

COBALT Test Paper

for the rapid determination of cobalt

Color reaction:

The white test paper turns blue upon contact with cobalt(II)ions.

Method of application:

Apply a drop of the mineral acid solution ($\text{pH} < 1$) to be tested to the test paper. The presence of substantial quantities of cobalt(II)ions is indicated by the appearance of a blue spot; smaller amounts result in a blue ring.

Limit of sensitivity: 25 mg/L Co^{2+}

Interferences:

Iron and copper interfere.

Ferric-ions in substantial quantities result in the appearance of a reddish-brown spot, which, however, disappears again after a few seconds.

Cupric-ions show up as a brown ring. After 3 to 5 minutes, small amounts of cobalt combined with substantial quantities of copper are detected through the appearance of the blue cobalt ring within the brown copper ring, partly overlapping the latter. In doubtful cases, a drop of pure cupric-solution can be applied next to the test solution.

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Manufacturer: **Macherey-Nagel GmbH & CO. KG** Rev: 2025-03