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# Non-Regulatory Bioanalysis

*Cyprotex has a wide breadth and depth of experience in discovery bioanalysis for small molecules and bio-therapeutics including: peptides, oligonucleotides and PROTACs. The scientific experience, capacity and application of the state-of-the-art bioanalytical equipment provide fast turnarounds that will help to arrive at “go/no-go” decisions faster. Our bioanalysis service is part of both standalone services as well as in vivo PK study packages.*

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- ▶ **In vitro & in vivo bioanalytical support**
- ▶ **Non-regulatory formulation analysis**
- ▶ **Support for multiple matrices**
- ▶ **Bespoke and premium data delivery available**





## Non-Regulatory Bioanalysis

- ▶ **We can offer non-GLP bioanalytical services** with the option to qualify methods to support fit-for-purpose analyses.
- ▶ **Reliable and robust bioanalytical methods are critical for quantitative analysis.** Developing a bioanalytical method requires an understanding of structural and physicochemical properties of the test compound as well as the matrix environment in which it is being measured. This understanding helps to inform the optimisation of the method and identify the most favourable detection, chromatographic separation and sample preparation techniques.
- ▶ **Our advanced bioanalytical method development and qualification service** is used to demonstrate that a particular bioanalytical method used for quantitative measurement of analytes in a given biological matrix is reliable and reproducible for the intended analytical application. The fundamental parameters assessed include accuracy and precision, linearity and sensitivity, selectivity, recovery and stability.
- ▶ **For routine screening of compounds,** we employ a number of generic LC-MS/MS optimisation and analysis procedures which guarantee high quality optimisation.

### Services & Capabilities

- ▶ Method development and transfer
- ▶ Method qualification
- ▶ Non-GLP analysis in support of pre-clinical studies
- ▶ Dose-formulation analysis
- ▶ Analysis of biomarkers and endogenous compounds
- ▶ Support to *in vitro* studies
- ▶ Diverse modality analytical support (eg PROTACs, peptides, oligonucleotides)

### Experience

- ▶ Chromatography using different separation modes (including HILIC, ion pair, ion exchange and chiral chromatography)
- ▶ Mass spectrometry including high-resolution MS
- ▶ Microsampling analysis
- ▶ Analysis of chiral compounds
- ▶ Analysis in a wide range of biological matrices like plasma, urine, serum, whole blood, CSF, PBMC and any kind of animal tissues
- ▶ Generation of PK Calculations using WinNonlin software

### Analytical Platforms

- ▶ Liquid chromatography-tandem mass spectrometry (LC-MS/MS)
- ▶ Liquid chromatography-high resolution mass spectrometry (LC-MS, HRMS)
- ▶ Selextion differential ion mobility

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