

QUANTOFIX® Total Sugar

Description

QUANTOFIX® Total Sugar are test strips for semi-quantitative detection of the monosaccharides fructose and glucose. QUANTOFIX® Total Sugar test strips are suitable for reflectometric evaluation with the QUANTOFIX® Relax (REF 91346) as well.

Pack content:

- 1 aluminium container with 100 test strips
- 1 bottle of Fru/Glu-1
- 1 measuring vessel with 10-mL calibration mark
- 2 syringes (1 mL and 10 mL)

Measuring range:

Visual measurement	Reflectometric measurement
55 – 800 mg/L fructose/glucose	55 – 700 mg/L fructose/glucose

Color gradation:

0 · 55 · 100 · 250 · 400 · 600 · 800 mg/L fructose/glucose

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, and protect them from light.

Hazard warnings:

Information regarding safety can be found on the box' label and in the safety data sheet. You can download the SDS from www.mn-net.com/SDS.

Instructions for use:

1. Mix 1 mL of sample with
2. 10 mL of demineralised water.
3. Add 5 drops of Fru/Glu-1.
4. Mix by swirling the reaction vessel.
5. Dip test strip into the prepared test solution for 2 seconds.
6. Shake off excess liquid.
7. After exactly 10 minutes
8. compare the test field with the colour scale.

The reaction colour of the test field may continue to change after elapse of the reaction time. It is therefore important to perform the evaluation at the specified time in order to achieve a correct result.

Interferences:

Determination is not disturbed by the following maximum concentrations of impurities (tested with 0 and 400 mg/L of total sugar solutions / 1:1 mixture of fructose/glucose):

- 2000 mg/L: Na⁺, Mg²⁺, Ca²⁺, NH₄⁺, Cl⁻, SO₄²⁻
- 1000 mg/L: K⁺, Zn²⁺, NO₃⁻, NO₂⁻, H₂PO₄⁻/HPO₄²⁻, SO₃²⁻
- 750 mg/L: Ascorbic acid, Fe³⁺
- 20 mg/L: Cu²⁺

Notes

After addition of the reagent Fru/Glu-1, the pH of the sample solution should be between 7.0 and 8.0.

If the test strips indicate a value of more than 800 mg/L, the sample is to be diluted until the total sugar content is within the measuring range of the test paper. Allow for the dilution factor when stating the content.

Disposal:

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

Storage:

Avoid exposing the strips to sunlight and moisture. Keep container cool and dry (storage temperature 2–8 °C).

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

