

## Method Z610F - Sulphate SO4 fresh water

# **Specification**

Description: Test for determining the content of sulphate in fresh water

Range: 8 - 200 mg/l
Resolution: 2 mg/l
Wavelength: 470 nm

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#### Reagent set

Product Code

8610

Description

Set of reagents for method Z610F, Sulphate SO<sub>4</sub> fresh water

(reagents for approx. 70 tests)

List of components

✓ Reagent SO<sub>4</sub>-1

- ✓ powder Reagent SO₄-2
- ✓ spatula

### Performing the measurement

Select the Z610F Sulphate SO4 fresh water method (Methods → Select method → Z610F Sulphate SO4 Fresh). How to select the method, see 8.1 Choosing method.

#### NOTE:

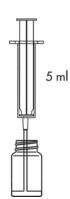
It is recommended to use the GUIDE system by pressing the context button **GUIDE** on the photometer. It will provide you with step-by step basic instruction how to perform measurement and a timer with beeper to count down reaction time. To enable this function press the button **GUIDE**.

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

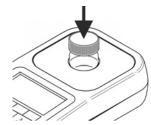
Take exactly 5 ml of the tested water with the syringe and pour into the vial.

#### 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.



26 08 20		<b>IIII</b> 12:35		
SO <sub>4</sub>		Sulpha	te SO4	
	tag 1			
Measuring				
ZERO	MEAS	GUIDE		

	26 08 20		12:35		
	SO <sub>4</sub>		Sulpha	te SO4	
		tag 1			
	-0.0- mg/l				
	ZERO	MEAS	GUIDE		



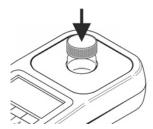
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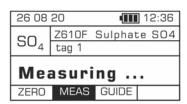
- 4. Add 5 drops of Reagent SO<sub>4</sub>-1 and shake to mix.
- 5. Add 1 portion of powder Reagent SO<sub>4</sub>-2 with the spatula into the vial and mix thoroughly. Before making a measurement wait exactly 1 minute.





6. 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 sulphate - is displayed in mg/l (ppm).





26 08	20	12:36			
	Z610F	Sulphat	e S04		
SO <sub>4</sub>	tag 1				
50.0 mg/l					
ZERO	MEAS	GUIDE	REC		

### Potential interferences

the high content of organic matter may reduce precipitation

the high content of: calcium (Ca) above 20 000 ppm above 10 000 ppm manganese (Mg) chloride above 40 000 ppm

silica may interfere with the measurement above 500 ppm