



Creative Enzymes

Diagnostic Enzymes

High Purity Phosphoglucose Isomerase

Product Information

Cat#	DIA-542
Source	Escherichia coli
Description	High purity phosphoglucose isomerase from Escherichia coli for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
Form	Suspension
CAS No.	9001-41-6
Activity	~ 550 U/mg of protein (25 °C, pH 7.6 on fructose 6-phosphate) ~ 649 U/mg of protein (40 °C, pH 7.6 on fructose 6-phosphate)
Unit Definition	One unit of phosphoglucose isomerase activity is the amount of enzyme required to convert one μ mole of D-fructose 6-phosphate to D-glucose 6-phosphate per min at pH 7.6.
Storage	2–8 °C
Synonyms	Glucose-6-phosphate isomerase; D-glucose-6-phosphate aldose-ketose-isomerase
Enzyme Commission Number	EC 5.3.1.9
Stability	> 1 year under recommended storage conditions
Optimum temperature	40 °C
Buffer	3.2 M ammonium sulphate
Applications	Applications for the measurement of D-fructose in carbohydrate research and in the food and feeds, fermentation, wine, beverage and dairy industries.
Molecular Weight	62600 Da
Concentration	10 KU: ~ 1,000 U/mL 50 KU: ~ 10,000 U/mL

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Package 10/50 KU

Specificity Catalyses the reaction: D-Glucose 6-phosphate = D-fructose 6-phosphate.

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