

AquaTech Testing & Environmental Laboratory Ecotoxicological Testing



AquaTech Testing & Environmental Laboratory is part of DHI, a global, independent research and consulting organisation. We bring more than 30 years of experience with ecotoxicological testing. Our laboratory performs ecotoxicological tests accredited by DANAK (**ISO 17025**) and is authorised to carry out studies in compliance with the OECD Principles of Good Laboratory Practice (**GLP**).

Ecotoxicological tests performed at DHI

The environmental laboratory at DHI offers a wide range of tests for regulatory purposes in addition to tailor-made studies designed to suit special needs of our clients. We can provide test strategy development and testing in compliance with relevant regulations. Our experience with freshwater and marine ecotoxicological tests include testing of:

- ◇ Chemicals and chemical products (e.g., for registration according to REACH and OSPAR/HOCNF)
- ◇ Whole effluents (e.g., wastewaters, effluents from ballast water management systems and produced water)
- ◇ Contaminated sediments, porewater and eluate extracts (e.g, from harbours and dredging activities)
- ◇ Tailored studies (e.g., for validation, research and development)

Selected test organisms



Why choose the Ecotoxicological laboratory at DHI?

- ◇ Wide range of tests customised for specific needs and compliant with international standards.
- ◇ Expert environmental consultancy and assistance in regulatory requirements.
- ◇ Flexible laboratory and client-focused consultancy. We're with you every step of the way.

Learn more!



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The expert in **WATER ENVIRONMENTS**



Selected Ecotoxicological Tests at DHI

Freshwater Toxicity and Bioaccumulation Tests

Algae, Freshwater Alga and Cyanobacteria, Growth Inhibition Test (<i>Raphidocelis subcapitata</i> ; <i>Desmodesmus subspicatus</i>).	OECD 201 / ISO 8692
Crustacean, Daphnia sp., Acute Immobilisation Test (<i>Daphnia magna</i>).	OECD 202 / ISO 6341
Crustacean, <i>Daphnia magna</i> Reproduction test.	OECD 211 / ISO 10706
Crustacean, Chronic toxicity to <i>Ceriodaphnia dubia</i> .	ISO 20665
Fish, Acute Toxicity Test (e.g. <i>Danio rerio</i> ; <i>Oryzias latipes</i>).	OECD 203 / ISO 7346
Fish, Early-life stage toxicity test (e.g. <i>Danio rerio</i> ; <i>Oryzias latipes</i>).	OECD 210
Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages (e.g. <i>Danio rerio</i> ; <i>Oryzias latipes</i>).	OECD 212
Fish, Embryo Acute Toxicity Test (e.g. <i>Danio rerio</i>).	OECD 236
Fish, Juvenile Growth Test (e.g. <i>Danio rerio</i>).	OECD 215
Fish, Endocrine effects, Short-Term Reproduction Assay (e.g. <i>Danio rerio</i> ; <i>Oryzias latipes</i>).	OECD 229
Fish, Endocrine effects, 21 day Fish Assay; Screening (e.g. <i>Danio rerio</i> ; <i>Oryzias latipes</i>).	OECD 230
Fish, Endocrine effects, Sexual Development Test (e.g. <i>Danio rerio</i> ; <i>Oryzias latipes</i>).	OECD 234
Bioaccumulation, Bioconcentration: Flow-through Fish Test (e.g. <i>Danio rerio</i>).	OECD 305

Marine Toxicity and Bioaccumulation Tests

Algae, Marine algal growth inhibition test (e.g. <i>Skeletonema</i> sp.).	ISO 10253
Crustacean, Acute lethal toxicity to marine copepods (<i>Acartia tonsa</i>).	ISO 14669
Crustacean, Calanoid copepod early-life stage test with <i>Acartia tonsa</i> .	ISO 16778
Fish, Acute Toxicity Test (e.g. <i>Cyprinodon variegatus</i> ; <i>Dicentrarchus labrax</i> ; <i>Scophthalmus maximus</i>).	OECD 203/ OSPAR 2006
Fish, Early-life stage toxicity test (e.g. <i>Cyprinodon variegatus</i>).	OECD 210
Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages (e.g. <i>Cyprinodon variegatus</i>).	OECD 212
Microorganisms, Inhibitory effect of water samples on the light emission of <i>Vibrio fischeri</i> (Luminescent bacteria test).	ISO 11348-3
Sea Urchin, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms (<i>Paracentrotus lividus</i>).	EPA Method 1008.0
Determination of the toxicity of water samples on the embryo-larval development of Japanese oyster (<i>Crassostrea gigas</i>) and mussel (<i>Mytilus edulis</i> or <i>Mytilus galloprovincialis</i>).	ISO 17244
Amphipod; Sediment Bioassay using an Amphipod (<i>Corophium</i> sp.).	OSPAR 2006 / ISO 16712

Biodegradability tests

Ready Biodegradability – Closed bottle test.	OECD 301D / ISO 10707
Ready Biodegradability – Manometric respirometry test.	OECD 301F
Biodegradability in Seawater.	OECD 306
Simulation tests to assess the biodegradability of chemicals discharged in wastewater.	OECD 314

Other standard tests and tailored tests — Please contact us with your request

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