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Certificate of Analysis

Product: Phosphoglucose isomerase (*Eschericha coli*)
Cat. No: E-PGIEC-50KU
Lot. No: 241158
Expiry Date: 2028-12-31

Specific activity and level of other activities:

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)
One Unit of phosphoglucose isomerase (PGI) is defined as the amount of enzyme required to produce one µmole of NADH from NAD+ under the following assay conditions:
Tris.HCl buffer 89 mM, $MgCl_2$ 4.5 mM, BSA 0.44 mg/mL, NAD^+ 0.52 mM, D-Fructose 6-phosphate 1.5 mM, Glucose 6-phosphate dehydrogenase 2.3 U/mL.

Other Activities (as a percentage of PGI activity; pH 7.6, 40°C):

Enzyme Measured	Substrate	Activity, %
PGI	D-fructose 6-phosphate	100
α-Glucosidase	*p*-Nitrophenyl α-D-glucose	< 0.00001
β-Glucosidase	*p*-Nitrophenyl β-D-glucose	< 0.00001
Glucose 6-Phosphate Dehydrogenase	D-glucose 6-phosphate	< 0.0002
Hexokinase	D-glucose	< 0.0001
Phosphomannose Isomerase	D-mannose 6-phosphate	< 0.003
NADH oxidase	NADH	< 0.0003

This lot meets our specification.

Signature: Ciara McLoughlin **Date:** 2024-11-21

Ciara McLoughlin

Quality Manager

(*as this certificate is a computer printout, it has not been signed or dated by hand*)

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