

Alternative OECD Test Guidelines– Summer 2021

Endpoint	Title	OECD TG	adopted	revised	3R relevance
Acute Toxicity	Acute Oral Toxicity - Fixed Dose Procedure	420	1992	2001	Reduction
	Acute Oral toxicity - Acute Toxic Class Method	423	1996	2001	Reduction
	Acute Oral Toxicity: Up-and-Down Procedure	425	1998	2008	Reduction
	Acute Inhalation Toxicity - Acute Toxic Class Method	436	2009		Reduction
	Fixed Dose Procedure as alternative to TG 403	433	2017	2018****	Reduction and Refinement
Eye corrosion and irritation	Bovine Corneal Opacity and Permeability (BCOP) test method	437	2009	2013, 2017, 2020	Replacement
	Isolated chicken eye (ICE) test method	438	2009	2013, 2017, 2018	Replacement
	Fluorescein Leakage (FL) test method	460	2012	2017	Replacement
	Short Time Exposure test method (STE)	491	2015	2017, 2020	Replacement
	Reconstructed human cornea-like epithelium test method (RhCE)	492	2015	2017, 2018, 2019	Replacement
	Vitrigel-Eye Irritancy Test Method for Identifying Chemicals Not Requiring Classification and Labelling for Eye Irritation or Serious Eye Damage	494	2019	2021	Replacement
	In vitro Macromolecular Test Method for Identifying Chemicals Inducing Serious Eye Damage and Chemicals not Requiring Classification for Eye Irritation or Serious Eye Damage	496	2019		Replacement
Skin corrosion and irritation	Transcutaneous Electrical Resistance test method (TER)	430	2004	2013/2015	Replacement
	In vitro skin corrosion: Reconstructed human epidermis test method (RhE)	431	2004	2013/2014/2015/2016/2019	Replacement
	In vitro membrane barrier test for skin corrosion	435	2006	2015	Replacement
	in vitro skin irritation: Reconstructed human epidermis test method (RhE)	439	2010	2013/2015/2019/2020****/2021	Replacement
Skin sensitisation	Skin Sensitization: Local Lymph Node Assay (LLNA)	429	2002	2010	Reduction and refinement
	Skin Sensitization: Local Lymph Node Assay: DA	442A	2010		Adaptation to technical progress***
	Skin Sensitization: Local Lymph Node Assay: BrdU-ELISA	442B	2010	2018	Adaptation to technical progress***

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	In Chemico Skin Sensitisation: Direct Peptide Reactivity Assay (DPRA, ADRA)	442C	2015	2019/2020****/ 2021	Replacement**
	In Vitro Skin Sensitisation: ARE-Nrf2 Luciferase Test Method (Keratinosens, LuSens)	442D	2015	2018	Replacement**
	Key event based TG (KE3) including Human-cell line activation test (h-CLAT), U-SENS, IL8 LUC	442E	2016	2017	Replacement**
	Guideline on Defined Approaches for Skin Sensitisation	497	2021		Replacement
Genotoxicity	Bacterial reverse mutation test – Ames-Test	471	1983	1997/2020****	Replacement
	In vitro mammalian Chromosome Aberration Test	473	1983	1997/2014/2016/2 017	Replacement
	In vitro mammalian cell gene mutation test using Hprt and xprt genes	476	1984	1997/2015	Replacement
	In Vitro Mammalian Cell Micronucleus Test	487	2010	2014	Replacement
	In Vitro Mammalian Cell Gene Mutation Assays Using the Thymidine Kinase	490	2015		Replacement
Endocrine disruption	Performance based test guideline for the Stably Transfected Transcriptional Activation (STTA) Assay to detect estrogen receptor agonists and antagonists	455	2009	2012/2015/2016	Replacement*
	H295R Steroidogenesis Assay	456	2011		Replacement*
	Performance-Based Test Guideline for the human Recombinant Estrogen Receptor Alpha Binding Assays (hrER α)	493	2015		Replacement*
	Stably Transfected Human Androgen Receptor Transcriptional Activation Assay for Detection of Androgenic Agonist and Antagonist Activity of Chemicals	458	2016	2020	Replacement*
Absorption and metabolism	Skin absorption: In vitro method	428	2004		Replacement
Phototoxicity	In Vitro 3T3 NRU Phototoxicity Test	432	2004	2019	Replacement

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	Ros (Reactive Oxygen Species) Assay for Photoreactivity	495	2019		Replacement
	In vitro Phototoxicity: Reconstructed Human Epidermis Phototoxicity test method	498	2021		Replacement

* Screening and prioritisation only

** TG 442C, TG 442 D und TG 442 E in combination

***to increase predictivity and to avoid additional testing

****minor correction, not on the workplan