



GALACTOSE

DETERMINATION OF GALACTOSE IN WHOLE BLOOD OR URINE

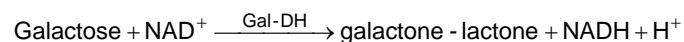
- Enzymatic Method
- Instrument Application Sheets Available
- Use Whole Blood or Urine
- Incl. Galactose Control
- Also for automated procedures
- Wavelength 340 nm



Products	Product no.	Quantity
Galactose Reagent Set	2935	35 - 450 tests
Perchloric Acid 0.33 mol/l Deproteinization Reagent	2934	1 x 100 ml

SUMMARY

ASSAY PRINCIPLE



METHOD WHOLE BLOOD

SAMPLE MATERIAL

Whole Blood

SAMPLE PREPARATION

The Whole Blood Patient Sample must be deproteinized immediately.
Pipette into a centrifuge tube:
Perchloric Acid 0.33 mol/l, Deproteinization Reagent (2934)
Whole Blood
Mix, centrifuge and use 200 µl of supernatant for the macro determination.
(The supernatant can be stored for up to 3 days at 2-6 °C).

Quantity:
1000 µl
200 µl

EXPECTED VALUES

Expected Values in fasting whole blood:
Up to 240 µmol/l Galactose.

GALACTOSE INTAKE TOLERANCE TEST

90-Minute values in whole blood after oral consumption of 40 gram galactose which is solved in 250 ml water or tea. Then take a sample of 200 µl whole blood from the patient and mix with 1000 µl Perchloric Acid 0.33 mol/l, (see sample preparation method whole blood).

In the absence of hepatic pathology, the upper limit for galactose is 1.39 mmol/l.

METHOD URINE

SAMPLE MATERIAL

Urine

SAMPLE PREPARATION

Dilute the Urine with distilled or deionized water as indicated below. Filter turbid dilutions.
Use 200 µl diluted urine for the macro determination.

Estimated galactose concentration in mmol/l	Dilution (ml)	Dilution factor F
< 2.78	-	1
2.78 - 27.75	1 + 9	10
27.75 - 277.53	1 + 99	100
> 277.53	0.1 + 99.9	1000



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EXPECTED VALUES

Expected Values in Urine of neonates: < 3.3 mmol (24 hours urine) Galactose.

Expected Values in Urine of older children and/or adults: < 0.2 mmol/l Galactose.

QUALITY CONTROL

Products

Galactose Control Concentration 1.39 mmol/l (assayed)

Product no.

2939

Quantity

1 x 5 ml

NOTES

1. For in vitro diagnostic use only.
2. For professional use only.
3. Always contact INstruChemie for the complete product insert and latest edition.
4. Printed in the Netherlands, Galactose-summary-280729-1.FEN