**S3 Table.** **Structures of heparin/heparan sulfate and heparinase digests investigated by glycan array analysis**

|  |  |
| --- | --- |
| **Glycan**  | **Glycan Structure** |
|
| **Heparan Sulfate**  |   |
| **Heparin** |  |
| **Heparin disaccharide I-S sodium salt****α-ΔUA-2S-[1→4]-GlcNS-6S** |  |
| **Heparin disaccharide II-S sodium salt****α-ΔUA-[1→4]-GlcNS-6S** |  |
| **Heparin disaccharide III-S sodium salt****α-ΔUA-2S-[1→4]-GlcNS** |  |
| **Heparin disaccharide I-A sodium salt****α-ΔUA-2S-[1→4]-GlcNAc-6S** |  |
| **Heparin disaccharide II-A sodium salt****α-ΔUA-[1→4]- GlcNAc-6S** |  |
| **Heparin disaccharide III-A sodium salt****α-ΔUA-2S-[1→4]- GlcNAc** |  |
| **Heparin disaccharide IV-A sodium salt****α-ΔUA-[1→4]-GlcNAc** |  |

Abbreviations: ΔUA: 4,5 unsaturated uronic acid residue, GlcNAc: *N*-acetyl glucosamine, GlcNS: glucosamine-*N*-sulfate, 2S : 2-*O*-sulfate, 6S: 6-*O*-sulfate, Na: sodium