

BISMUTH Test Paper

for the rapid determination of bismuth

Color reaction:

In the presence of Bi^{3+} , the test paper shows orange-red spots against a pale-yellow background.

Presentation:

Plastic boxes of 200 strips measuring 20 × 70 mm each.

Method of application:

Apply a drop of the hydrochloric acid solution to the test paper. In the presence of Bi^{3+} an orange-red spot appears on the paper, in the case of small quantities of Bi^{3+} an orange-red ring. Since, in the presence of minute quantities of Bi^{3+} , the color reaction is not permanent, the determination is to be made immediately upon application of the test solution to the paper.

Yellow spots do not indicate a positive reaction.

Limit of sensitivity: 60 mg/L Bi^{3+}

Interferences:

A number of metal ions produce a yellow color reaction, which, however, does not interfere with the determination of bismuth.

Ferric ions in substantial amounts produce a clear, black ring next to the reaction spot for Bi^{3+} .

Nitric acid limits the sensitivity of the test paper. The test solution should not contain more than 2 – 3 % HNO_3 .

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