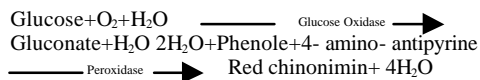


# GLUCOSE

## ENZYMATIC COLORIMETRIC TEST (GOD-PAP)

### Principle:

Enzymatic colourtest on Basis of Trinder-Reaction:



### Reagent Concentration:

Buffer:

Phosphate buffer, pH 7.5      150 mmol/l  
Phenol      7.5 mmol/l

Enzyme reagent:

GOD      12000U/l  
POD      660U/l  
4-amino antipyrine      0.40mmol/l

Standard:

Glucose      100 mg/dl (5.55mmol/l)

### Preparation and Stability

Dilute contents of enzyme reagent /R2 with the corresponding volume of buffer /R1.

This working reagent is stable:

4 weeks at +20 to +25 °C or 3 months at 2 to 8 °C.

### Samples:

Serum, heparinised plasma.

### Procedure:

Wavelength: Hg 546nm (492-550nm)  
Temperature: +25°C/ +30°C/ +37°C  
Cuvette: 1cm light path  
Zero adjustment: Reagent blank  
Each series needs one reagent blank only

	Blank	Standard	Sample
Reagent/R1	1000µl	1000µl	1000µl
Standard/R4	---	10µl	---
Serum or Plasma	---	---	10µl

Mix. Measure after incubating at +37°C for 15 minutes or 30 minutes at +25°C.

Within 60 minutes read absorbance of sample against reagent blank.

### Calculation:

By Standard:

? A sample  
----- x standard conc. = Glucose conc.  
? A standard

Standard concentration: 100mg/dl or 5.55mmol/l

### Linearity:

The method is linear up to 400mg/l.

In case of higher results, dilute sample 1:2 with saline solution and repeat test. Multiply results by 2.

### Normal Values:

Serum, Plasma      75-115mg/dl (4.1-6.4mmol/l)  
Spinal Fluid      50-70mg/dl (2.8-3.9mmol/l)

### Notes:

Do not interfere: Haemoglobine (4g/l), Bilirubin (200mg/l), Creatinine (100mg/l), Galactose (1g/l), EDTA (2g/l).

### Quality Control:

For accuracy and reproducibility control:-

Assayed Multi-Sera Normal and Elevated.

For reproducibility control:-

Multi-Sera Loaw, Normal and Elevated.

### Presentation:

#GLU4580, 1 x 250ml, 250 tests

Buffer      1 x 250ml

Enzyme reagent      for 1 x 250ml

Standard      1 x 5ml

### Safety precautions:

For in vitro diagnostic use only. Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents.

Health and Safety data sheets are available on request.

### Literature:

Trinder, P. ann. Clin. Biochem. 6, 24 (1969)

Pileggi, R. and Barthelmai, W. kli. Wochenschr. 40, 585-589 (1962).

GLU4580.V1  
19/12/02