

### Certificate Of Analysis

Product Name:Sodium Hyaluronate

CAS No. 9067-32-7

Packing: 10kg/drum

Batch No.:20140109

Quantity:300kg

Mfg Date:2014.01.09

Inspection Date: 2014.01.10

Expiry Date: 2016.01.08

Country Of Origin: China

Items	Limits	Test results
Description	white or similar white powder	Conforms
Molecular weight	$\geq 8.0 \times 10^5$	$13.8 \times 10^5$
Assay of Sodium Hyaluronate %	$\geq 90$	95.5
Glycuronic acid %	$\geq 44$	46.2
Loss on drying%	$\leq 10$	8.9
PH (0.1% Solution )	6.0-7.5	6.5
Heavy Metal	$\leq 15$ ppm	<15ppm
Lead (Pb)	$\leq 5$ ppm	<5ppm
Arsenic (As)	$\leq 3$ ppm	<3ppm
Cadmium (Cd)	$\leq 1$ ppm	<1ppm
Mercury (Hg)	$\leq 1$ ppm	<1ppm
Proteins %	$\leq 0.1$	0.07
Transparency%( 0.1% Solution )	$\geq 98.5$	99.8
Total Plate Count	$\leq 1000$ cfu/g	100cfu/g
Yeast and Mold	$\leq 100$ cfu/g	<100cfu/g
Salmonella	Negative in 10g	Conforms
E.Coli	Negative in 10g	Conforms
Staphylococcus Aureus	Negative in 10g	Conforms
Conclusion: Passed test according to the Standard of USP.		