



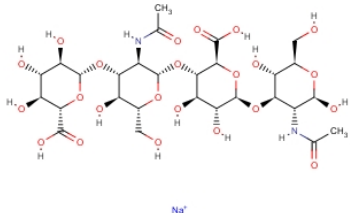
HANGZHOU DINGYAN CHEM CO.,LTD

TEL: 86-571-87157530,86465881,88025800, FAX:86-571-87156470

E-Mail:sales@dingyanchem.com,Web: www.dingyanchem.com

CERTIFICATE OF ANALYSIS

NO: DYC091904281

Product Name	Sodium Hyaluronate (Cosmetic grade)
CAS Number	9067-32-7
Molecule Structure	
Molecule Formula	$C_{28}H_{44}N_2O_{23} \cdot Na$
Batch No.	190411101
Manuf.&Exp. Date	2019-04-11, 2021-04-10
Testing Date	2019-04-11

Test Items	Standard	Result
Appearance	White powder	White powder
Assay	$\geq 93\%$	97.4%
Transparency(in 0.1%aq sol.)	$\geq 99\%$	99.6%
Glucuronic acid	$\geq 45\%$	47.1%
Kinematic viscosity	Actual value	39.6mm ² /s
Intrinsic viscosity	Actual value	19.61DL/g
Molecular weight	$(0.8-1.5) \times 10^6$	1.18×10^6
PH	6.0-7.5	6.4
Loss on drying	<10%	9.6%
Protein	$\leq 0.1\%$	$\leq 0.06\%$
Heavy metal	<20ppm	Complies

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Arsenic	<2ppm	Complies
Residue on ignition	15-20%	19.6%
Bacterial counts	<100cfu/g	Complies
Mold and Yeast	<100cfu/g	Complies
E. Coli	Negative	Complies
Staph	Negative	Complies
Salmonella	Negative	Complies
Pseudomonas aeruginosa	Negative	Complies
Shelf Life	Two Years	
Conclusion	The results meet the standard	

QUALITY CONTROL:
Hangzhou Dingyan Chem Co., Ltd.
Quality Control Ivy
Signature(s)

CHECK:姚仙娟

INSPECTOR: 刘清风

Add: Xiasha 571,19TH Street E-COMMERCE 4A601-602,Jiangan Area, Hangzhou, China