ANTIMONY Test Paper

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for the rapid determination of antimony(III) ions

Color reaction:

In the presence of antimony(III) ions the test paper shows an orange-red spot on yellow background.

Presentation:

Plastic box of 200 strips, measuring 20 x 70 mm each.

Method of application:

Apply a drop of the hydrochloric acid test solution (concentration HCl max. 1 N) on the test paper. Afterwards, submerge the test paper in a solution of 1 N HCl and 6 % H_2O_2 for one second. An orange-red spot or ring appears (in the presence of small quantities of Sb) indicating the presence of antimony. In case of low Sb(III) ion concentration the spot or ring will fade after ten seconds.

The test paper detects trivalent antimony only. In the presence of pentavalent antimony Sb(V) add metallic magnesium to the hydrochloric acid test solution and stir for ten minutes to reduce Sb(V) to Sb(III).

Limit of sensitivity:

5 mg/l Sb(III)

Interferences:

The test paper is specific for the determination of antimony (III) ions. Color reactions resulting from the presence of other metal ions disappear when the paper is submerged in the mixture of HCl and H_2O_2.

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