CORALYZER
System Pack

Glucose Kit

(GOD / POD Method)

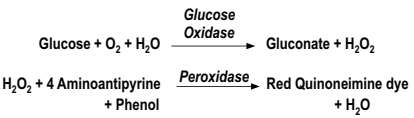
For the determination of Glucose in serum or plasma.
(For Invitro Diagnostic Use Only)

Summary

Glucose is the major carbohydrate present in blood. Its oxidation in the cells is the source of energy for the body. Increased levels of glucose are found in diabetes mellitus, hyperparathryroidism, pancreatitis, renal failure. Decreased levels are found in Insulinoma, hypothyroidism, hypopituitarism and extensive liver disease.

Principle

Glucose is oxidised to gluconic acid and hydrogen peroxide in the presence of glucose oxidase. Hydrogen peroxide further reacts with phenol and 4 - aminoantipyrine by the catalytic action of peroxidase to form a red coloured quinoneimine dye complex. Intensity of the colour formed is directly proportional to the amount of glucose present in the sample.



Normal reference values

Serum / Plasma	Fasting	:	70-110 mg/dl
	2 hrs. P.P.	:	upto 150 mg/dl

It is recommended that each laboratory establish its own normal range representing its patient population.

Contents

Coralyzer 100 System Pack	**90 ml**	**180 ml**	**270 ml**
L1 : Glucose Reagent	3 x 30 ml	6 x 30 ml	9 x 30 ml

Coralyzer 200 System Pack	**80 ml**	**240 ml**
L1 : Glucose Reagent	2 x 40 ml	6 x 40 ml

Storage / stability

Contents are stable at 2 - 8^{0}C till the expiry mentioned on the labels.

Upon storage the Glucose reagent may develop a slight pink colour. This does not affect the performance of the test.

Reagent preparation

Reagents are ready to use.

Sample material

Serum or plasma. Glucose is reported to be stable in the sample for 7 days when stored at 2 - 8^{0}C.

Calibration

Calibrator is recommended for calibration of this assay.

Linearity

This procedure is linear upto 500 mg/dl.

Note

To avoid glycolysis the serum should be separated from the clot as soon as possible, and plasma should be collected in an EDTA + fluoride bulb (0.5mg + 1mg per ml of blood).

References

Trinder, P., (1969) Ann. Clin. Biochem. 6 : 24

Programming on	CORALYZER 100/200
Item	GLUCOSE
Full Name	GLUCOSE
Test Method	End Point
Base Information	
Unit	mg/dl
Filter	510 nm
Sub. Filter	670 nm
Decimal	xx.xx
High pollute	No
Reagent Blank	
Blank Medium	Reagent
Blank Value	0
Blank Low	0
Blank High	0.25
Sample	
Sample Volume	3
Dilution Times	1
Range Setup	
Reagent	
Rgt. 1 Volume	300
Rgt. 2 Volume	0
Linearity	500
Read data for check	
Assistant Start	NONE
Assistant End	NONE
Range Low	0
Range High	2
Test Point Start	32
Test Point End	33
Standard	
Number of standard	1
Factor	1
Correct Factor	1
Standard Cup	User Defined
Conc.	See Calibrator

Manufactured by :
Coral Clinical Systems
A Division of Tulip Diagnostics (P) Ltd.
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