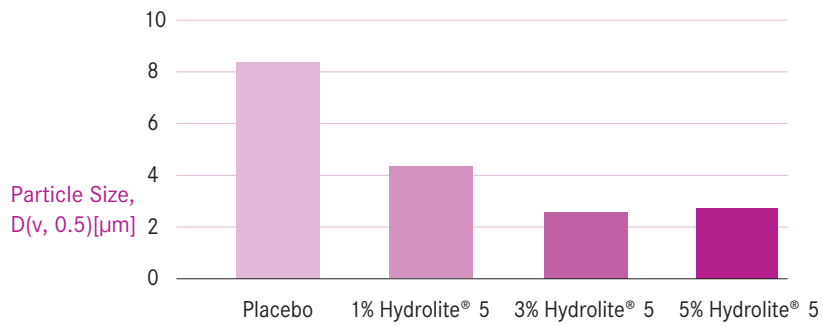
MOISTURIZATION STUDY

- 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

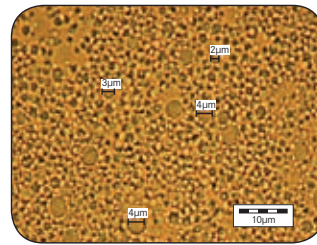


EMULSION PARTICLE SIZE REDUCTION

- 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

DISCLAIMER

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Symrise makes no warranties, either expressed or implied, as to the accuracy or appropriateness of this data. Symrise expressly disclaims any implied warranty of fitness for a particular use.

We recommend that prospective users determine for themselves the suitability of Symrise materials and suggestions for any use prior to their adoption. We also recommend that prospective users, as required, obtain approval from appropriate regulatory authorities. Suggestions for uses of our products or the inclusion of descriptive material from patents and the citation of specific patents in this publication should not be understood as recommending the use of our products in violation of any patent or as a permission or licence to use any patent of Symrise.