

Classification	Test method	Validation study	Peer reviews by experts	Test guidelines	Regulatory acceptance by, e.g., JaCVAM Regulatory acceptance board	Recommendation to government
01 Corrosivity Test	01 Reconstructed Human Epidermis (RHE) Test Method, MeVitrolife-skin™	NIHS & JSAAE 	JaCVAM 		Jun.2008 	Aug.2008
	02 Reconstructed Human Epidermis (RHE) Test Method, EpiSkin™, EpiDerm™ SCT, SkinEthics™ RHE, epiCS®	EURL ECVAM 	EURL ECVAM & ICCVAM 	OECD TG No. 431 	May 2017 	Jun.2017
	03 Transcutaneous Electrical Resistance Test Method (TER)	EURL ECVAM 	EURL ECVAM & ICCVAM 	OECD TG No. 430 	Aug.2017 	Oct.2017
	04 <i>In Vitro</i> Membrane Barrier Test Method	EURL ECVAM 	EURL ECVAM & ICCVAM 	OECD TG No. 435 	Aug.2017 	Oct.2017
	05 Reconstructed Human Epidermis (RHE) Test Method, LabCyte EPI-MODEL24 SCT	J-TEC 	JaCVAM 	OECD TG No.431 		
02 Phototoxicity	01 <i>In Vitro</i> 3T3 NRU Phototoxicity Test	COLIPA/ EURL ECVAM 	NIHS 	OECD TG No. 432 		
	02 Yeast-RBC (Red Blood Cell) assay	NIHS & JSAAE 	JaCVAM 		Jan.2010 	
	03 Ros (Reactive Oxygen Species) Assay for Photoreactivity	NIHS & JPMA 	JaCVAM 	ICH OECD TG S10 No. 495 	Nov.2015 	Jan.2016
	04 Reconstructed Human Epidermis (RHE) Test Method	BfR 	ESAC 	OECD 		
03 Eye Irritation Test	01 Bovine Corneal Opacity and Permeability Test Method (BCOP)	EURL ECVAM & ICCVAM 	EURL ECVAM & ICCVAM 	OECD TG No. 437 	Oct.2013 	Jan.2014
	02 Isolated Chicken Eye Test Method	EURL ECVAM & ICCVAM 	EURL ECVAM & ICCVAM 	OECD TG438 	Oct.2014 	Jan.2015
	03 Fluorescein Leakage (FL) Test Method	EURL ECVAM & ICCVAM 	EURL ECVAM 	OECD TG No. 460 	Oct.2012 	Dec.2012
	04 Cytosensor Microphysiometer (CM) Toxicity Test	EURL ECVAM 	EURL ECVAM 	OECD 		
	05 Short Time Exposure <i>In Vitro</i> Test Method	NIHS & Kao 	ICCVAM 	OECD TG No. 491 	Jun.2016 	Mar.2016
	06 SIRC-CVS (Crystal Violete Staining) Assay	NIHS & Shiseido 	JaCVAM 			
	07 Reconstructed Human Epidermis (RHE) Test Method, MATREX	NIHS 				
	08 Reconstructed Human Cornea-like Epithelium(RhCE) Test Method, EpiOcular™ EIT	COLIPA/ EURL ECVAM 	EURL ECVAM 	OECD TG No. 492 	Jul.2016 	Jan.2017
	09 Reconstructed Human Cornea-like Epithelium (RhCE) Test Method, SkinEthics™ HCE EIT	Loreal 	EURL ECVAM 	OECD TG No. 492 	Mar.2018 	
	10 Vitrigel-EIT (Eye Irritancy Test Method)	MAFF 	JaCVAM 	OECD TG No. 494 		
	11 Reconstructed Human Cornea-like Epithelium (RhCE) Test Method, LabCyteCORNEA-MODEL24 EIT	JSAAE 	JaCVAM 	OECD TG No. 492 	Feb.2019 	Feb.2019
	12 Macromolecular test method	InVitro International 	ESAC 	OECD 		
	13 OECD TG No.405 (2012)		ICCVAM review 	OECD TG No. 405 	Oct.2013 	Jan.2014

