

CERTIFICATE OF ANALYSIS 17-E121915

Product Name: Low Molecular Weight Sodium Hyaluronate Standard: SF/JS ZL-001-19
(HA-TLM)

Batch No.: 1712122

Production Date: Dec.12, 2017

Quantity: 101.298 kg

Expiry Date: Dec.12, 2020

Item	Standard	Result
1. Characters	White or almost white powder or granules	Complied
2. Identification		
A. Infrared absorption	Consistent with the <i>reference spectrum</i> <i>of sodium hyaluronate</i>	Complied
B. Reaction of sodium	Positive	Complied
3. pH	6.0~7.5	6.1
4. Transparency	≥99.0%	99.9%
5. Loss on drying	≤10.0%	6.3%
6. Limiting viscosity	<17.3dl/g	16.3dl/g
7. Molecular weight	<1.00M Da	0.93M Da
8. Protein	≤0.05%	0.025%
9. Heavy metals	≤20ppm	<20ppm
10. Glucuronic acid	≥45.0%	47.3%
11. Sodium hyaluronate	≥93.0%	97.9%
12. Bacteria counts	<10cfu/g	Complied
13. Mold & Yeast	<10cfu/g	Complied
14. <i>Staphylococcus aureus</i>	Negative	Negative
15.		Negative

Conclusion: up to the standard

Reported by:  李振 2017.12.19