

Technical Data Sheet for Phytocare-HA CG 1M

Product Description

PhytocareTM is a COSMOS-approved biological active extracted from Snow Mushrooms. It has played a prominent role in Chinese history as a celebrated ingredient in herbal, cosmetic, and culinary applications. It features powerful hydration, film forming and anti-oxidation properties, making it very suitable for anti-aging, antipollution, and urban defense formulations.

Legislation

- INCI Tremella Fuciformis Sporocarp Extract
- CAS # 778577-37-0
- REACH# 05-2116472879-22-0000

General Product Specification

<u>ltem</u>		Specification	<u>Methods</u>
Appearance		White or light yellow	Visual
Odor		Characteristic Smell	Organoleptic
Identify Test	Total	Orange yellow	Phenol sulfuric acid method
	Gluccuronic	Amaranth (or peachblow)	Sulfuric Acid Carbazole Method
Particle size		> 80 mesh	2010 version of CHP 1 st Volume Appendix
рН		5.5 -7.5	0.5% aqueous solution, Glass electrode
% loss on drying		< 10%	1g, 4 hrs, 105C
% Ignition residue		< 10%	2010 Version of CHP 1 st volume, Appendix
% Transparency		≥ 90%	0.5% solution, centrifugal
Viscosity (Pa.s)		1.0 -1.8 Pa.S	0.5% aqueous solution at 25C
Molecular weight		> 1,000,000	Ubbelohde Viscometer method
% Nitrogen		< 0.5%	Kjedahl Determination
Quantitativ	Total	≥80%	Phenol Sulfuric acid

e method	Glucuronic	10 - 30%	Sulfuric acid Carbazole method
Heavy metal, ppm		≤ 20 ppm	20120 Version CHP 1 st volume Appendix IXE (2 nd method)
Arsenic, ppm		≤ 2 ppm	2010 version of CHP 1 st Volume, Appendix IXF (Arsenic Stain Method)
Total bacteria count (cfu/g)		< 200	Test Standard of for Import-Export Food of People's Republic of China. SN 0168
Total yeast & Mold (cfu/g)		< 100	GB4789.15-2010
Escherichia Coli		Negative	Test Standard of for Import-Export Food of the People's Republic of China. SN 0169

Safety data:

- Repeated Insult Patch Test (RIPT) with 50 human subjects shows no skin irritation and no skin sensitization.
- Total heavy metal < 20 ppm, and Arsenic < 2 ppm
- Microbiology data: Total aerobic bacteria count and the total yeast/mold count < 100 cfu/g, free of Pathogens: E.Coli, P. Aeruginosa, and S. Aureus.

Features/Benefits

- Highly effective hydration functionality
 - Pre-hydration and skin conductance studies shows 2.6 times improved water retention in stratum corneum over 4 week treatment period
- Strong anti-pollution barrier and film former
 - Branched chain polysaccharide verses standard linear chain hyaluronic acid, resulting in more flexible barrier with improved sensory and breakage strength
 - 4 week skin desorption study shows a significant decrease in water evaporation from stratum corneum, keep skin healthy and strong against environmental pollutants

- Increases body's natural antioxidant defense
 - Boosts the production of super oxide dismutase, which the body produces to combat free radical exposure
- Meets ECOCERT, COSMOS natural and organic standards, Halal certified

Applications

Cosmetic and Toiletry:

- Anti-pollution and urban defense formulations
- Skincare formulas with strong hydration claims
- Multifunctional color cosmetics with skin hydration benefits
- Specialized serums with high concentrations of active complexes

How to use it?

- Soluble in water, add while mixing vigorously
- Fastest way to incorporate is to pre-mix into glycerin and then add slurry to water at 50 to 60 Celsius

Packaging

0.5 kilogram plastic jars

<u>Storage</u>

• Store the product in its original package and avoid storing at extreme high and low temperature.

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