



Original thinking... applied

Fish – Acute Toxicity Test

This test is designed to determine the effects of the test material on fish. Fish species typically tested include rainbow trout, fathead minnow and zebra fish.

Fish are exposed to the test material for a period of 96 hours. Studies can be performed as static, no renewal over the 96 hour exposure period, semi-static with renewal of the test media every 24 hours or as flow-through with constant replacement of the test media.

Fish are observed for mortality at least every 24 hours of the exposure period. Samples are taken for analysis at the start and end of the appropriate exposure period to determine the concentrations tested.

LC₅₀ values – the concentration of the test chemical which is estimated to cause 50% mortality of the fish within a defined exposure period – are calculated.

In addition, the No Observed Effect Concentration (NOEC) and Lowest Observed Effect Concentration (LOEC) values may also be calculated.

Test Guidelines and References

OECD Guidelines for the Testing of Chemicals.

Guideline 203: Fish, Acute Immobilisation Test, adopted 18 June 2019.

FERA'S WORK IN AQUATIC ECOTOXICOLOGY

Fera offers a full package of studies to GLP compliant studies on aquatic organisms. Fera tests for the potential toxic effects of plant protection active ingredients and products, veterinary products, biocides, industrial chemicals and their significant metabolites in accordance with current OECD and if appropriate EPA guidelines, covering the requirements for the registration process.

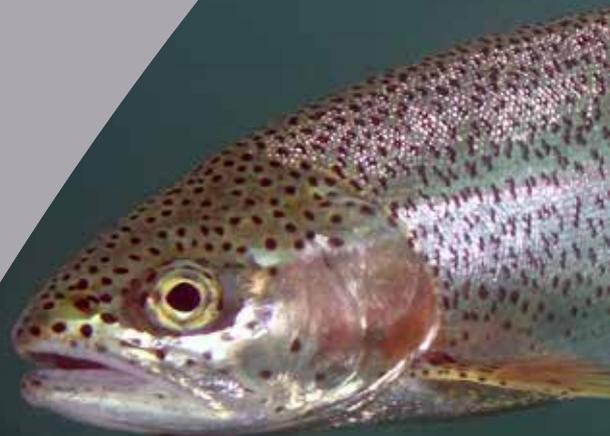
All of Fera's studies are planned and performed by an experienced team of scientists and technical personnel, with the analytical dose verification and fate of the active ingredient(s) performed as close as possible in parallel to the biological part of the study. We can also adapt our services to provide bespoke tests that meet your specific data requirements.

MORE ABOUT FERA

Fera is based at the National Agri-Food Innovation Campus near York, UK.

We work closely with plant protection and veterinary medicine product manufacturers to help develop effective, sustainable and safe chemical products that minimise ecosystem impacts and pollution, while maximising the beneficial effects for crops, plants and animals.

Combining the extensive expertise of our scientists with advanced resources and GLP-compliant laboratories, we provide valuable support to companies in their chemical evaluation and registration efforts.



GET IN TOUCH

For more information and to book a test, call Fera on **+44 (0)300 100 0321**,

email sales@fera.co.uk or visit

www.fera.co.uk/chemical-regulation