

Zinc

Test kit for the determination on zinc ions
in surface water and sewage**Method:**

Determination of zinc with zincon

Measurement range:0.5–3 mg/L Zn²⁺**Contents of test kit (*refill pack):**

sufficient for 120 tests

16 mL Zn-1*

12 mL Zn-2*

27 mL Zn-3*

2 screw-plug measuring glasses

1 slide comparator

1 colour chart

1 plastic syringe 1 mL

1 instructions for use*

Hazard warning:Information regarding safety can be found on the box' label and in the safety data sheet. You can download the SDS from www.mn-net.com/SDS.**Procedure:****a) colorimetric determination with color chart**

also refer to the pictogram on the back of the color chart

1. Pour a **1 mL** water sample into each of the measuring glasses using the plastic syringe.
Place a measuring glass on position A in the comparator.

Only add the reagent to measuring glass B.

2. Add **2 drops of Zn-1**, seal the glass and mix.
3. Add **2 drops of Zn-2**, seal the glass and mix.
4. Add **5 drops of Zn-3**, seal the glass and mix.
5. Open the glass after **1 min** and place it on position B in the comparator.
6. Slide the comparator until the colours match in the inspection hole on top. Check the measurement reading in the recess on the comparator read. Mid-values can be estimated.
7. After use, rinse out both measuring glasses thoroughly and seal them.

b) photometric determination with photometer PF-12/PF-12^{Plus}

Requisite accessories: reaction tubes 16 mm OD (REF 91680)

Reaction time: 1'00 min

Sample	Blank value
<ol style="list-style-type: none"> 1. Rinse reaction tube 16 mm OD several times with sample and fill with 5 mL sample. 2. Add 5 drops Zn-1, close and mix. 3. Add 5 drops Zn-2, close and mix. 4. Add 10 drops Zn-3, close and mix. 	<ol style="list-style-type: none"> 1. Fill reaction tube 16 mm OD with 5 mL sample.

After use, rinse out both reaction tubes thoroughly and seal them.

Interferences:The following ions will not interfere: ≤ 1000 mg/L Cl⁻; ≤ 500 mg/L Ca²⁺, SO₄²⁻; ≤ 200 mg/L Cr(VI), PO₄³⁻; ≤ 100 mg/L Mg²⁺, Mo(VI); ≤ 10 mg/L Al³⁺, Cu²⁺, Ni²⁺; ≤ 5 mg/L Fe³⁺; ≤ 0,5 mg/L Cd²⁺, Pb²⁺, Mn²⁺; ≤ 0,1 mg/L Cr(III).

The method can be applied also for the analysis of sea water after dilution (1+9).

Disposing of the samples:Information regarding disposal can be found in the safety data sheet. You can download the SDS from www.mn-net.com/SDS.**Storage:**

Store the test kit in a cool (< 25 °C) and dry place.