



Fisheries
and Oceans

Pêches
et Océans

Fish Health Unit
343 Université Ave.
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Moncton, NB, E1C 9B6

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November 17, 2011

LABORATORY REPORT

TO: Dept. of Fisheries and Oceans
Pacific Biological Station
3190 Hammond Bay Rd.
Nanaimo, BC
V9R 5K6
Attn: Stewart Johnson

CASE # 2011-224
REFERENCE # 2011-227
REGION Pacific
RECEIVED 2011/10/25

SAMPLE DATA

SPECIES Sockeye salmon (*Oncorhynchus nerka*)

DATE COLLECTED unknown

SAMPLE 48
SIZE

AGE smolt

SAMPLE SITE Pacific Biological Station, BC

LENGTH 5 - 7 cm

POPULATION
SIZE N/A

ORIGIN OF STOCK Rivers Inlet, BC

REASON FOR EXAMINATION Response to notification - ISAV

DIAGNOSIS Inconclusive for infectious salmon anaemia virus (ISAV) by quantitative reverse transcriptase polymerase chain reaction method.

REPORT On October 25, 2011 the DFO Molecular Biology Unit at the Gulf Fisheries Centre (GFC) received a total of 48 frozen sockeye salmon carcasses from the DFO Pacific Biological Station to be tested for the infectious salmon anaemia virus (ISAV). The samples were stored at -80°C upon arrival and were subsequently thawed and necropsied on November 04, 2011

The fish had previously been necropsied prior to arrival at GFC, therefore only a small volume of gill tissues remained for collection. There was no heart or kidney tissues available and no backup tissues were available for potential subsequent confirmatory testing by cell culture assay.

Gill tissue samples were extracted from all 48 fish for quantitative reverse transcriptase polymerase chain reaction (qRT-PCR) assay, which was done from November 10-14, 2011 by the DFO Molecular Biology Unit for ISAV.

None of the 48 fish tested showed positive results for ISAV by qRT-PCR (samples tested in duplicate). Although qRT-PCR assay passed the quality assurance test based on the results obtained from positive and negative controls, the reference gene test results indicated compromising RNA degradation on all samples tested, hence the inconclusive result.

**FILE
COMPLETED**

Nellie Gagné - Head
Molecular Biology Unit

Pascal Boudreau - Head
Fish Health Unit

Anne Veniot - Head
Aquatic Animal Health



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REASON FOR EXAMINATION Response to notification - ISAV

DIAGNOSIS Inconclusive for infectious salmon anaemia virus (ISAV) by quantitative reverse transcriptase polymerase chain reaction method.

REPORT On October 25, 2011 the DFO Molecular Biology Unit at the Gulf Fisheries Centre (GFC) received a total of 48 frozen RNA extractions (from kidney tissues) from the DFO Pacific Biological Station to be tested for the infectious salmon anaemia virus (ISAV). The samples were stored at -80°C upon arrival and were subsequently thawed and assayed from October 27 to November 03, 2011.

None of the 48 samples tested showed positive results for ISAV by qRT-PCR (samples tested in duplicate). Although qRT-PCR assay passed the quality assurance test based on the results obtained from positive and negative controls, the reference gene test results indicated compromising RNA degradation on all samples tested, hence the inconclusive result.

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