

## DRAWBACKS OF IMMUNOASSAY

SELECTIVITY

Sample extraction and separation are not involved in Immunoassays Which may lead to false results with serious outcomes

REPRODUCIBILITY

Multi-step process, without automation and centred around an Unstable, dynamic and relatively complex biological molecule

ANALYTE  
DETECTION

Antibodies can be generated to protein-based antigens and biomolecules, but is very difficult and in some cases impossible

## STRENGTHS OF LC-MS



SELECTIVITY

High resolution separation, coupled with mass spectrometry allow for identification and quantification of biomolecules and even to distinguish between very structurally similar biomolecules

REPRODUCIBILITY

Intra and Inter assay reproducibility is high and Retention time precision is extremely high with standard deviations typically less than 0.1%

ANALYTE DETECTION

Able to detect to the attomole level. High degree of multiplexed analysis of analytes is possible