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**Quantitative hydrophilic interaction chromatography–mass spectrometry analysis of N-acetylneuraminic acid and N-acetylmannosamine in human plasma**

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**Highlights**

- HILIC LC-MS/MS methods for ManNAc and Neu5Ac in human plasma are described.
- A fit-for-purpose approach was adopted during method validation and sample analysis.
- A surrogate matrix, 5% BSA, was utilized for the preparation of calibration standards.
- Extraction with a phospholipid removal plate eliminated matrix effect.

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