Supplementary Information

- Figure S1. Variation of Log_{10} (relative ion intensities) hydrogen-deuterium exchange of sodiated trialanine as a function of reaction times with ND₃ at a pressure of 2.8 x 10^{-8} mbar.
- Figure S2. Variation of relative ion intensities for the first hydrogen-deuterium exchange of sodiated diglycine and sodiated dialanine as a function of reaction times with ND₃ at a pressure of 2.8×10^{-8} mbar.
- **Figure S3.** Variation of relative ion intensities for sodiated trialanine as a function of reaction times with ND₃ at a pressure of 4.1×10^{-8} mbar.
- **Figure S4.** Variation of relative ion intensities for sodiated tetraglycine as a function of reaction times with ND₃ at a pressure of 1.6×10^{-8} mbar.
- **Figure S5.** Variation of relative ion intensities for sodiated pentaglycine as a function of reaction times with ND₃ at a pressure of 1.1×10^{-8} mbar.
- Figure S6. Variation of relative ion intensities for sodiated octaglycine as a function of reaction times with ND_3 at a pressure of 2.0 x 10⁻⁸ mbar.



Figure S1



Figure S2



Figure S3



Figure S4



Figure S5



Figure S6