Certificate of Analysis

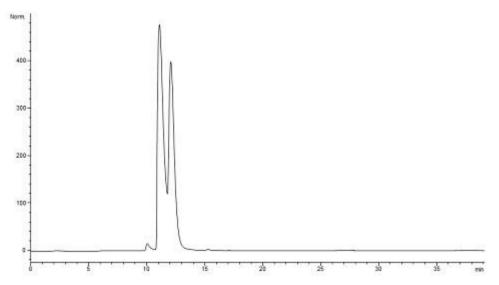


Heparin Disaccharide HD010

| Catalogue no: | HD010 |
|--------------------|--|
| Batch no: | BN2 |
| Molecular weight: | 462 |
| Molecular Formula: | $C_{12}H_{18}NO_{13}SNa_2$ |
| Structure: | ΔUA,2S – GIcN |
| | OH OH OH SO3 ⁻ CH ₂ OH OH OH NH ₃ ⁺ |
| Quantity: | 1mg per vial |
| Appearance: | White/yellow powder |
| Origin: | High quality porcine mucosal heparin |

| Specification | Result |
|--|--------------------|
| Purity >95% by HPLC | 99.1% |
| Degree of polymerisation by gel filtration | 2-mer/disaccharide |

SAX 0 – 1M NaCl over 45minutes detected at 232nm Bimodal profile – separation of α and β anomers



Please note; elution times may vary slightly according to HPLC conditions.