



SYKE

## Ecotoxicological tests of the Laboratory Centre of SYKE

Testi	Standard/Guideline	Sample matrix	Applicability
Freshwater algal growth inhibition test with unicellular green algae	SFS-EN ISO 8692:2012	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
Determination of the inhibitory effect of water samples on the light emission of <i>Vibrio fischeri</i> (Luminescent bacteria test) -- Part 3: Method using freeze-dried bacteria *	SFS EN ISO 11348-3:2007	Water, Extracts	Laboratory
Kinetic determination of the inhibitory effects of sediment, other solids and coloured samples on the light emission of <i>Vibrio fischeri</i> (kinetic luminescent bacteria test) *	SFS EN ISO 21338:2011	Water, Extracts	Laboratory
Determination of the inhibition of the mobility of <i>Daphnia magna</i> Straus (Cladocera, Crustacea) -- Acute toxicity test <i>D. magna</i> * <i>D. longispina</i>	SFS EN ISO 6341:2007 ja OECD 202	Water, Extracts	Laboratory Field ( <i>in situ</i> )
Determination of long term toxicity of substances to <i>Daphnia magna</i> Straus (Cladocera, Crustacea) <i>D. magna</i> * <i>D. longispina</i> *	ISO 10706:2000 and OECD 211	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	In-house method,	Water	Laboratory

invertebrates using Multispecies Freshwater Biomonitor device	Gerhardt et al. 1994; Environment International 20:209-219.	Sediment	Field ( <i>in situ</i> )
Determination of the genotoxicity of water and waste water using the umu-test	ISO 13829:2000	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

\*Finnish Accreditation Services accredited test