

Supporting Information

# A Comprehensive Compositional Analysis of Heparin/Heparan Sulfate-Derived Disaccharides from Human Serum

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**Table S-1.** Method validation using serum spiked with heparin sulfate from bovine kidney.

	m/z	Ref. <sup>S1</sup> (%)	Expt'l (%)	Diff. (%)
IV-A	378.1 <sup>1-</sup>	50.1	48.9 ± 1.5	-1.2
III-A	458.1 <sup>1-</sup>	0.0	0.3 ± 0.1	0.3
II-A	458.1 <sup>1-</sup>	14.1	14.6 ± 2.0	0.5
I-A	268.7 <sup>2-</sup>	0.7	0.4 ± 0.1	-0.3
IV-S	416.1 <sup>1-</sup>	16.6	13.0 ± 0.6	-3.6
III-S	247.7 <sup>2-</sup>	2.9	5.9 ± 0.5	3.0
II-S	247.7 <sup>2-</sup>	5.1	5.9 ± 1.7	0.8
I-S	191.5 <sup>3-</sup>	6.4	7.2 ± 2.9	0.8
I-H	247.7 <sup>2-</sup>	0.0	1.6 ± 1.1	1.6
II-H	416.1 <sup>1-</sup>	2.2	1.6 ± 0.2	-0.6
III-H	416.1 <sup>1-</sup>	0.0	0.4 ± 0.7	0.4
IV-H	336.3 <sup>1-</sup>	1.3	0.2 ± 0.1	-1.1

**Reference:**

(S1) Saad, O. M.; Ebel, H.; Uchimura, K.; Rosen, S. D.; Bertozzi, C. R.; Leary, J. A. *Glycobiology* **2005**, *15*, 818-826.