

Ecotoxicological tests of the Research Infrastructure unit of SYKE

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The laboratory of Finnish Environment Institute is Finnish Accreditation Service (FINAS) accredited testing laboratory T003, under requirement SFS-EN ISO/IEC 17025. Current scope of accreditation can be checked from www.finas.fi.

Testi	Standard/Guideline	Sample matrix	Applicability
Algal growth inhibition test with green algae*	SFS-EN ISO 8692:2012, modified, ISO /TR 11044:2008, (21-217)	Water, Extracts	Laboratory
Determination of the toxic effect of water constituents and waste water on duckweed (<i>Lemna minor</i>) -- Duckweed growth inhibition test	ISO 20079:2005	Water, Extracts	Laboratory
Luminescent bacteria test *	SFS EN ISO 11348-3:2007, modified, (21-212)	Water, Extracts	Laboratory
Kinetic luminescent bacteria test for turbid and coloured samples*	SFS EN ISO 21338:2010, (21-216)	Water, Extracts	Laboratory
Acute toxicity test, <i>D. magna</i> * Acute toxicity test, <i>D. longispina</i>	SFS EN ISO 6341:2012 (E), (21-211)	Water, Extracts	Laboratory Field (<i>in situ</i>)
Chronic toxicity test, <i>D. magna</i> * Chronic toxicity test, <i>D. longispina</i>	OECD 211:2012, (21-220)	Water, Extracts	Laboratory
Freshwater snail (<i>Lymnaea stagnalis</i>) growth inhibition test	In-house method, OECD 243	Water, Extracts	Laboratory Field (<i>in situ</i>)
Determination of the inhibition of the emergence of a midge (<i>Chironomus riparius</i>)	OECD 218/219/233	Sediment Water, Extracts	Laboratory
Determination of the inhibition of the mobility of a midge (<i>Chironomus riparius</i>)	OECD 235	Water, Extracts	Laboratory Field (<i>in situ</i>)
Determination of the inhibition of the growth of a midge (<i>Chironomus riparius</i>)	OECD 218/219	Water, Extracts	Laboratory Field (<i>in situ</i>)
Determination of the morphological deformities of midge larvae (<i>Chironomus riparius</i>)	In-house method	Sediment	Field (<i>in situ</i>)
Determination of the morphological deformities of caddis fly larvae (<i>Trichoptera</i>)	In-house method	Water	Field (<i>in situ</i>)
Determination of the inhibition of the growth and reproduction of an oligochaete (<i>Lumbriculus variegatus</i>)	OECD 225	Sediment	Laboratory

Bioaccumulation in sediment-dwelling benthic oligochaete (<i>Lumbriculus variegatus</i>)	OECD 315	Sediment	Laboratory Field (<i>in situ</i>)
Determination of the behavioural changes in invertebrates using Multispecies Freshwater Biomonitor device	In-house method, Gerhardt et al. 1994; Environment International 20:209-219.	Water Sediment	Laboratory Field (<i>in situ</i>)
Determination of the genotoxicity of water and waste water using the umu-test	ISO 13829:2000	Water, Extracts	Laboratory
Determination of the estrogenic potential of water, waste water and extracts – Yeast estrogen screen (A-YES)	ISO 19040-2:2018	Water, Extracts	Laboratory
Cytotoxicity in rainbow trout (<i>Oncorhynchus mykiss</i>) cells detected as neutral red retention (NRR)	In-house method	Water, Extracts	Laboratory
Screening test for emergence of plant seedlings	In-house method, ISO 17126, ISO 11269-2 and US EPA 600/3-88-029	Soil, Solid samples (Waste)	Laboratory
Effects of pollutants on earthworms -- Part 1: Determination of acute toxicity to <i>Eisenia fetida</i> / <i>Eisenia andrei</i>	ISO 11268-1:2012	Soil,	Laboratory
Effects of pollutants on earthworms -- Part 2: Determination of effects on reproduction of <i>Eisenia fetida</i> / <i>Eisenia andrei</i>	ISO 11268-2:2012	Solid samples (Waste)	Laboratory

* Current scope of accreditation