
THE USE OF MASS SPECTROMETRY TO DETERMINE PROTEIN LIGAND INTERACTIONS

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Since the advent of electrospray ionisation, mass spectrometry has become a central tool with which to analyse biological macromolecules. We will present data here on the use of different mass spectrometry methods to determine protein ligand interactions. We have explored the use of PLIMSTEX¹ and SUPREX² methodologies applied to a range of small soluble proteins. Data from these on-line methods will be compared with that provided by direct infusion experiments. In addition we will contrast findings from these solution based assays with that obtained via gas-phase measurements, and in particular from ion mobility mass spectrometry³. Using salient examples we will review the advantages and disadvantages of all methods.

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