

Nitratesmo

Test Paper for the rapid determination of Nitrate and Nitrite

Color reaction:

The white test paper turns red-orange in the presence of nitrate; lemon-yellow in the presence of nitrite.

Method of application:

a) Detection of Nitrate

Dip test paper briefly into test solution and apply excess liquid to a strip of filter paper. Dip the moistened test paper very briefly into conc. sulfuric acid and spread on a glass plate placed on white paper. In the presence of nitrate only, the paper turns red. If, in addition to nitrate, nitrite is also present (evidenced by yellowish-red color), the interfering nitrite can be destroyed by using amidosulfuric acid.

Limit of sensitivity: 10 mg/L NO_3^-

b) Detection of Nitrite

Dip test paper briefly into test solution and apply excess liquid to a strip of filter paper. Dip the moistened test paper very briefly into 5N hydrochloric acid (17 %) and spread on a glass plate placed on white paper. The presence of nitrite is indicated by a yellow color, which, in the case of minute quantities, appears only after 3–4 minutes.

Limit of sensitivity: 5 mg/L NO_2^-

Note:

For the determination of nitrate or nitrite in concentrations approaching the limit of sensitivity, a control test is recommended. Do not dip test paper strip too frequently into the same sulfuric or hydrochloric acid.

Interferences:

Chlorate, bromate, iodate, hypochlorite, vanadate and iodide interfere with the Nitratesmo reaction.

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