



Stanford Chemicals Company

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Certificate of Analysis

| | | | |
|-----------------------|--------------------|----------------------------|--------------|
| Product Name: | Sodium Hyaluronate | Origin: | Fermentation |
| Batch No.: | 14061701 | Manufacturing Date: | 6/17/2014 |
| Analysis Date: | 6/19/2014 | Retest Date: | 6/19/2016 |
| Item No.: | HAF-L | Grade: | Food Grade |

| <u>Items</u> | <u>Specifications</u> | <u>Results</u> |
|------------------------------|-----------------------|----------------|
| Appearance | White powder | White powder |
| Sodium Hyaluronate | ≥90% | 93 % |
| Glucuronic acid | ≥42.0% | 43.25% |
| Molecular weight | 10K Da- 1,000K Da | 150 K Da |
| pH (0.1% solution) | 6.0-8.0 | 6.85 |
| Transparency (0.1% solution) | 99% | 99.8% |
| Protein | ≤0.1% | 0.08% |
| Heavy metal | ≤20ppm | Complies |
| Arsenic | ≤2ppm | Complies |
| Loss on drying | ≤10.0% | 4.96% |
| Bacterial counts | ≤100cfu/g | Complies |
| Mold and Yeast | ≤100cfu/g | Complies |
| Staphylococcus aureus | Negative | Complies |
| Pseudomonas aeruginosa | Negative | Complies |

Conclusion

Qualified

Stored: Store in a dry and cool place.

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By