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Specification Sheet

SODIUM HYALURONATE 1% SOLUTION (Macronan-S)

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
SHYKKS	2330	9067-32-7	April 26, 2012	AR	No. 5	MR

CHARACTERISTICS:	Clear aqueous solution produced by bacterial fermentation of Streptococcus zooepidemicus, non-hemolytic bacterial strain. It is a biopolymer that consists of N-acetyl-D-glucosamine and glucuronic acid.
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SPECIFICATIONS:	Transparency (0.5% solution, 660nm, 1cm)	0.01% max
	Sodium hyaluronate (dry basis w/w)	1% min
	Protein (dry basis w/w)	30 ppm max
	pH (0.5% solution)	5.0-8.0
	Molecular weight	1.2 Mda min
	Intrinsic viscosity	20 dL/g min
	Viscosity, Brookfield DVII+, SP 4; 12 RPM; 1% solution @ 25° C	10,000 cps min
	Heavy metals (dry basis)	20 ppm max
	Arsenic (dry basis)	2 ppm max
	Hemolysis	None
	Microbials	
	Total microbial count (by TSA)	100 cfu/g max
	Yeast and mold (by SDA)	100 cfu/g max
	Pathogens	Absent
Preservative (Phenonip)	0.30%	

STOCKING POINTS:	Carson, CA
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PACKAGING:	20 kg PE lined open head drum
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APPLICATIONS:	Sodium hyaluronate is a mucopolysaccharide found naturally in the human body, including the skin. It is found in synovial fluid lubricating human joints where it acts as a lubricant and shock absorber, and is a primary component of cartilage. It is used as active ingredient for skin care in facial creams & lotions, eye contour creams and gels, liposome gels, & body lotions for its moisturizing & lubricating properties, as well as viscoelasticity. Claims have been made for skin healing & regenerative properties of the human skin.
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SHELF LIFE AND STORAGE INSTRUCTIONS:	Storage: Store at 15 to 25°C out of light source. Shelf life: 3 years from date of manufacture. DO NOT FREEZE.
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