

Alcohol Test Strips 50/each Reflectoquant 1 EA *Requires RQflex 2 EMD# 16950-1

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REFLECTOQUANT® Alcohol Test Strips 20-200 ppm (mg/L), 16130

[MSDS Material Safety Data Sheet PDF](#)

Additional Production Information

Method: Reflectometric

Color Reaction: Under the catalytic effect of alcohol dehydrogenase, alcohol is oxidized by NAD to acetaldehyde. In the presence of diaphorase, the NADH formed in the process reduces a tetrazolium salt to a blue formazan, the concentration of which is determined reflectometrically.

Measuring Range: 20-200 ppm

Determinations: 50

Storage Conditions: +2 to +8°C

Shelf Life: 18 months (from day of production)

Note: For in-process control only; not to be used for final measurement for tax class/labeling purposes.

Reflectoquant® Alcohol Test, Catalog No. 16130/1

1. Method

Under the catalytic effect of alcohol dehydrogenase, alcohol is oxidized by NAD to acetaldehyde. In the presence of diaphorase, the NADH formed in the process reduces a tetrazolium salt to a blue formazan, the concentration of which is determined reflectometrically.

2. Measuring Range and Number of Determinations

Measuring Range Number of Determinations

20-200mg/l ethanol 50

3. Applications

Sample Material:

Beverages, e.g. wine, must and beer after appropriate sample pretreatment.

4. Influence of Foreign Substances

The determination is not interfered with by the concentrations of foreign substances usually present in wine and beer.

5. Reagents and Auxiliaries

The analytical test strips are stable at least up to the date stated on the pack when stored in the closed tube at +2 to +8°C.

Package Contents:

Tube containing 50 analytical test strips

Bar code strip

2 bottles of reagent A-1 (each containing 25 tablets)

1 test vessel with stopper

1 graduated 10ml plastic syringe

1 graduated 1ml plastic syringe

Other Reagents and Accessories:

Alcohol standard solution, 4.0g/l, Cat. No. 69009

6. Preparation

It is necessary to correspondingly dilute the sample to be analyzed with distilled water (e.g., 1:100, i.e., 1ml of sample + 99ml of water) prior to the determination (see section 7).

Alcohol Concentration Dilution Factor

g/l Vol.%

20 - 200

2 - 20

0.2 - 2

2.53 - 25.3

0.253 - 2.53

0.0253 - 0.253

1 + 999

1 + 99

1 + 9

1000

100

100

The Reflectoquant® Dilution Set is appropriate for this dilution.

7. Procedure

Observe the instructions for the Reflectometer.

The following applies to the Alcohol test:

Measurement Procedure B.

Stored waiting time: 240 sec.

Stored reaction time: 300 sec.

Reagent A-1 1 tablet Place into the test vessel

Diluted sample

(21 + 5°C) 0.5ml Add using syringe, close the test vessel, and swirl until the tablet is dissolved.

Press the START button of the reflectometer.

After the end of the waiting time:

Distilled Water

(21 + 5°C) 10ml Add using syringe, close the test vessel, and mix.

Press the START button of the reflectometer anew and - this is imperative - at the same time immerse both reaction zones of the analytical test strip in the

measurement sample for approximately 2 seconds.

Allow excess liquid to run off via the long edge of the strip onto absorbent paper towel.

Immediately insert the test strip all the way into the strip adapter with the reaction zones facing the display.

After the end of the reaction time, read off the result from the display in mg/l alcohol.
The result is automatically stored.

Notes on the Measurement:

Concerning the result of the analysis, the dilution (see section 6) must be taken into account.

Results of analysis in g/l = measurement value x dilution factor : 1000

Results of analysis in Vol.% = measurement value x dilution factor x 0.1267 : 1000

Serial Measurements:

After the first measurement, it is possible to run further measurements by pressing the START button. In this case, however, a stopwatch is required since the countdown function of the reflectometer is available only once per series.

Protect the reaction zones from light during the reaction time.

All results are individually shown and automatically stored.

8. Method Control

To check analytical test strips, equipment and procedure:

Make up to 1ml of alcohol standard solution 4.0g/l to 50ml with distilled water and mix. Keep this solution in a tightly closed glass vessel under all conditions!

Alcohol content: 80mg/l.

Analyze the solution as described in section 7.

9. Notes

Reclose the reagent bottle and the tube containing the test strips immediately after use.

Protect the reagent tablets against moisture under all conditions.

At the end of each workday, cleanse the strip adapter thoroughly with water or ethanol.

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- Gallade Part#: 161301
- Mfr Part#: 16130-1
- Brand: EMD Chemicals EM Science
- Container: 1 PK of 50 Strips

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