visocolor®ECO **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 120 tests 16 mL Zn-1* 12 mL Zn-2* 27 mL Zn-3*

2 screw-plug measuring glasses slide comparator

1 colour chart 1 plastic syringe 1 mL 1 instructions for use*

Hazard warning:

Zn-1 contains potassium cyanide 0.1–1 %, Zn-3 contains chloral hydrate $10-20\,\%$.

For further information ask for a safety data sheet.

Procedure:

a) colorimetric determination with color chart

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

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

Blank value

b) photometric determination with photometer PF-12

Requisite accessories: reaction tubes 16 mm OD (REF 916 80)

Rinse reaction tube 16 mm OD several times with sample and fill with 5 mL sample.	Fill reaction tube 16 mm OD 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.	

Reaction time: 1'00 min

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

Interferences:

Sample

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

The method can be applied also for the analysis of sea water after dilution

Disposing of the samples:

The used analysis specimens can be flushed down the drain with tap water and channelled off to the local sewage treatment works.

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