

## Phosphoglucose Isomerase (PGI) Activity Assay Kit

**Cat. No.** KITZ-038    **Lot. No.** (See product label)

### SPECIFICATION

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>                    | Phosphoglucose isomerase catalyzes the conversion of fructose-6-phosphate to glucose-6-phosphate, which is then further converted to 6-phosphoglucono- $\delta$ -lactone under the action of glucose-6-phosphate dehydrogenase, simultaneously converting NADP to NADPH. NADPH has a characteristic absorption peak at 340 nm, and the rate of change in absorbance can be used to characterize the activity of phosphoglucose isomerase. |
| <b>Size</b>                                | 50T/48S                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>                             | Store at -20 °C                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Shipping</b>                            | Ice pack                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Kit Components</b>                      | Extract solution: 60 mL $\times$ 1 bottle, store at 4°C.<br>Reagent I: 60 mL $\times$ 1 bottle, store at 4°C.<br>Reagent II: Powder $\times$ 1 bottle, store at -20°C.<br>Reagent III: Liquid $\times$ 1 vial, store at -20°C.                                                                                                                                                                                                            |
| <b>Materials Required but Not Supplied</b> | UV spectrophotometer, 1 mL quartz cuvettes (10 mm path length), mortar/homogenizer, adjustable pipettes, benchtop centrifuge, thermostatic water bath/incubator, and distilled water.                                                                                                                                                                                                                                                     |

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