

2 Cranberry Road, Unit A4, Parsippany, NJ 07054,USA Tel: 862-210-8344 Fax: 862-210-8336 Sales@applechem.com

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>Item</u>		<u>Specification</u>	<u>Methods</u>
Appearance		White or light yellow	Visual
Odor		Characteristic Smell	Organoleptic
Identify Test	Total Saccharide	Orange yellow	Phenol sulfuric acid method
	Gluccuronic Acid	Amaranth (or peachblow)	Sulfuric Acid Carbazole Method
Particle size		> 80 mesh	2010 version of CHP 1 st Volume Appendix XIB
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 IXJ
% 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
Quantitative	Total saccharide	≥80%	Phenol Sulfuric acid

----- Create Possibilities -----

Last product specification update: 1/25/2016 Last document update: 11/7/2017

method	Glucuronic acid	10 – 30%	Sulfuric acid Carbazole method
Heavy metal, ppm		≤ 20 ppm	20120 Version CHP 1 st volume Appendix IXE (2 nd method)
			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

Storage

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

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