


GENETIC TOXICOLOGY

Genetic Toxicology Services and Facilities

With a vast range of assays offered at our sites in North America and Europe, we are able to develop custom testing strategies for our clients to meet the unique requirements of their chemicals and drugs.

	Facilities			
	Montreal, Canada	Skokie, Illinois, USA	Den Bosch, The Netherlands	Veszprém, Hungary
REGULATORY (GLP)				
Bacterial Mutation Tests				
<i>In silico</i> Structure Analysis (Derek, Leadscope, ICH M7)			•	
Bacterial Mutation Test (Ames Test) - OECD 471	•	•	•	•
Bacterial Mutation Test (Ames Test) - OECD 471 - Azo Dye	•	•	•	•
Bacterial Mutation Test (Ames Test) - OECD 471 - Gas	•	•		•
Mini/MicroAmes	•	•	•	•
<i>In vitro</i> Mammalian Cell Tests				
<i>In vitro</i> Mammalian Chromosome Aberration Test (Minituarized) - OECD 473	•	•	•	
<i>In vitro</i> Mammalian Chromosome Aberration Test (HPBL) - OECD 473	•	•	•	
<i>In vitro</i> Mammalian Chromosome Aberration Test (CHO / V79) - OECD 473	•	•		•
<i>In vitro</i> Mammalian Chromosome Aberration Test - OECD 473 - Gas		•		
<i>In vitro</i> Micronucleus Test (Flow Cytometry) - OECD 487	•	•		
<i>In vitro</i> Micronucleus Test (Flow Cytometry) - OECD 487 - Gas		•		
<i>In vitro</i> Micronucleus Test (HPBL, Microscopy) - OECD 487	•	•	•	
<i>In vitro</i> Micronucleus Test (TK6, CHO or L5178Y, Microscopy) - OECD 487	•	•		*
<i>In vitro</i> Micronucleus Test (TK6, CHO, Flow) - OECD 487	•	•		
Mammalian Cell Mutation Test (HPRT) - OECD 476		•		•
Mammalian Cell Mutation Test (TK) - OECD 490	•	•	•	•
<i>In vitro</i> Comet Assay (Human Lymphocyte, HepaRG, Hepatocytes)	•		•	
<i>In vitro</i> Comet Assay (3D Skin Discs)	•			
Fluorescent <i>In situ</i> Hybridization (FISH)		•		
GLP ToxTracker Assay	•			

* Validation ongoing

	Facilities			
	Montreal, Canada	Skokie, Illinois, USA	Den Bosch, Netherlands	Veszprém, Hungary
<i>In vivo</i> Tests				
Rodent Bone Marrow Chromosome Aberration - OECD 475	•		•	•
Rodent Micronucleus Test (Microscopy) - OECD 474	•	•	•	•
Rodent Micronucleus Test (Flow Cytometry) - OECD 474	•	**		
Rodent Dominant Lethal Test - OECD 478 (available upon request)				
Rodent Comet Assay - OECD 489	•	•	•	
Unscheduled DNA Synthesis - OECD 486			•	
Combined Comet/Micronucleus Assay - OECD 474/489	•	•	•	
Combined Comet/Micronucleus Assay added to Tox Study - OECD 474/489	•	•	•	
Pig-a Assay	•			
CREST Staining	*	*		

(Performed at our Horsham, PA site only) *CREST component may be outsourced. Inquire about adding it to the quote
 **available Q2 2020

SCREENING (non-GLP)				
<i>In silico</i> Structure Analysis (Derek, Sarah)			•	
Bacterial Mutation Test (Ames Test), 1-5 Strains	•	•	•	•
Mini/MicroAmes, 1-5 Strains	•	•	•	*
Mammalian Cell Mutation Test (HPRT)		•		
Mammalian Cell Mutation Test (TK)	•	•	•	
<i>In vitro</i> Mammalian Chromosome Aberration Test (HPBL, 2 - 3 conditions)	•	•	•	
<i>In vitro</i> Mammalian Chromosome Aberration Test (CHO / 2 - 3 conditions)	•	•		•
<i>In vitro</i> Micronucleus Test (HPBL, microscopy, 2 - 3 conditions)	•	•	•	
<i>In vitro</i> Micronucleus Test (CHO, microscopy, 2 - 3 conditions)	•	•		*
<i>In vitro</i> Micronucleus Test (TK6, microscopy, 2 - 3 conditions)	•	•		
<i>In vitro</i> Micronucleus Test (CHO, Flow, 2 - 3 conditions)	•	•		
<i>In vitro</i> Micronucleus Test (TK6, Flow, 2 - 3 conditions)	•	•		
CHO/HPRT		•		•
Mammalian Cell Mutation Test (MLA/TK)	•	•	•	•
MultiFlow™ Assay	•	•		
ToxTracker™	•			

* Validation ongoing