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04 Skin Sensitization Test	01 LLNA(Local Lymph Node Assay)		ICCVAM 	OECD TG No. 429 		
	02 rLLNA(reducedLLNA)	EURL ECVAM & ICCVAM 	ICCVAM 	OECD TG No. 429 	Jul.2012 	Dec.2012
	03 LLNA:DA	NIHS & JSAAE 	JaCVAM or ICCVAM 	OECD TG No. 442A 	Oct.2012 	Dec.2012
	04 LLNA:BrdU-ELISA	NIHS & JSAAE 	JaCVAM or ICCVAM 	OECD TG No. 442B 	Oct.2012 	Jan.2013
	05 LLNA:BrdU-FCM	KoCVAM 	OECD 	OECD TG No. 442B 		
	06 DPRA(Direct Peptide Reactivity Assay)	EURL ECVAM 	EURL ECVAM 	OECD TG No. 442C 	Feb.2015 	Mar.2015
	07 ADRA (Amino acid Derivative Reactivity Assay)	LRI & JSAAE 	JaCVAM 	OECD TG No. 442C 		
	08 KeratinoSense™	EURL ECVAM 	EURL ECVAM 	OECD TG No. 442D 	Apr.2015 	Jul.2015
	09 LuSens™	BASF 	EURL ECVAM 	OECD TG No. 442D 		
	10 h-CLAT	NIHS & EURL ECVAM 	EURL ECVAM 	OECD TG No. 442E 	Mar.2017 	Mar.2017
	11 IL-8 Luc Assay	METI & JSAAE 	JaCVAM 	OECD TG No. 442E 		
	12 U-SENS™	Loreal 	EURL ECVAM 	OECD TG No. 442E 	Aug.2018 	Dec.2018
	13 SENS-IS™	ImmunoSearch 	ESAC 	OECD 		
	14 GARD™	3RsMC 	ESAC 	OECD 		
	15 kDPRA	BASF 	ESAC 	OECD 		
	16 EpiSensA	JSAAE & LRI 				
05 Skin Irritation Test	01 Reconstructed Human Epidermis (RHE) Test, LabCyte EPI-MODEL24 SIT	NIHS 	OECD 	OECD TG No. 439 	Jun.2013 	Dec.2013
	02 Reconstructed Human Epidermis (RHE) Test, EpiSkin™, EpiDerm™ SIT, SkinEthics™ RHE)	EURL ECVAM 	EURL ECVAM 	OECD TG No. 439 	Mar.2013 	Mar.2013
	03 Reconstructed Human Skin Test, LbL	JSAAE 				
06 Skin Absorption Test	01 <i>In Vitro</i> Skin absorption test		OECD 	OECD TG No. 428 	Oct.2013 	Jan.2014
07 Acute Oral Toxicity Test	01 Cytotoxicity Test (estimate starting doses for acute oral systemic toxicity tests)	EURL ECVAM & ICCVAM 	ICCVAM 	OECD GD No. 129 	Apr.2011 	Jun.2011
	02 Cytotoxicity test (LD50 ≥ 2000mg/Kg)	EURL ECVAM 	EURL ECVAM 	EURL ECVAM recommendation 		

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08 Genotoxicity Test	01 OECD TG No.473,476,487,490		OECD	OECD TG No. 473, 476, 487, 490	NIHS	
	02 <i>In Vitro Mammalian Alkaline Comet Assay</i>	NIHS				
	03 <i>In Vivo Mammalian Alkaline Comet Assay</i>	NIHS	OECD	OECD TG No. 489		
	04 Pig-A	FDA		OECD		
	05 Reconstructed Human Epidermis (RHE) Test	COLIPA/ EURL ECVAM				
09 Endocrine Disrupter Screening	01 Stably Transfected TA (STTA) assay using the (h) ER α -HeLa-9903 cell line	METI & MHLW	OECD	OECD TG No. 455	Dec.2016	Dec.2016
	02 VM7 Luc ER TA assay	ICCVAM	ICCVAM	OECD TG No. 455	Oct.2013	Jan.2014
	03 CCi assay	ICCVAM				
	04 MELN assay	EURL ECVAM				
	05 AR-Ecoscreen	METI & MHLW	OECD	OECD TG No. 458	Dec.2018	Feb.2019
	06 AR-CALUX, 22Rv1/MMTV	EURL ECVAM & Korea	ESAC&Korea	OECD TG No. 458		
	07 <i>In Vitro</i> Estrogen Receptor Binding Assay	EPA, CERI	OECD	OECD TG No. 493		
10 Embryonic Toxicity Screening	01 Hand1-Luc Assay	METI & LRI	JaCVAM	OECD		
11 Metabolism	01 CYP Induction Method	EURL ECVAM	EURL ECVAM	OECD		
	02 PBK Model			OECD		
12 Immune Toxicity Test	01 IL-2 Luc assay	Tohoku Univ.	JaCVAM			
	02 IL-1 β assay	Tohoku Univ.				
13 Cell Transformation Assay (CTA) for the Screening of Carcinogenic Activity of Chemicals	01 Bhas 42 CTA	NEDO	EURL ECVAM	OECD GD		
	02 SHE CTA	EURL ECVAM	EURL ECVAM	OECD GD	Mar.2018	
	03 Balb CTA	EURL ECVAM	EURL ECVAM	OECD		
14 Pyrogen Screening test	01 PBMC (Peripheral Blood Mononuclear Cell) Assay	EURL ECVAM	EURL ECVAM or ICCVAM	Ph. Eur.	Dec.2010	

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All abbreviations that have been used in this table are listed in "Abbreviations".

