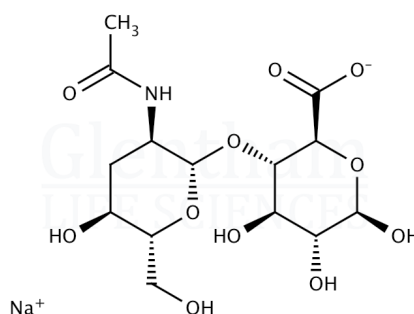


Product Specification

| | |
|-------------------|---|
| Product Name | Hyaluronic acid sodium salt, m.w. 1.0MDa, Ph. Eur. grade, low endotoxin |
| Glentham Code | GE4047 |
| CAS Number | 9067-32-7 |
| Molecular Weight | 1,000,000 |
| Molecular Formula | $(C_{14}H_{20}NNaO_{11})_n$ |
| Storage Temp. | -20°C |



| Property | Specification |
|--------------------------------|---|
| Physical Description | White to almost white powder, hygroscopic |
| Identification | A, B according to Ph. Eur. |
| Appearance of Solution | A600nm: ≤ 0.01 |
| pH (5% in water) | 5.0 - 8.5 |
| Intrinsic Viscosity | To pass Ph. Eur. test |
| Nucleic Acids | A260nm: ≤ 0.5 |
| Protein | ≤ 0.05% |
| Chlorides | ≤ 0.5% |
| Iron (Fe) | ≤ 80ppm |
| Heavy Metals | ≤ 10ppm |
| Arsenic (As) | ≤ 2ppm |
| Residue on Ignition | ≤ 20.0% |
| Bacteria Count | ≤ 100CFU/g |
| Yeast and Mould | ≤ 10CFU/g |
| Staphylococcus aureus | Negative |
| Pseudomonas aeruginosa | Negative |
| Hemolysis | Negative |
| Hemolytical Streptococci | Negative |
| Endotoxins | ≤ 0.01EU/mg |
| Loss on Drying | ≤ 10.0% |
| Glucuronic acid | ≥ 46.0% |
| Average Molecular Weight | 1.0 - 1.5 MDa |
| Assay | 95.0 - 105.0 % (dried basis) |
| Pharmacopoeia Specification(s) | Ph. Eur. |

| | |
|-----------------------|--------------|
| Specification Version | - v1.0 |
| Date Created | - 2018-10-16 |

Product Specification

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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