



CORE ASSAY LIST 2008

ADME - TOXICOLOGY

REF #	PROJECT TYPE	ASSAY PRINCIPLE	 TURNAROUND TIME	MINIMUM COMPOUND REQUIRED	STANDARD FORMAT
PZADM - 01	CYP induction (activity)	<p>Test model: Measurement of induction of CYP1A and CYP3A4 activity in hepatocytes. Assess if your compound is capable of inducing activity of drug metabolizing enzymes before progressing to clinical development.</p> <p>Assay format: Incubations in 12-well plates. EROD assay and HPLC analysis of samples.</p> <p>Data format: Word™ report with data available in an Excel™ file.</p>	3 weeks per donor	5mg	Up to 3 test compounds at 3 concentrations (plus standard compound) in triplicate
PZADM - 02	CYP induction (gene)	<p>Test model: Measurement of induction of expression of drug metabolising genes e.g CYP1A and CYP3A4 in hepatocytes. Find if your compound is capable of inducing the expression of drug metabolizing enzymes before progressing to clinical development.</p> <p>Assay format: Incubations in 96-well plates. Gene expression measured by qRT-PCR.</p> <p>Data format: Word™ report with data available in an Excel™ file.</p>	5 weeks per donor	5mg	Up to 16 compounds at a single concentration in quadruplicate, or 4 test compounds at 4 concentrations, etc
PZADM - 03	Drug metabolism (hepatic)	<p>Test model: Measurement of metabolic activity of radiolabelled or non-radiolabelled standard and test compounds (RATE: intrinsic clearance and ROUTE: metabolite profiling) in hepatocytes. Understand metabolic activity of your compound in hepatocytes for disposition and safety assessment.</p> <p>Assay format: Incubations in 12-well plates. Drug metabolism.</p> <p>Data format: Word™ report with data available in an Excel™ file.</p>	3 weeks per donor	5mg	RATE = 9 timepoints up to 4 hours. ROUTE = 3 timepoints up to 24 hours Samples returned to client for bioanalysis
PZADM - 04	Drug metabolism (pulmonary)	<p>Test model: Measurement of metabolic activity of radiolabelled or non-radiolabelled standard and test compounds (RATE: intrinsic clearance and ROUTE: metabolite profiling) in parenchymal cells. Understand metabolic activity of your compound in parenchymal cells for disposition and safety assessment.</p> <p>Assay format: Incubations in 12-well plates. Drug metabolism.</p> <p>Data format: Word™ report with data available in an Excel™ file.</p>	6 weeks per donor	5mg	Up to 8 compounds at 1 concentration tested in triplicate. RATE = 9 timepoints up to 4 hours. ROUTE = 3 timepoints up to 24 hours Samples returned to client for bioanalysis

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PZADM - 05	<i>In vitro</i> toxicity	<p>Test model: Measurement of compound toxicity in hepatocytes using cellular ATP, cellular metabolism / viability (MTT, MTS, XTT) endpoints. Assess compound safety before proceeding to clinical development.</p> <p>Assay format: Incubations in 96-well plates. <i>In vitro</i> toxicity profiling.</p> <p>Data format: Word™ report with data available in an Excel™ file.</p>	3 weeks per donor	5mg	Up to 6 compounds at 4 concentrations tested in triplicate
PZADM - 06	<i>In vitro</i> toxicity	<p>Test model: Measurement of toxicity of your compound in hepatocytes using AST, ALT, LDH release endpoints. Assess compound safety before proceeding to clinical development.</p> <p>Assay format: Incubations in 96-well plates. <i>In vitro</i> toxicity profiling.</p> <p>Data format: Word™ report with data available in an Excel™ file.</p>	3 weeks per donor	5mg	Up to 6 compounds at 4 concentrations tested in triplicate

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