

Bioanalysis

Bioanalysis is the quantitative measurement of compounds in biological matrices. At Charnwood Discovery, non-GLP bioanalysis is conducted on a range of sample sources such as cell based assays, pharmacokinetic (PK) and pharmacodynamic (PD) studies, dose range-finding and maximum tolerated dose (MTD) studies.

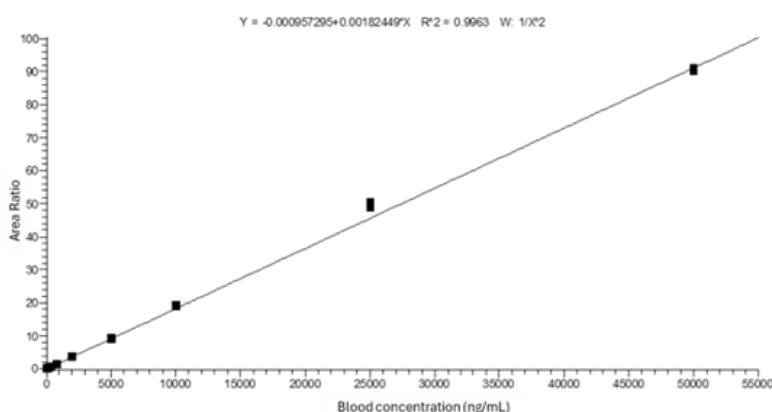
All data is checked independently by an experienced scientist to ensure acceptance criteria and data quality standards are met.

Sample Preparation and Quantitative Bioanalysis

- Experience processing plasma, serum, blood, urine, bile, tissues and tumours, as well as *in vitro* samples
- Tissues homogenised using the Precellys® Evolution Homogeniser with Cryolys® Evolution cooling unit to protect heat sensitive samples
- Separate standard and QC weighed to 0.01 mg
- Matrix-matched calibration curves
- Protein precipitation of samples/homogenised tissues
- Quantitative analysis by LC-MS



Left–Precellys® Evolution Homogeniser with Cryolys® Evolution cooling unit. Right–Plasma quenched with solvent



Example calibration curve

Compound Requirements

Bioanalysis: 2 x 1 mg (weighed to 0.01 mg) or >6 mg solid.

Deliverables

Excel summary of sample concentrations (ng/mL or ng/g), and LC-MS method.



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All our assays can be customised to answer specific project questions

Contact us for more information on standard or customised assay formats