

Contents:

- 1 Aluminium container with 100 test sticks
- 2 Bottles Zinc-1
- 1 Measuring tube with 5 ml mark

Safety precautions:

Zinc-1 contains 32 % sodium hydroxide solution. Causes severe burns. In contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Method of application:

1. Rinse measuring tube with the sample and fill to the 5 ml mark.
2. Add 10 drops Zinc-1 (sodium hydroxide solution) and shake carefully. If turbidities or precipitates are formed, the solution should be filtered prior to the following test.
3. Remove only as many test sticks as are required, and reseal the container immediately after use. Do not touch the test paper zone.
4. Place test stick briefly into the prepared sample solution and after 30 seconds compare test field with the colour scale. If zinc ions are present, the test paper turns red.

The red colour of the unused test paper is normal and does not indicate decomposition of the reagents.

Interferences:

The following ions only interfere in larger concentrations:

> 1000 mg/l Ag^+ , Al^{3+} , Bi^{3+} , Ca^{2+} , Cd^{2+} , Co^{2+} , Fe^{2+} , Fe^{3+} , Mn^{2+} , NH_4^+ , Pb^{2+} , Sn^{2+} , Sn^{4+} , Cl^- , CrO_4^{2-} , NO_2^- , NO_3^- , PO_4^{3-} , SCN^- , SO_3^{2-} , SO_4^{2-} , acetate, ascorbate, citrate, oxalate, tartrate.

The following ions will cause low results:

> 500 mg/l Cr^{3+} , > 200 mg/l CN^- , > 100 mg/l Mg^{2+} , > 50 mg/l S^{2-} , > 25 mg/l Ni^{2+} .

The presence of Cu^{2+} , > 10 mg/l Hg^{+2+} (precipitation with iron or cadmium powder in weakly acidic solution) and > 50 mg/l MnO_4^- (destroy with hydroxylammonium chloride in acidic solution) cause a brown colouration of the test field.

Storage:

Avoid exposing the sticks to sunlight and moisture. Store the kit below + 30 °C in a dry place.