

Service Packages

6

Partnered Services

Service Packages

Analytical Services

V79 Cell Battery™

Toxicology
in vitro / in vivo

ADME
in vitro / in vivo

Our Business



6.1. Screening Package

6.2. Ranking Package

6.3. Metabolism Package

6.4. Drug-Drug Interaction Package

6.5. GenTox Package

6.6. Early ADME-Tox Test Strategy

6.6.1. Early Metabolism Testing

6.6.2. Early Toxicity Testing

6.6.3. Knowledge Based Decision Making

Please contact our experts to discuss your individual test strategy and service packages.

The service packages can be combined with in vivo tests and other partnered services.

6.1. Screening Package

- Cytotoxicity / Hepatotoxicity Screen
- Ames Screen
- Metabolic Stability Screen
- CYP Profiling Screen
- CYP Inhibition Screen

6.2. Ranking Package

- Cytotoxicity / Hepatotoxicity Screen
- Ranking Ames
- Metabolic Stability Screen
- Limited CYP Profiling
- Limited CYP Inhibition

6.3. Metabolism Package

- Metabolic Stability
- Metabolite Profile
- Enzyme Kinetics
- CYP Profiling

6.4. Drug-Drug Interaction Package

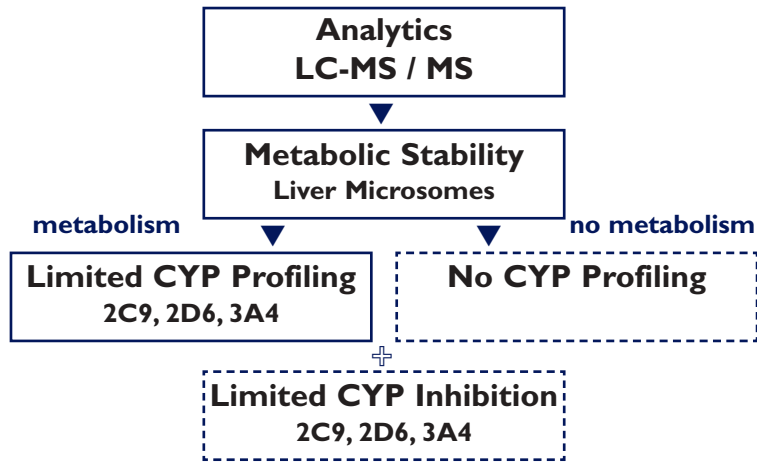
- CYP Inhibition Screen
- CYP Inhibition (IC₅₀)
- CYP Inhibition (K_i)
- CYP Induction

6.5. GenTox Package

- AMES Test
- Cytotoxicity
- Chromosome Aberration or Micronucleus Test
- Mouse Lymphoma Assay or HPRT Test

6.6. Early ADME-Tox Test Strategy

6.6.1. Early Metabolism Testing



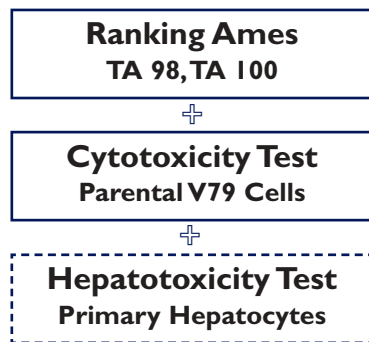
Information

Selective Detection of NCE

Phase I Metabolism:
CYP Dependent Metabolism

- Identification of Critical CYPs:
- 2C9, 2D6 + 3A4 Metabolize ca. 95% of all Drugs
 - 2C9 + 2D6 are Polymorphic
 - 3A4 is Frequently Involved in Drug-Drug Interactions

6.6.2. Early Toxicity Testing



Information

Bacterial Mutagenicity
Frameship and Point Mutations

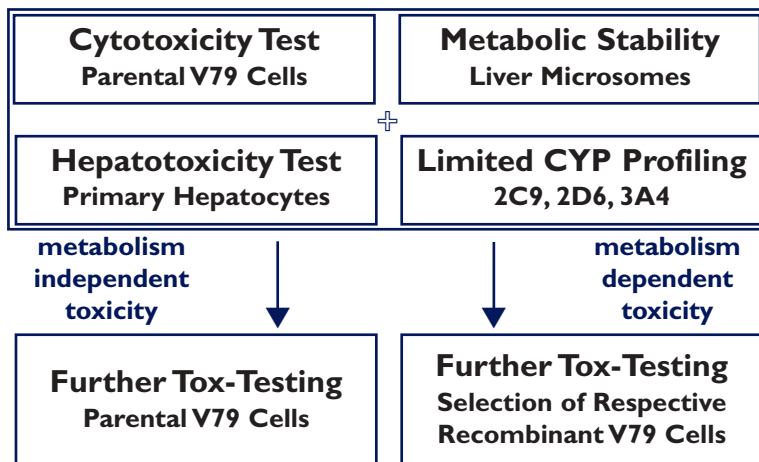
Metabolism Independent
Cytotoxicity

Metabolism Dependent &
Independent Cytotoxicity

Possible Add ons:

- Metabolite Profile (LC-MS) for Phase I + II Metabolism
- CYP Induction (IA2 + 3A4)

6.6.3. Knowledge Based Decision Making



Results of Early ADME-Tox Test Package

e.g., MN *in vitro*, HPRT, Cytotox, CA, Comet-Assay

OECD Recommendation: "A number of developments, including the construction of genetically engineered cell lines expressing specific activating enzymes, may provide the potential for endogenous activation. The choice of the cell lines used should be scientifically justified (e.g. by the relevance of the cytochrome P450 isoenzyme for the metabolism of the test substance)."