Creative Enzymes®

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

Storage and Shipping Information

Storage	4°C