



Technologies

# Certificate of Analysis

**PRODUCT NAME:** Natural Eggshell Membrane - NEM®  
**PRODUCTION DATE:** MM/DD/YYYY  
**COUNTRY OF ORIGIN:** USA

**LOT NUMBER:** 80XXXXX  
**RETEST DATE:** MM/DD/YYYY

	SPECIFICATION		RESULTS	TEST METHOD
<b>PHYSICAL SPECIFICATIONS</b>				
APPEARANCE	OFF-WHITE POWDER		PASS	ESM-TM-PH001
<b>PARTICLE SIZE</b>				
RETAINED ON #60 MESH	MAX	5%	2%	ESM-TM-PH002
<b>BULK DENSITY</b>				
TAPPED	MIN	0.7 g/cc	1.0 g/cc	ESM-TM-PH003
LOOSE	MIN	0.6 g/cc	0.7 g/cc	ESM-TM-PH003
<b>CHEMICAL SPECIFICATIONS</b>				
IDENTITY (FT-IR)	Conforms		Conforms	ESM-TM-IR801
HYALURONIC ACID	MIN	0.5%	0.8%	QCU-SOP011T
CHONDROITIN SULFATE	MIN	0.2%	0.4%	HPLC
COLLAGEN	MIN	10%	16%	Gravimetric
TOTAL PROTEIN	Report Results		48%	AOAC 984.13
MOISTURE	MAX	10%	5%	ESM-TM-CH005
CALCIUM	Report Results		16%	ESM-TM-CH001 (USP 30)
LEAD	MAX	0.10 ppm	<0.01 ppm	AOAC 993.14 (ICP-MS)
ARSENIC	MAX	0.25 ppm	<0.2 ppm	AOAC 993.14 (ICP-MS)
MERCURY	MAX	0.10 ppm	<0.01 ppm	AOAC 993.14 (ICP-MS)
CADMIUM	MAX	0.10 ppm	<0.01 ppm	AOAC 993.14 (ICP-MS)
<b>MICROBIAL SPECIFICATIONS</b>				
YEASTS AND MOLD	MAX	100 cfu/g	<100 cfu/g	USP 30 <61>
TOTAL PLATE COUNT	MAX	5,000 cfu/g	<1,000 cfu/g	USP 30 <61>
E. COLI	MAX	NEG /10g	NEG /10g	USP 30 <61>
SALMONELLA	MAX	NEG /10g	NEG /10g	USP 30 <61>
STAPHYLOCOCCUS AUREUS	MAX	NEG /10g	NEG /10g	USP 30 <61>
COLIFORM	MAX	10 cfu/g	<10 cfu/g	AOAC 991.14

### SAMPLING & STORAGE

BULK STORAGE CONDITIONS 65-85°F  
BULK PACKAGING 15 KG POLY-LINED BOXES

The above-named product complies with all test specifications listed herein.

QUALITY UNIT / DATE

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