



GLUCOSE (start reagent method)

DETERMINATION OF GLUCOSE IN WHOLE BLOOD, PLASMA OR SERUM

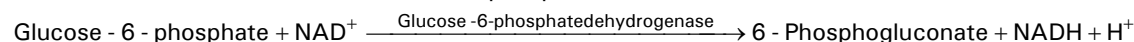
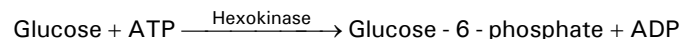
- Hexokinase Method
- Instrument Application Sheets Available
- Use Whole Blood, Plasma or Serum
- Startreagent or Monoreagent Procedure
- Also available Glucose Pretreatment Reagent
For capillair blood method, reference procedure
- Wavelength 340, 334, 365 nm



Products	Product no.	Quantity
Glucose Reagent	2319	6 x 100 ml
Glucose Startreagent	2942	10 x 20 ml
Glucose Pretreatment Reagent	2321	1 x 1000 ml

SUMMARY

PRINCIPLE



The rate of NADH formation is monitored and the increase in absorbance at 340 nm or 365 nm is directly proportional to the concentration of glucose in the sample.

SAMPLE MATERIAL

Diluted plasma prepared from capillar or whole blood collected in Glucose Pretreatment Reagent (2321) is the specimen of choice. Other plasmas or serum may be used if they are separated properly from the cells and assayed within 24 hours. Blood samples collected in Glucose Pretreatment Reagent (2321) are stable at 2-6 °C during at least 24 hours.

CAPILLAR BLOOD METHOD

Collect 50 µl capillar blood through a glass capillar and pipette into 2000 µl Glucose Pretreatment Reagent (2321). Mix well and centrifuge during 2 minutes at ca. 3500 r.p.m.

The supernatant is used for the glucose determination. Dilute a standard glucose solution (per example 5.0 mmol/l) with Glucose Pretreatment Reagent in the ratio 1 + 40.

Pipette in test tubes:	test	standard	blank
Glucose Reagent (2319)	1000 µl	1000 µl	1000 µl
Distilled or deionized water	-	-	200 µl
Diluted standard solution	-	200 µl	-
Supernatant	200 µl	-	-
Mix and incubate for 60 seconds at the reaction temperature and read the absorbance (OD1) against the blank.			
Glucose Startreagent (2942)	200 µl	200 µl	200 µl
Mix and incubate for 2 minutes. Read OD2 against the blank.			

SERUM, PLASMA METHOD

Pipette in test tubes:	test	standard	blank
Glucose Reagent (2319)	1000 µl	1000 µl	1000 µl
Distilled or deionized water	-	-	10 µl
(Undiluted) standard solution	-	10 µl	-
Serum, plasma	10 µl	-	-
Mix and incubate for 60 seconds at the reaction temperature and read the absorbance (OD1) against the blank.			
Glucose Startreagent (2942)	200 µl	200 µl	200 µl
Mix and incubate for 2 minutes. Read OD2 against the blank.			



LINEARITY

Up to 50 mmol/l for the capillar blood method.

Up to 30 mmol/l for the serum, plasma method.

QUALITY CONTROL

Pooled serum of known concentration or commercially available control material with established values are recommended for control of precision and accuracy.

Products

Serodos (human)(assayed)

Serodos plus (human) (assayed)

Product no.

13951

13151

Quantity

6 x 5 ml

6 x 5 ml

EXPECTED VALUES

Whole/capillar blood : 3.6 - 5.3 mmol/l

Serum, plasma : 3.9 - 5.8 mmol/l

NOTES

1. For in vitro diagnostic use only.
2. For professional use only.
3. Always contact INstru**chemie** for the complete product insert and latest edition.
4. Printed in the Netherlands, Glucose-summary-280725-1.FEN