

AquaMAX™ LM POLYGLUTAMIC ACID, POTASSIUM SALT

Document No.: 676-IX

Effective Date: 23 Mar 2012

Description	AquaMAX LM is a hydrolyzed polyglutamic acid potassium salt that has been developed specifically for cosmetic and skin care applications.
Features	<ul style="list-style-type: none"> • soluble upon gentle mixing • low plate count • compatible with many personal care ingredients, including AquaMax HM
Benefits	<ul style="list-style-type: none"> • inhibits hyaluronidase • increases the hyaluronic acid content in human skin culture • increases the level of natural moisturizing factors (NMFs) in human skin culture • enhances skin's own ability to maintain moisture • calm's sensitive skin • skin care • cosmetics • personal care
Typical Use Level	AquaMAX LM is typically used at a level of 0.05 to 1%
Standard Packaging	Packed in sealed 0.5-kg foil bags.
Ingredient/Labeling	<p>AquaMAX LM Polyglutamic acid, potassium salt CAS # 83950-69-0 For use as a functional ingredient in cosmetics</p>
Regulatory Information	<p>INCI Name: Potassium Hydrolyzed Polygamma-Glutamate For use in cosmetics in China, Japan, Thailand, Indonesia, US, Brazil, Mexico, EU, Switzerland, Canada*, Chile, Argentina, Venezuela, Colombia, Australia, New Zealand.</p> <p>*Please contact CP Kelco Sales for information.</p> <p>For other countries contact your sales representative.</p>
Storage Conditions/ Shelf Life	Store in a roofed and well-ventilated area in the unopened original package. Functional properties of the product are guaranteed to conform with the stated sales specifications for 1460 days from the date of manufacture when stored under these conditions.
Quality System	Manufactured according to a Quality System registered to ISO 9001:2008

Specifications

<u>Property</u>	<u>Requirement</u>	<u>Test Method</u>
Appearance	White to slightly yellow powder	
Odor	Pass	KTM171
Solution pH		KTM005
- 1% in DI water	5.3 – 7.3	
Molecular Weight	800 – 1500 Daltons	
Assay	Not less than 90% PGA-K	
Heavy Metals	Less than 20.0 mg/kg (ppm)	KTM513
Arsenic	Less than 2.0 mg/kg (ppm)	KTM514
Bacteria *	Less than 100 cfu/g	KTM800

* Total viable mesophilic aerobic count, 48 hr incubation

METHODS OF TESTING (Full details of test methods are available upon request)

Appearance and Odor

Qualitative evaluation.

Solution pH (KTM005)

Slowly add 3 g product to 297 mL deionized water in a 400-mL beaker while stirring at 800 rpm using a low-pitched, propeller-type stirrer. After stirring for 30 min, measure the pH of this solution using a pH meter.

Heavy Metals, Arsenic (KTM513, KTM514)

Follow the procedures given in the current edition of *Food Chemicals Codex*.

Bacteria (KTM800)

Follow the procedures as given for microbial limit tests in the current edition of the *United States Pharmacopoeia*.

NOTE: CP Kelco reserves the right to use company test methodology.

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