

# Instructions

## Salmon Preparation Kit



Prepare your salmon sample for measurement with your iCheck™  
**Carotene** using the **Salmon Preparation Kit**.

To prepare the salmon sample follow these steps:

### 1 Prepare the Dilution Buffer

- Take one of the six Dilution Buffer flasks. Fill the flask to the 50 mL mark with bottled or distilled water. Mix the solution until the powder is completely dissolved.
- Note: Solubilized Dilution Buffer must be stored at room temperature. One flask is sufficient for approx. 20 measurements.

### 2 Weigh in the salmon sample

- To prepare a homogenous sample cut approx. 10 g of salmon flesh into small pieces and mix them. Use a garlic press to further mash the salmon pieces. Mix the mashed flesh again.
- Turn on the balance supplied with your iCheck Carotene. Place a clean Test Tube in the plastic stand and place both on the balance. Now press Z/T. This will zero the weight of the Test Tube and the stand. The display will show "0.0 g".
- Keep the Test Tube and stand on the balance and weigh 1.0 g of the mashed salmon sample into the Test Tube. Note the exact weight for calculation of dilution factor.

### 3 Mix the sample with the Dilution Buffer

- Using a plastic pipette, supplied in the kit, add the solubilized Dilution Buffer to the salmon sample to a final weight of 4.0 g. Note the exact weight.
- Mix the salmon suspension using a small homogenizer starting on low speed. Then slowly adjust the speed to 10 000 rpm and mix for 1 minute.
- Let the suspension stand for 10 minutes.

### 4 Inject and measure the salmon sample

- Inject and measure the salmon suspension following the instructions in the iCheck Carotene User Manual.

### 5 Calculate the final concentration

- Calculate the dilution factor of the salmon suspension by dividing the weight of the suspension by the weight of the salmon flesh: Example:  $4.0 \text{ g} / 1.0 \text{ g} = 4$ .
- Multiply the result displayed by the iCheck Carotene with the dilution factor:  
Example:  $2.5 \text{ mg/L} \times 4 = 10 \text{ mg/L}$ .
- If you have questions contact BioAnalyt Support at [support@bioanalyt.com](mailto:support@bioanalyt.com).

**Note:** Homogenizer can be provided upon request by BioAnalyt.



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