

**Glucose (GLU) Test Kit
(GOD-PAP)**

【NAME】

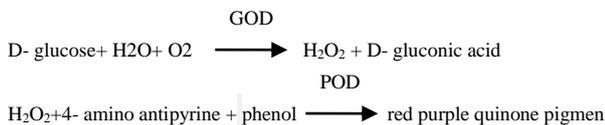
Glucose (GLU) Test Kit (GOD-PAP)

【INTEND USE】

The reagent is intended for the in vitro quantitative determination of Glucose (GLU) in human serum, plasma. Abnormal blood sugar: in 1 ~ 2 hours after the meal; after the intake of high-sugar foods or emotional tension on the kidney, endocrine gland dysfunction, increased intracranial pressure, dehydration, such as vomiting, diarrhea and high fever; anesthesia, infectious diseases, convulsions, pancreatitis, pancreatic cancer cases also can appear the high blood sugar, in hunger and strenuous exercise. against the hormone secretion of insulin severe liver disease.

【METHODOLOGY】

Glucose to generate hydrogen peroxide (H₂O₂) under the glucose oxidase (GOD).Using the Trinder reaction system, the peroxidase (POD) as catalyst, hydrogen peroxide and 4- amino antipyrine, 3,5- two chloro -2- hydroxy benzene sulfonic acid sodium salt (DHBS) reaction, produce red purple quinone pigments.The color of the reaction solution is proportional to the glucose concentration.



【STABILITY AND STORAGE】

Unopened, avoid light preservation in 2 ~ 8 °C, valid for 12 months;
Opened, avoid light preservation in 2 ~ 8 °C, valid for 1 month.
Reagent is not allowed frozen.

【SPECIMEN COLLECTION AND HANDLING】

It is best to fresh serum or heparin plasma.
Stability of sample: 2 ~ 8 °C can be stabilized for 24 days.

【APPLICABLE INSTRUMENT】

Fully automatic biochemical analyzer.

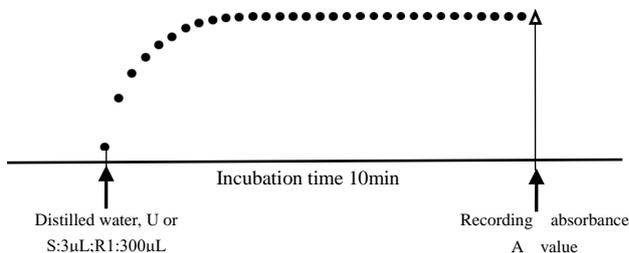
【TESTING SPECIFICATION】

The following system parameters are recommended. Individual instrument applications are available upon request from the Technical Support Group

| | |
|------------------------|-----------------------------|
| Temperature | 37° C |
| Cuvette light path | 1.0cm |
| Primary Wavelength | 505 nm |
| Secondary Wavelength | 600nm |
| Assay Type | One Point End |
| Direction | Increase |
| Sample : Reagent Ratio | 1:100 |
| eg : Sample Vol | 3 μL |
| Reagent1 Vol | 300 μL |
| Linearity | 0~22.2mmol/L |
| Testing | Deducting the reagent blank |

【OPERATION STEPS】

R:Reagent S:Calibrator U:Sample



【CALCULATION】

Use The Calibrator

$$\text{GLU sample concentration} = \frac{\text{Sample} \Delta A}{\text{Calibrator} \Delta A} \times \text{Calibrator concentration}$$

【REFERENCE RANGE】

3.89~6.4mmol/L

By clinical trials, choose no less than 100 newborn or adults blood specimens, tested by automatic biochemical analyzer, and then processing the testing value with statistical method, calculating out the reference range.

【THE LIMITATION OF TEST RESULTS】

Glucose (GLU) testing is just one of the standard that clinician diagnose the patient. Clinical physicians should according to patients' bodies, history and other diagnostic program, to get comprehensive judgment.

【THE INTERPRETATION OF TEST RESULTS】

Human error, the processing of specimen, analysis instrument deviation, etc. all can affect the measurement result; When one sample deviates from the expected value too far, need to be tested again.

【PERFORMANCE INDEX】

- 1.Reagent blank absorbance≤0.4, (505nm, 1cm optical path).
- 2.Precision: repeatability CV≤5%;batch variations R≤8%.
- 3.Accuracy: relative deviation ≤10%.
- 4.Linearity range:0~22.2mmol/L, r≥0.990.
- 5.Stability: All package reagent, unopened and avoid light, preservation in 2~8 °C, stable 12 months, once opened, avoid light, preservation in 2~8 °C,stable 30 days.

【ATTENTION】

- 1.Reagent contains sodium azide (toxic) preservatives, avoid contact with skin and mucous membrane.If necessary preventive measures should be taken use of reagents, reagent contact with skin and mucous membrane, please rinse with water, please go to a doctor if necessary.
- 2.The maximum linearity is 22.2 mmol/L.If testing results is upper limit,dilute with 0.9% sodium chloride solution before test, results multiplied by the dilution ratio.
- 3.Liquid waste disposal: Suggest follow local regulations
- 4.Different batches reagents cannot mix, when replacing reagents batch number, please calibration again.