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Certificate of Analysis

Product: Phosphomannose isomerase (*Escherichia coli*)
Cat. No: E-PMIEC
Lot. No: 241247
Expiry Date: 2028-12-31

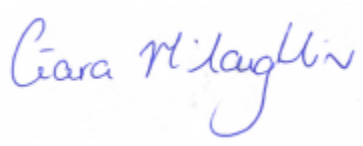
Specific activity and level of other activities:

100 U/mg protein (on mannose 6-phosphate) at pH 7.6 and 25°C
One Unit of phosphomannose isomerase activity is defined as the amount of enzyme required to release one µmole of fructose 6-phosphate per minute from mannose 6-phosphate (3.14 mM) in the presence of NAD+ in Tris.HCl buffer (88 mM), pH 7.6 and 25°C.

Substrate	%
Mannose 6-phosphate	100
Fructose 6-phosphate	0.02
Glucose	0.02
Glucose 6-phosphate	< 0.0001

All activities were measured at 25°C in 88 mM Tris.HCl buffer (pH 7.6) containing 4.4 mM $MgCl_2$.

This lot meets our specification.

Signature:  **Date:** 2024-12-19

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

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