Creative Enzymes®

Native Porcine Glutamic-Oxalacetic Transaminase

Cat. No. NATE-0312

Lot. No. (See product label)

Introduction

Description	Aspartate transaminase (AST) or aspartate aminotransferase, also known as AspAT/ASAT/AAT or serum glutamic oxaloacetic transaminase (SGOT), is a pyridoxal phosphate (PLP)-dependent transaminase enzyme (EC 2.6.1.1). AST catalyzes the reversible transfer of an α-amino group between aspartate and glutamate and, as such, is an important enzyme in amino acid metabolism. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells. Serum AST level, serum ALT (alanine transaminase) level, and their ratio (AST/ALT ratio) are commonly measured clinically as biomarkers for liver health. The tests are part of blood panels.
Synonyms	EC 2.6.1.1; glutamic-oxaloacetic transaminase; glutamic-aspartic transaminase; transaminase A; AAT; AspT; 2-oxoglutaRate-glutamate aminotransferase; aspartate α-ketoglutaRate transaminase; aspartate aminotransferase; aspartate-2-oxoglutaRate transaminase; aspartic acid aminotransferase; aspartic aminotransferase; aspartyl aminotransferase; AST; glutamate-oxalacetate aminotransferase; glutamate-oxalate transaminase; glutamic-aspartic aminotransferase; glutamic-oxalacetic transaminase; glutamic oxalic transaminase; GOT (enzyme); L-aspartate transaminase; L-aspartate-α-ketoglutaRate transaminase; L-aspartate-2-ketoglutaRate aminotransferase; L-aspartate-2-oxoglutaRate aminotransferase; L-aspartate-2-oxoglutaRate-transaminase; L-aspartic aminotransferase; oxaloacetate-aspartate aminotransferase; oxaloacetate transferase; aspartate:2-oxoglutaRate aminotransferase; glutamate oxaloacetate transaminase; 9000-97-9

Product Information

Species	Porcine
Source	Porcine heart
Form	ammonium sulfate suspension; Suspension in 3.0 M (NH4)2SO4 containing 0.05 M maleate and 2.5 mM α-ketoglutarate, pH 6.0
EC Number	EC 2.6.1.1
CAS No.	9000-97-9
Activity	200-500 units/mg protein
Unit Definition	One unit will convert 1.0 µmole of α-ketoglutarate to L-glutamate per min at pH 7.5 at 37°C, in the presence of L-aspartic acid.

Storage and Shipping Information

Storage	2-8°C