

Medicines in Aquaculture

Chemotherapeutant and vaccine regulatory approval portfolios require high quality safety and efficacy assessments. The CEFAS Weymouth laboratory can help you to achieve approval for a new product or changed formulation by providing thorough experimental evidence of the very highest scientific quality.



For total confidence in results that are reliable and will withstand rigorous regulatory scrutiny, we offer you a cost effective, tailored service for:

EFFICACY AND SAFETY ASSESSMENTS

ENVIRONMENTAL IMPACT ASSESSMENTS

DOSE TITRATION TRIALS

PHARMACOKINETIC STUDIES INCLUDING RESIDUE
AND WITHDRAWAL DETERMINATIONS

CHEMOTHEROPEUTANT AND VACCINE RESEARCH

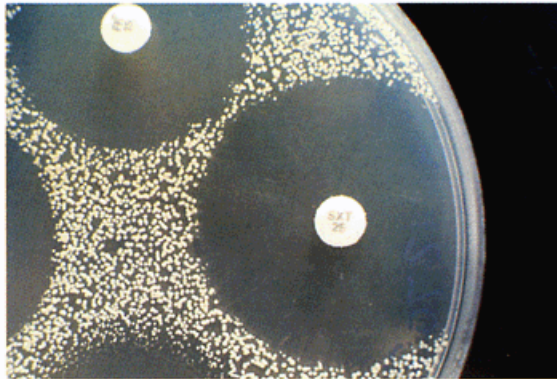
Dependable study results

- Precise control and reproducibility of water temperature, salinity and illumination in our state-of-the-art fish tanks ensure measured effects are due to your product not to 'tank effect' factors.

- As a National Reference Laboratory we are uniquely placed to obtain specific pathogen free fish.
- Use of challenge protocols which closely reflect the way fish acquire and develop infection in the fish farm environment ensure that product evaluation will be relevant to conditions of use.
- Our work is conducted to exacting quality standards by highly trained professional staff.

Comprehensive assessment service

- Our fish holding system has a large number of independently controllable tanks so studies on freshwater and marine fish, from arctic to tropical water temperatures, can be conducted simultaneously.
- We can assess an unlimited range of therapeutants and vaccines for prevention and control of diseases from anywhere in the world.



Cost Effectiveness

- Investment in our purpose built fish tanks backed up by an internationally renowned research programme means our services are highly cost effective.

Responsiveness

- The unique versatility of our automated facilities means that we can meet client needs for complex product assessments to demanding deadlines.

Impartial, confidential service

- We are independent of any manufacturer, have a detailed knowledge of relevant regulations and registration procedures, and a long established track record for the quality and integrity of our work.
- We are experienced in undertaking work for clients who are engaged in commercially sensitive development projects and can be relied upon to respect client confidentiality.

Detailed Specifications

Challenge Protocols

Wide range of disease challenges to meet your precise requirements

- Standard challenges for bacterial diseases of fish - furunculosis (*Aeromonas salmonicida*), Enteric Redmouth (*Yersinia ruckeri*), Rainbow Trout Fry Syndrome (*Flavobacterium psychrophilum*) and viral diseases VHS, IHN, SVC and IPN available, but any other pathogens can be also accommodated.
- Intra peritoneal, bath and co-habitant route challenge protocols available.

Tank Facilities

- Precise water temperature control and logging between 5°C and 30°C to within 0.1°C sustained for long periods. Water temperature fluctuations affect the behaviour of therapeutants and their pharmacokinetics in fish so, to meet regulatory requirements, it is essential to ensure strict control of the test environment.
- Lighting conditions can affect fish behaviour and hence uptake of medicated feed, so close control is needed to ensure reproducibility within trials.
- Double sterilisation of effluent using ozone and ultra violet (with additional primary ozone sterilisation available) means that we can safely test therapeutics and vaccines against virulent pathogens from anywhere in the world.
- Marine and freshwater supplies allow any salinity from 0 to 35‰.

For further information about any of our services or to discuss your needs with one of our specialists please contact