



IN VITRO AND ALTERNATIVE TOXICITY TESTS	
3T3 Neutral Red Uptake Phototoxicity Test	OECD 432
Agar Overlay or MEM Elution Cytotoxicity Assay	
Cytotoxicity via Cell Proliferation or Neutral Red Uptake	
MatTek Tissue Equivalent Assays:	
EpiOcular™ MTT Viability, EpiOcular™ Eye Irritation Test (EIT)	OECD 492
EpiDerm™ MTT Viability, EpiDerm™ Skin Irritation Test (SIT)	OECD 439
EpiDerm™ Skin Corrosivity Test (SCT)	OECD 431
EpiOral™ MTT Viability Assay	
EpiVaginal™, EpiAirway™, EpiIntestinal™	
EpiDerm™ Phototoxicity Assay	
<i>In Vitro</i> Testing with Cytokine Endpoints	
Corrositex®	OECD 435
Hens Eggs Test ChorioAllantoic Membrane Test (HET-CAM)	Invitox Protocol #47
Bovine Corneal Opacity & Permeability (BCOP) Assay	OECD 437
Chorioallantoic Membrane Vascular Assay (CAMVA)	
Porcine Corneal Opacity Reversibility Assay (PorCORA)	
IN VITRO AND ALTERNATIVE SENSITIZATION ASSAYS	
Local Lymph Node Assay (LLNA) Flow Cytometry Method	OECD 429
Local Lymph Node Assay (LLNA) BrdU-ELISA	OECD 442B
Photo-Local Lymph Node Assay (Photo-LLNA) – Photo-Sensitization Test	
Photo-Mouse Ear Swelling Test (Photo-MEST)	
Human Cell Line Activation Test (h-CLAT)	OECD 442E
<i>In Vitro</i> Sensitization (IVSA) in EpiDerm™	
Direct Peptide Reactivity Assay - Subcontracted to EAG Laboratories	OECD 442C
GARDskin, GARDpotency, GARDair	
KeratinoSens/LuSens Assay - Subcontracted to Cyprotex Discovery	OECD 442D
GENOTOXICITY, FLOW CYTOMETRY, MECHANISTIC AND SPECIALTY ASSAYS	
Bacterial Reverse Mutation Test (Ames)	OECD 471 / OCSP 870.5100
Anti-Angiogenesis Assay	
Peroxide Production Assay (Lipid Peroxidation)	
Nitric Oxide Synthase Activity (Irritation / Inflammatory Mediator)	
Tyrosinase Activity/Inhibition Assays	

Custom assays, protocol development and interlaboratory validation (ring trial) services are also available upon request.

Where Science Ensures Safety



MB Research Labs

REGULATORY TOXICITY TESTS (*In Vivo*)

EPA/OCSPS Series 870, OECD Series 400, DOT 49 CFR

Acute Oral Toxic Class Determination	OCSPS 870.1000
Acute Oral Toxicity – Up and Down Procedure (UPD)	OCSPS 870.1100, OECD 420
Acute Dermal Toxicity/LD ₅₀ in Rabbits	OCSPS 870.1200, OECD 402
Acute Inhalation Toxicity/LC ₅₀ in Rats	OCSPS 870.1300, OECD 403
Acute Eye Irritation in Rabbits	OCSPS 870.2400
Acute Dermal Irritation in Rabbits	OCSPS 870.2500, OECD 404
Delayed Contact Dermal Sensitization Test (Buehler)	OCSPS 870.2600
Guinea Pig Maximization Test (Magnusson-Kligman)	OECD 406

Federal Hazardous Substances Act (FHSA)

Single Dose Oral Toxicity/LD ₅₀ in Rats
Acute Dermal Toxicity in Rabbits
Primary Dermal Irritation/Corrosion in Rabbits
Acute Eye Irritation in Rabbits
Acute Inhalation Toxicity/LC ₅₀ in Rats

ISO/USP and SPECIALTY

Dermal Irritation
Muscle Implantation
Intracutaneous Irritation
Systemic Injection Test in Mice
ISO Guinea Pig Maximization Test (Magnusson-Kligman)
ISO Guinea Pig Sensitization Test (Buehler Method)
Comedogenicity Assay
Vaginal, Anal, Penile or Buccal Mucosal Irritation
<i>In Vivo</i> Photo-Irritation/Toxicity (in rodents)
Pharmacokinetic/Toxicokinetic Studies
Emesis Model
Intranasal Studies
Mouse Ear Swelling Test (MEST)
Wound-Healing Studies