

Honeybee Moisture Complex PF

Hydrating Honey Active for Soft Skin & Hair



INCI Name: Betaine (and) Hydroxypropyltrimonium Honey
SAP Code#: 141350

Key Product Attributes

- Excellent Moisturization
- Skin Elasticity
- Promotes Collagen Synthesis
- Stimulates Cellular ATP Production
- Naturally Derived

Background Information

Honeybee Moisture Complex PF is a substantive complex that combines the benefits of quaternized honey with trimethylglycine (Betaine) to boost the moisturization of skin and hair. Both honey and betaine are natural and edible compounds. The quaternization of honey makes it non-sticky and enhances its moisturizing efficacy. Betaine is an osmolyte found in sugarbeet and is well-established including an ability to regular water in cells, stimulate cellular ATP production, promote collagen production and improve the strength of hair.^{1,2} The anionic portion of the betaine molecule is grafted tightly with the quaternized honey and isolates the cationic charge of the betaine to form a substantive complex. Thus, the new molecular entity offers the combined benefits of both the quaternized honey moiety and the betaine moiety. This new product becomes ideal for leave-on and rinse-off compositions that require moisturizing properties. It is also currently offered in a paraben-free version under the trade name, Honeybee Moisture Complex BV, which is protected by Biovert™.

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Typical Properties Honeybee Moisture Complex	
Appearance	Clear, colorless liquid
Odor	Vary faint aromatic odor
Non-Volatile Matter (1gr/1hr/105°C)	55–65%
pH AS IS 25°C	5.0–8.0
Microbial Content	100 opp max, no pathogens
Preservative System	0.9–1.1% - Phenoxyethanol 0.4 –0.6% - Potassium Sorbate
Recommended Use Level	1.0–5.0%

Typical Properties Honeybee Moisture Complex BV	
SAP Code #	138900
Appearance	Clear, colorless liquid
Odor	Characteristic
Non-Volatile Matter (1gr/1hr/105°C)	55–65%
pH AS IS 25°C	5.0–7.0
Microbial Content	≤ 100 opp, no pathogens
	0.45–0.55% Glucose 0.006–0.007% Sodium Chloride 0.00038–0.00048% Lactoperoxidase 0.00032–0.00042% Glucose oxidase
Preservative System	
Recommended Use Level	1.0–5.0%

References

1. Irich Warskulat, et. al. "The Osmolyte Strategy of Normal Human Keratinocytes in Maintaining Cell Homeostasis", J Invest Dermatol, 2004, 123,516-521
2. 2.Viennet C, et.al. "Glycine betaine stimulates human skin fibroblasts growth and collagen production in culture", J Invest Dermatol, 2002, 118, 1099

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