

Method Z420 - Manganese Mn

Specification

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

Range: 0,05-5 mg/l Resolution: 0,01 mg/l Wavelength: 470 nm Page | 1

Reagent set

Product Code Description

Set of reagents for method Z420, Manganese Mn, fresh water

(reagents for approx. 35 tests)

List of components

- ✓ powder Reagent Mn-1
- ✓ Reagent Mn-2
- ✓ Reagent Mn-3
- ✓ Reagent Mn-4
- ✓ spatula

Performing the measurement

Select the Z420 Manganese method (Methods → Select method → Z420 Manganese Mn).
How to select the method, see 8.1 Choosing method.

NOTE:

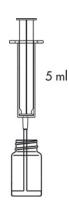
It is recommended to use the GUIDE system by pressing the context button **GUIDE** on the photometer. It will provide you with step-by step basic instruction how to perform measurement and a timer with beeper to count down reaction time. To enable this function press the button **GUIDE**.

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

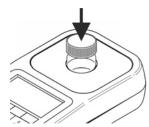
Take exactly 5 ml of the tested water with the syringe and pour into the vial.

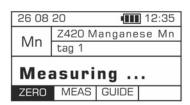
NOTE:

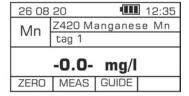
Make sure no air bubbles are present in the syringe. Trapped air bubbles can affect accuracy of the measurement.



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

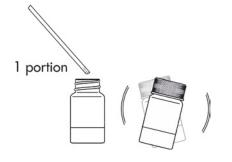






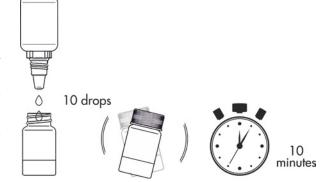


4. Add 1 portion of powder Reagent Mn-1 with the spatula, shake until the powder has dissolved.

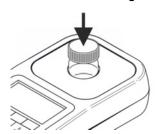


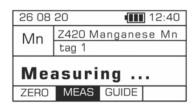
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- 5. Add 10 drops of **Reagent Mn-2** and shake to mix.
- 6. Add 10 drops of Reagent Mn-3 and shake to mix.
- Add 10 drops of **Reagent Mn-4** and shake to mix.
- Before taking a measurement, wait 10 minutes.



9. Insert the vial into round vial holder and press the MEAS key to take a measurement. The result - the concentration of manganese – is displayed in mg/l (ppm).





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Mn	Z420 Manganese Mn		
	tag 1		
1.20 mg/l			
ZERO	MEAS	GUIDE	REC

Potential interferences

phosphate content

- above 20 ppm

may cause falsely low readings