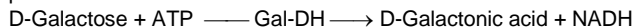


Enzymatic determination of D-Galactose in foodstuff and other sample materials
Test-kit for 32 determinations on the RIDA®CUBE SCAN instrument (340 nm)

For in vitro use only
Store between +2 and +8°C

Principle

Enzymatic test with Galactose Dehydrogenase (Gal-DH). NADH is produced and is measured at 340 nm:



Reagents

- # 1: 32 tubes with approx. 800 µl reagent 1 (buffer)
- # 2: 32 caps with approx. 200 µl reagent 2 (enzymes)
- # 3: one RFID-card (Radio Frequency Identification)

The reagents are stable up to the end of the indicated month of expiry, if stored at 2 - 8 °C. Do not freeze the reagents. Let the reagents reach the laboratory temperature before use (20 - 25 °C).

The general safety rules for working in chemical laboratories should be applied. Do not swallow! Avoid contact with skin and mucous membranes.

This kit may contain hazardous substances. For hazard notes on the contained substances, please refer to the appropriate material safety data sheets (MSDS) for this product, available online on our website (www.r-biopharm.com). After use, the reagents can be disposed of with the laboratory waste. Packaging materials may be recycled.

Sample preparation

- Use clear and transparent samples directly, or after dilution into the relevant measuring range
- Filter or centrifuge turbid solution
- Degas samples containing carbon dioxide
- Clarify samples containing proteins or fat with Carrez clarification
- Crush and homogenize solid samples and extract with water, use Carrez clarification if necessary, filter or centrifuge
- For the ultra-sensitive application (200 µl sample), strongly acidic or alkaline samples should be adjusted to pH approx. 7.5, by adding NaOH / HCl. This step is not necessary for the basic application (20 µl sample).





Assay specifications

The assay specifications are saved on the RFID card and are executed automatically by the instrument.

Wavelength: 340 nm
 Temperature: 37 °C
 Calibration: calibration curve saved on RFID card
 Test sequence: sample + R1 / mix / 2 min / A1 / R2 / mix / 10 min / A2
 Sample volume: 20 µl (Basic) or 200 µl (Ultra-sensitive).
 The required volume should be pipetted precisely into the test tube (reagent 1).

For the ultra-sensitive application, it is also possible to pipette any dilution with 200 µl total volume (for example 50 µl sample and 150 µl water). Results must be recalculated accordingly (in this example, multiply by factor 4).

Handling procedure

Place the RFID-card on the instrument	
Enter sample data into tablet app : - identification - volume (20 or 200 µl)	
Pipette the sample into the test-tube (reagent 1)	
Close the tube with the cap (reagent 2), insert into the instrument and close the door	

Test performance

Measuring range

The results are given in mg/l by the instrument, and following ranges are recommended:

- from 50 to 2250 mg/l for the basic application (20 µl)
- from 5 to 225 mg/l for the ultra-sensitive application (200 µl)

Notes

Use a quality control every day when a run is performed. If the deviation of this quality control is higher than 10%, it is recommended to measure the reagent blank with a water sample, and to subtract it from all future sample results.

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