

## Analysis of FAME & C, N-ISOTOPES in Fish Tissue SAMPLING INSTRUCTIONS

(detail protocol can be provided upon request)

1. All tissue samples should be shipped by overnight courier. Some characteristics of the sampling protocol as well as the sample weight required for analysis are presented in the table below:

<u>Analysis</u>	<u>Sample Size</u>	<u>Preservative &amp; °C</u>	<u>Hold Time</u>
FAME	200-500mg	None, -80 °C	28 days
C, N isotopes	100-200mg	None, 4 °C	14days

2. Each sample for FAME analysis should be processed on the site. The amount of tissue necessary for FAME analysis is placed in a 40ml plastic conical centrifuge tube.
3. Place each sample for isotope analysis into a 40ml plastic conical centrifuge tube.
4. Samples for analysis of FAME must be flushed with N<sub>2</sub>, sealed and stored in a cooler with DRY ICE. Transfer all the samples to a freezer (preferably – 80°C) and keep them there until the shipment (**No longer than 48 hrs**).
5. Store all samples for Isotope analysis in a cooler or sample container.
6. On the sample cooler clearly identify:
  - i. Client name and address
  - ii. Sample site or project ID
  - iii. Sample date and time
7. Fill out Chain of Custody (COC) provided specifying in it
  - a. Client name, address, telephone number and e-mail address
  - b. Sample matrix and sample IDs
  - c. Type of analysis required
  - d. Sampling date and time, other information required in COC
8. **SHIP samples** overnight in a cooler. **!! For FAME analysis, all samples must be shipped in a cooler with DRY ICE (- 80 °C)!!**
9. All samples should arrive at the lab within 48 hours of sampling.

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