

This package insert must be read carefully prior to use.

Glucose assay kit  
(Classification No.: 30167002)

## Pureauto S GLU-R

### Warning

Measured blood glucose levels may be higher than the actual values in patients with pralidoxime methyl iodide treatment. Therefore, obtain information from the manufacturing authorization holder of pralidoxime methyl iodide concerning its influence on measurement of blood glucose in such patients.

(Measured blood glucose levels may be higher than the actual values in patients with pralidoxime methyl iodide treatment. If hypoglycemic drugs such as insulin are administered on the basis of false high values, serious symptoms of hypoglycemia such as coma may occur.)

### General Precautions

1. This product is for in vitro diagnostic use, and must not be used for any other purposes.
2. Clinicians should make a comprehensive clinical decision based on assay results in conjunction with clinical symptoms and other examination results.
- \* 3. For the effects of an administered drug on the measured value, carefully read the Precautions for Use in the package insert of the drug, especially the section about the effects on laboratory test results. Please also read carefully the “2. Interfering Substances,” in the “Procedural Precautions” section, as well as “2. Precautions for Assessment” in the “Assessment of Assay Results” section, of this package insert.
4. This product should be used only as directed in this package insert. Reliability of results cannot be guaranteed if there are any deviations from the instructions in this package insert.
5. If the reagent accidentally comes in contact with eyes and/or mouth, rinse immediately with ample water as first aid, and consult the doctor if required.
6. Carefully read the operating instructions for each type of automated analyzers prior to using this product. Parameters for each type of analyzers are available, and can be requested from SEKISUI MEDICAL CO., LTD. if required.
7. Perform a quality control test prior to assay to ensure accuracy.

### \* Description (Kit Components)

Component: Ingredients

GLU-R Enzyme Solution 1:

Glucose-6-phosphate  
dehydrogenase

GLU-R Enzyme Solution 2:

Hexokinase (yeast origin)  
Nicotinamide adenine  
dinucleotide (oxidized form)

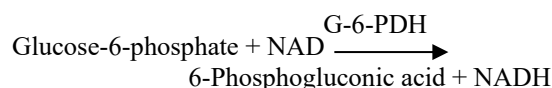
### Intended Use

Measurement of glucose in serum, plasma or urine.

### Assay Principle

#### 1. Assay Principle

Glucose is converted to glucose-6-phosphate by the action of hexokinase (HK) in the presence of ATP. Glucose-6-phosphate is converted to 6-phosphogluconic acid by the action of glucose-6-phosphate dehydrogenase (G-6-PDH). At the same time, NAD is converted to NADH, and the absorbance at 340 nm increases. The glucose level is determined by measuring the change in the absorbance of NADH.



#### 2. Features

- 1) Liquid reagents, ready-to-use.
- 2) Because this product has the wide measurement range, even urine samples can be measured without dilution.
- 3) Analytical results are hardly affected by interfering substance, because the rate method is used.
- 4) This product shows a high sensitivity and reproducibility.

### Procedural Precautions

#### 1. Properties of Samples and Sampling Methods

##### 1) Samples

Serum, plasma and urine may be used.

##### 2) Storage of samples<sup>1)</sup>

The glucose level in whole blood decreases over time. Separate cells from the sample immediately after collection of a blood sample. When serum or plasma samples must be stored after separation, store them at 2–10°C or at -20°C or lower.

Bring samples to room temperature (15–30°C) before use.

Urine samples should be tested on the same day.

#### 2. Interfering substances

Assay results are not affected by free bilirubin (up to 50 mg/dL), conjugated bilirubin (up to 50 mg/dL), hemoglobin (up to 500 mg/dL), or ascorbic acid (50 mg/dL).

#### 3. Others

- \* 1) Always use Serum Multicalibrator (SEKISUI) or Anaserum GLU standard solution for calibration.
- 2) Precautions for assay range  
If the concentration of sample exceeds assay range, dilute the sample with saline and repeat the measurement.



## Packaging

Name		Package
Pureauto S GLU-R	(1)	GLU-R Enzyme Solution 1 2 × 400 mL
	(2)	GLU-R Enzyme Solution 2 2 × 200 mL

Constituent reagents are available in other configurations. For further details please contact SEKISUI MEDICAL CO., LTD.

## References

- 1) Sasaki M. et al.: Sampling of constituents of the human body, Tokyo: Kodansha. 1972. Japanese.
- \* 2) Kanai M. (supervising editor): Kanai's manual of clinical laboratory medicine. 35th ed. Tokyo: Kanehara Shuppan. 2020. Japanese.
- 3) Mieling G. E., et al.: Clin. Chem, 25, 1581, 1979.
- 4) Koda K.: Med Tech, 10, 143, 1982. Japanese.
- 5) Nishiyama H. et al.: J Med Pharm Sci, 42(4), 647, 1999. Japanese.
- 6) SEKISUI MEDICAL CO., LTD. In house data. Japanese.

## Contact

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## Manufacturer

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