

258 [M-H]-1 = GlcN + 1SO3

338 [M-H]-1 = GlcN + 2SO3

NS heparin

De-2OS heparin

PMHS

254 [M-H]-1 = ΔUA + 1SO3

320 [M-H]-1 = ΔGlcN + 2SO3

241 [M-H]-1 = ΔGlcN + 1SO3

418 [M-H]-1 = GlcN + 3SO3

258 [M-H]-1 = GlcN + 1SO3

258 [M-H]-1 = GlcN + 1SO3

Heparin

418 [M-H]-1 = GlcN + 3SO3

338 [M-H]-1 = GlcN + 2SO3

**Figure 7.1. Identification of monosaccharides from the latest eluting SEC fractions of digested heparin / HS material.** Heparin showed higher sulfated monosaccharides, de-20S-sulfated heparin showed a sulfation loss and NS heparin continues the trend by containing ions with only 1 sulfate 254 [M-H]-1 and 258 [M-H]-1, as expected. PMHS showed the lower sulfated monosaccharides. The negative ion mass spectrum of the sample was recorded using spray voltage at 2200 V, sample voltage 20, extraction cone voltage at 1 V and collision energy at 3 V.