

Native Porcine Mutarotase

Cat. No. NATE-0465

Lot. No. (See product label)

Introduction

Description In enzymology, an aldose 1-epimerase (EC 5.1.3.3) is an enzyme that catalyzes the

chemical reaction:alpha-D-glucose↔ beta-D-glucose. Hence, this enzyme has one substrate, alpha-D-glucose, and one product, beta-D-glucose. This enzyme belongs to the family of isomerases, specifically those racemases and epimerases acting on

carbohydrates and derivatives. This enzyme participates in glycolysis and

gluconeogenesis.

Applications Clinical Chemistry

Synonyms mutarotase; galactose mutarotase; galactose 1-epimerase; D-

galactose 1-epimerase; aldose 1-epimerase; EC 5.1.3.3

Product Information

Species Porcine

Source Porcine kidney

Form A suspension in 80% saturated ammonium sulphate solution, pH 8.0

EC Number EC 5.1.3.3

CAS No. 9031-76-9

Unit Definition The amount of enzyme causing an increase in the rate of spontaneous

mutarotation of D-glucose of one micromole per minute at 25°C and pH 7.4. One unit as described above is equivelent to approximately 0.04 units in a glucose dehydrogenase coupled assay at 25°C and pH 7.2 or approximately 0.0035 units in

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a GO/HRP coupled assay at 37°C and pH 7.2.

Storage and Shipping Information

Storage 4°C

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