



CERTIFICATE OF ANALYSIS (COA)

Hyaluronic Acid (Sodium Salt, High MW)

Doc No: VEL-COA-HYALURON-VEL-202602-052 | Rev: 1.0 | 22 Feb 2026

For Research Use Only · Not for Human Consumption

| PRODUCT IDENTIFICATION | |
|------------------------|--|
| Product Name | Hyaluronic Acid (Sodium Salt, High MW) |
| Catalog / SKU | VEL-HYALUR |
| CAS Number | 9004-61-9 |
| Formula | Polysaccharide (N-acetyl-D-glucosamine + D-glucuronic acid) |
| Mol. Weight | ~1,000,000–2,000,000 Da |

| LOT / BATCH INFORMATION | |
|-------------------------|--|
| Lot Number | VEL-202602-052 |
| Manufacture Date | 22 Feb 2026 |
| Expiry Date | 22 Feb 2028 |
| Storage | 2–8°C, protected from moisture |
| Sequence / Type | N-acetyl-D-glucosamine + D-glucuronic acid polymer |

| QUALITY CONTROL TEST RESULTS | | | | |
|------------------------------|--------------------------------|----------------------|----------------------|--------|
| TEST PARAMETER | SPECIFICATION | RESULT | METHOD | STATUS |
| Appearance | White fibrous powder | Conforms | Visual | ✓ PASS |
| Identity (MS) | MW confirmed ± 0.5 Da | Confirmed | LC-MS | ✓ PASS |
| Purity (HPLC) | $\geq 98\%$ (GPC) | 98.5% | RP-HPLC, UV 214 | ✓ PASS |
| Water Content (KF) | $\leq 10.0\%$ w/w | 7.1% | Karl Fischer | ✓ PASS |
| Residual Solvents | ICH Q3C Class 2 | Conforms | GC-FID | ✓ PASS |
| Bacterial Endotoxins | <10 EU/mg | <5 EU/mg | LAL (gel-clot) | ✓ PASS |
| Sterility (14-day) | No growth | No growth | USP <71> | ✓ PASS |
| pH (1% aqueous) | 4.0–9.0 | 6.9 | Potentiometric | ✓ PASS |
| Solubility | Forms viscous aqueous solution | Complete dissolution | Visual/turbidimetric | ✓ PASS |

| OVERALL LOT DISPOSITION | |
|------------------------------------|--|
| ✓ RELEASED FOR DISTRIBUTION | All specifications have been met for Lot VEL-202602-052 . This lot is hereby released for research distribution. |
| | Authorized by: Quality Control Manager, Vial & Error Labs Authorization Date: 22 Feb 2026 Expiry: 22 Feb 2028 |

| PHYSICAL & CHEMICAL DESCRIPTION | |
|---------------------------------|--|
| Appearance | White fibrous powder |
| Solubility | Forms viscous aqueous solution |
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| Sequence / Notes | N-acetyl-D-glucosamine + D-glucuronic acid polymer |



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| | |
|-----------------------|--|
| Reconstitution | Add sterile water for injection (WFI) or appropriate buffer dropwise to achieve desired concentration. Gently swirl until dissolved. Do not vortex. Filter through 0.22 µm membrane filter if sterility is required. |
| Handling Notes | Allow vial to equilibrate to room temperature before opening to minimize condensation. Aliquot into single-use volumes before freezing to avoid repeated freeze-thaw cycles. |

RESEARCH USE ONLY — IMPORTANT DISCLAIMER: This product is supplied for in vitro and ex vivo laboratory research purposes only. It has not been evaluated by the FDA or any other regulatory authority for safety, efficacy, or quality. It is not approved or intended for human therapeutic, diagnostic, veterinary, or food use. This COA is specific to the lot number stated above and should be retained with your records. Vial & Error Labs assumes no liability for misuse or use outside the intended research context. The purchaser assumes full responsibility for compliance with all applicable laws and regulations.