

EcoTox Research Laboratory



AquaBioTech Group is an international aquaculture and fisheries consulting company strategically located in the Mediterranean, on the island of Malta. It operates globally, with clients and projects in over fifty-five countries. Staff are recruited from across the globe, enabling communication with clients in thirteen languages.

AquaBioTech Group undertakes a variety of aquaculture, fisheries, marine surveying, aquatic environmental, financial, and technical projects, performed with its selected, worldwide partners.

GLP MARINE AQUATIC ECOTOXICOLOGY

AREAS OF APPLICATIONS

- Industrial chemicals
- Veterinary drugs
- Feed additives
- Cosmetic products
- Biocides

EXPERTISE AND SPECIAL SKILLS

- Environmental toxicity studies on aquatic organisms
- Residue studies
- Studies on behaviour in water
- Bioaccumulation
- Endocrine disruption



Models species available:

- **Algae**

Toxicity tests on algae are assessed in accordance with the latest OECD guidelines. We have several species cultured in-house (green microalgae and diatoms) and have been working with marine microalgae for several years. Tests with different species, freshwater or marine, can be established on request.

- **Aquatic invertebrates**

Toxicity tests with aquatic invertebrates are available with freshwater and marine species, notably with mysids, brine shrimps and rotifers.

- **Fish**

We have extensive experience working with a wide array of freshwater and marine fish species and can perform acute or chronic studies according to standard guidelines (OECD 203, 210, etc.). Our wet labs are specifically designed to run large-scale short and long-term trials, with a wide range of tank sizes, from 10-1500 L.



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ECOTOX RESEARCH LABORATORY

Many regulations require ecotoxicological studies in order to fulfil applications for registration, such as the European REACH regulation on chemicals and the Certification of Bioplastics. The EcoTox research laboratory at **AquaBioTech Group** uses universally recognised techniques to measure and screen hazardous substances which are released or may be released into the environment.

TEST FACILITIES

AquaBioTech Group has a fully equipped GLP EcoTox laboratory. In parallel, microbiology and ecology laboratories are available and offer transdisciplinary options. For long-term studies, the wet-labs are divided into separate areas so as to ensure maximum biosecurity and client confidentiality.

Each of the wet-rooms contains a set of holding tanks with self-contained recirculation aquaculture systems (RAS) providing high-level mechanical, chemical and biological filtration, with cutting-edge 24/7 monitoring system and skilled in-situ veterinarians. The RAS units have the option of continuous UV, ozone or combined treatment. Systems operate with freshwater or seawater with operational temperatures ranging from 10°C to 32°C. Alternatively, tanks can be run in isolation and multiple RAS units can be operated within on Bay, isolating batches of tanks.

