

Native Galactose-adapted yeast Uridine-5'-diphosphogalactose **4-epimerase**

Cat. No. NATE-0275 Lot. No. (See product label)

Introduction

- Description The enzyme UDP-glucose 4-epimerase (EC 5.1.3.2), also known as UDP-galactose 4-epimerase or GALE, is a homodimeric epimerase found in bacterial, fungal, plant, and mammalian cells. This enzyme performs the final step in the Leloir pathway of galactose metabolism, catalyzing the reversible conversion of UDPgalactose to UDP-glucose. GALE tightly binds nicotinamide adenine dinucleotide (NAD+), a co-factor required for catalytic activity.
- Synonyms UDP-galactose 4-epimerase; uridine diphosphoglucose epimerase; galactowaldenase; UDPG-4-epimerase; uridine diphosphate galactose 4-epimerase; uridine diphospho-galactose-4-epimerase; UDP-glucose epimerase; UDP-galactose 4-epimerase; 4-epimerase; UDPG-4-epimerase; uridine diphosphoglucose 4epimerase; uridine diphosphate glucose 4-epimerase; UDP-D-galactose 4-epimerase; EC 5.1.3.2; UDPglucose 4-epimerase; GALE

Product Information

Source	Galactose-adapted yeast
Form	Lyophilized powder containing approx. 40% buffer salts
EC Number	EC 5.1.3.2
CAS No.	9032-89-7
Activity	10-20 units/mg protein (modified Warburg-Christian)
Unit Definition	One unit will convert 1.0 μ mole UDP-galactose to Udp-glucose per min at pH 8.8 at 25°C. Contains approx. 0.4% galactokinase, and <0.2% UDPG-pyrophosphorylase, UDPG dehydrogenase and galactose-1-phosphate uridyl transferase.
Usage and Packaging	

Package vial

Storage and Shipping Information

-20°C Storage