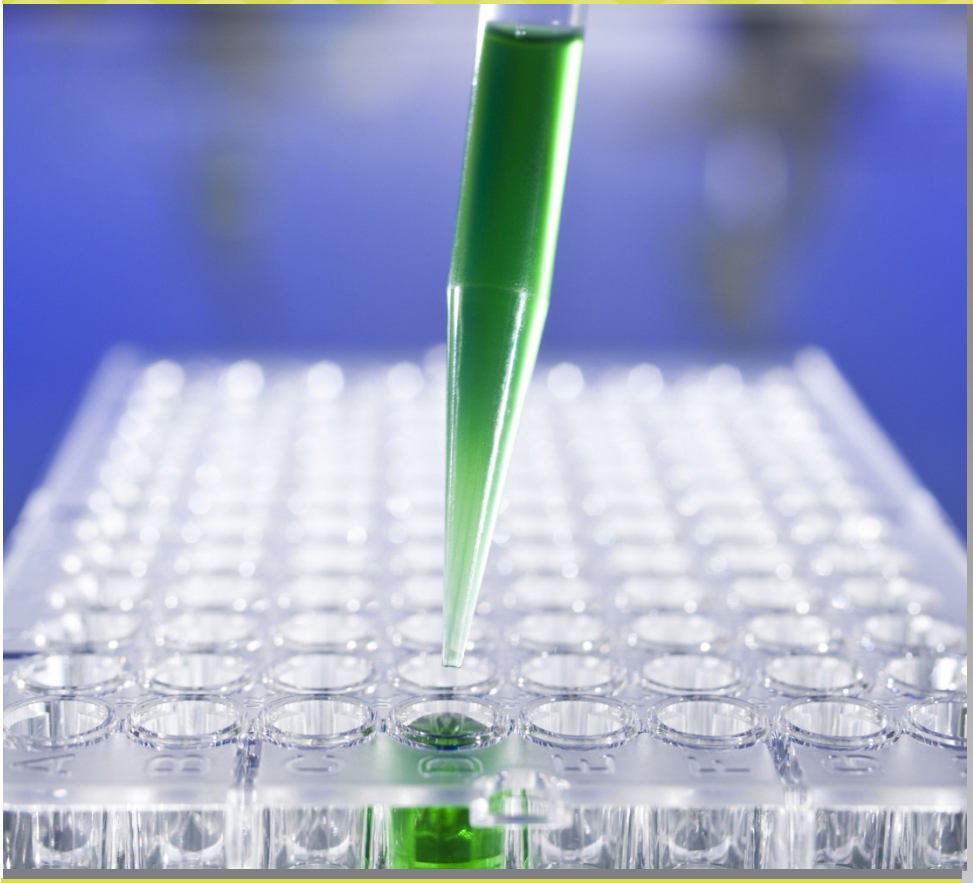
Microsomal Stability



Fast, Accurate and Affordable…

We understand that your timelines and budgets are tight so we've coupled high resolution accurate mass Q-TOF MS with HPLC to help you do more with less. Full-scan data is acquired, from which narrow window extracted ion chromatograms are generated, producing quantitative data equivalent to that obtained by HPLC/MS/MS without the time consuming process of developing distinct, MS methods for each test article. The streamlined work flow means data is returned to you within 72 hours enabling you to guide structural modifications, predict in vivo performance, develop structure-metabolic stability relationships and triage compounds for further studies in real time.

In vitro data is often ambiguous due to low compound solubility frequently observed during the discovery process. The use of a cosolvent minimizes precipitation and reduces non-specific binding to plastics allowing accurate data to be delivered for a higher percentage of compounds.

Bonus: Metabolic route information can be derived from further mining the acquired LC-TOFMS datasets.

Assay Protocol

Compound Requirements

10 µL of 10mM stock solution

Test Compound Concentration

1-5µM

Microsome Concentration

0.5mg/mL (other concentrations available)

Time Points

Screening: 0 and 15, or 30, or 60 min

in vitro $t_{1/2}$: 0, 5, 10, 30, 60

Cofactor

NADPH

Final Cosolvent Concentration

0.2% DMSO

0.8% Acetonitrile

Analysis Method

LC-TOFMS – full scan accurate mass data is acquired

Data Delivery

Delivered within 72 hours

Screening: % Remaining

in vitro $t_{1/2}$: Half Life, Intrinsic Clearance

Cost

Screening: $150.00

In Vitro $t_{1/2}$: $350.00

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