



# rpc

SCIENCE & ENGINEERING

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## SLICE (Emamectin Benzoate) Testing of Farmed Fish

**S**LICE is a veterinary drug administered via fish feed for the treatment of sea lice in farmed salmon. Health Canada has authorized the SLICE treatment under an Emergency Drug Release protocol and therefore the fish treated are subject to rigorous residue testing.

Health Canada recently amended its policy on permitted SLICE residues after completing a reassessment of available data. The modified Maximum Residue Limit (MRL) of 42 parts per billion (ppb) has been established. In addition, a revised waiting period from the time of treatment to marketing of the fish has been established at 68 days from the last treatment when used at a water temperature of 5 °C or greater. However, fish can be harvested within this waiting period if it can be demonstrated that the residual level of the drug is below 42 ppb.

### Analysis

Analysis of emamectin benzoate residue in fish tissue is carried out using high performance liquid chromatography (HPLC) with fluorescence detection (FLD). Clean up of the samples by solid phase extraction (SPE) and derivatisation of the analyte prior to analysis facilitates reporting limits in the low ppb range.

### Qualifications

RPC's Analytical Services laboratories hold accreditation with the Standard Council of Canada (SCC). The laboratory accreditation program is based on the continued demonstration of performance as evaluated through interlaboratory proficiency testing and laboratory site audits.

RPC's quality system is registered to ISO 9001:2008.

Accreditation of the analytical method for emamectin benzoate in fish tissue will be completed during 2009.

### Reporting

Standard turnaround time of submitted samples is 5 working days upon receipt. Rush sample reporting can be arranged by prior notification when necessary.

### Contact

For more information on this service please contact:

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