

QUANTOFIX® Glutaraldehyde

Description:

QUANTOFIX® Glutaraldehyde are test strips for the semi-quantitative analysis of glutaraldehyde ($C_5H_8O_2$) in solutions.

Measuring range:

0.5–2.5 % glutaraldehyde

Color gradation:

0 · 0.5 · 1.0 · 1.5 · 2.0 · 2.5 % glutaraldehyde

Hazard warnings:

This test does not contain hazardous substances that must be labelled.

Pack content:

1 aluminum container with 100 test strips

Reaction principle:

Together with the sodium sulfite in the test field, the glutaraldehyde forms an alkaline addition product that will continue to react with the pH indicator in the test field, creating a color change from orange to violet.

General indications:

Remove only as many test strips as are required. Close the container immediately after removing a strip. Do not touch the test field.

Instructions for use:

1. Insert the test strip into the test solution for 1 second.
2. Shake off excess liquid.
3. Wait 15 seconds.
4. Then, compare the test field immediately with the color scale. Take the value which matches closest with the colored test field (reading accuracy: $\pm \frac{1}{2}$ colored field of the scale).

The reaction color of the test field may change after the value has been taken. It is therefore crucial to evaluate the coloration within the prescribed time scale in order to achieve a correct result.

Quality control:

In order to check that the test strips are functioning correctly, use a glutaraldehyde solution with a concentration of 1 %. To prepare the solution, add 1.8 mL of glutaraldehyde solution (50 % w/w in water) to a 100 mL volumetric flask and then fill with distilled water. Measure immediately using the test strip. If the control solution produces a negative result even after repeating the process, then the remaining unused test strips must be discarded. Even during a negative control (inserting a test strip into distilled water), no red or violet coloration may occur. Possible reasons for incorrect functioning of the test strips may be that the use-by-date has been exceeded, the container has been left open for too long or has been stored incorrectly.

Interferences:

If the sample solution has a pH value of 4–9, the reaction will take place without interferences. The presence of formaldehyde in concentrations of 0.2 % (2000 mg/L) and above will also lead to false positive results (red to violet coloration).

Storage:

Avoid exposing the strips to sunlight and moisture. Keep container cool and dry (storage temperature 4–30 °C).

If correctly stored, the test strips may be used until the use-by-date printed on the packaging.

Additional information:

The test strip container stopper contains a non-toxic drying agent. If swallowed, drink plenty of water.

Disposal:

Information regarding disposal can be found in the safety data sheet. You can download the SDS from www.mn-net.com/SDS.

