Method Z450M – Potassium K Marine

Specification

Description: Test for determining the content of potassium in marine water
Range: 50 - 500 mg/l
Resolution: 2,5 mg/l
Wavelength: 610 nm

Reagent set

Product Code	Description	List of components
8450	Set of reagents for method Z450M, Potassium K Marine (reagents for approx. 25 tests)	✓ powder Reagent K ✓ spatula ✓ 1 ml syringe

NOTE:
To perform this method measurement it is required to have also deionized water available as a separate product (no 8903/100 ml bottle).

Performing the measurement

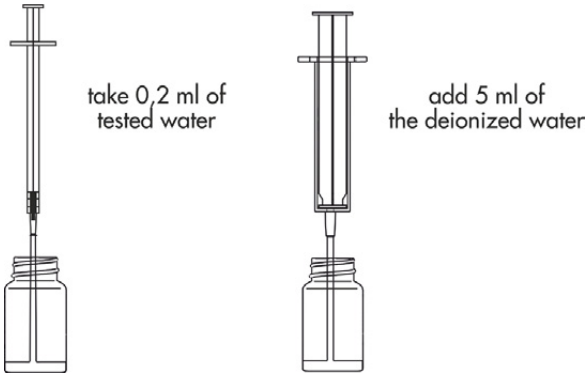
1. Select the Z450M Potassium K Marine method (**Methods → Select method → Z450M Potassium K Marine**). How to select the method, see *8.1 Choosing method*.

   NOTE:
   *It is recommended to use the GUIDE system by pressing the context button **GUIDE** on the photometer. It will provide you with step-by step basic instruction how to perform measurement and a timer with beeper to count down reaction time. To enable this function press the button **GUIDE**.*

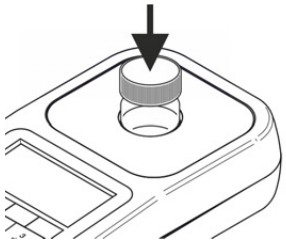
2. Rinse the vial and the syringe three times with the tested water.

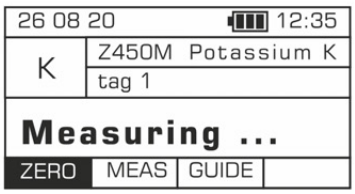
   Take exactly 0,2 ml of the tested water with 1 ml syringe and pour into the vial, then add 5 ml of the deionized water with 5 ml syringe and shake to mix.

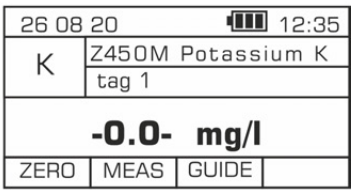
   NOTE:
   Make sure no air bubbles are present in the syringe. Trapped air bubbles can affect accuracy of the measurement.



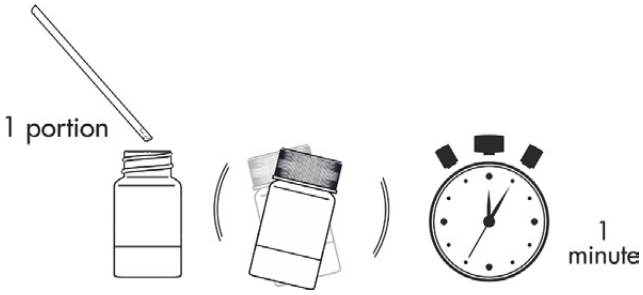
3. Insert the vial into the round vial holder and press the **ZERO** key. The display will show **"-0.0-"**, which means the device is ready for measurement.





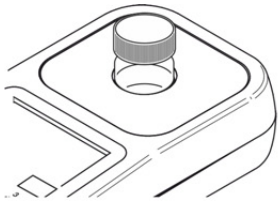


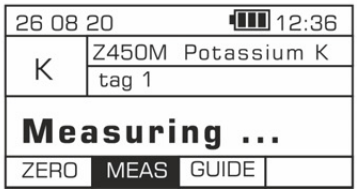
4. Add 1 portion of **powder Reagent K** with the spatula into the vial, replace the cap and mix thoroughly. Before making a measurement wait exactly **1 minute**.

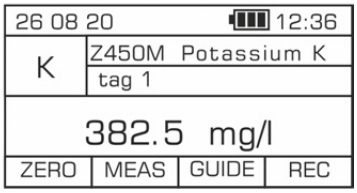


NOTE:
Press the powder in the spatula groove and make sure it is completely filled.

5. After exactly 1 min insert the vial into the round vial holder and press the **MEAS** key to take a measurement. The result - **the concentration of potassium** – is displayed in **mg/l (ppm)**.







Potential interferences

ammonia content	- above 3 ppm	may interfere with the measurement
very high content of:		
calcium (Ca)	- above 4 000 ppm	
magnesium (Mg)	- above 4 000 ppm	
sodium (Na)	- above 8 000 ppm	
chloride	- above 12 000 ppm	
phosphate	- above 50 ppm	may interfere with the measurement