

Native Human Aspartate Aminotransferase

Cat. No. NATE-0951

Lot. No. (See product label)

Introduction

Description

AST/SGOT is found in many tissues throughout the body, including the liver, heart, muscles, kidney, and brain. If any of these organs or tissues is affected by disease or injury, AST is released into the bloodstream. This means that AST isn't as specific an indicator of liver damage as ALT (also known as alanine aminotransferase, another type of enzyme found almost entirely in the liver).

Applications

Diagnostic Controls; Calibrators & Standards; Immunoassays; Clinical Chemistry; Testing/Assay Validation; Life Science; Manufacturing

Synonyms

Aspartate Transaminase; Glutamate Oxaloacetate; AST; GOT; Sgot; AspAT; ASAT; AAT; serum glutamic oxaloacetic transaminase

Product Information

Species

Human

Source

Human Liver

Form

Lyophilized

EC Number

EC 2.6.1.1

CAS No.

9000-97-9

Molecular Weight

~92,000

Purity

Purified (Control Grade)

Activity

> 1 U/mg

Contaminants

CK: < 1.0% ALT/GPT: < 2.0% LDH: < 10% Ammonia: < 0.001 micromole/mg

Unit Definition

One unit will catalyze the transamination of one micromole of L-aspartate to alpha-ketoglutarate forming L-glutamate and oxaloacetate per minute at 37°C and pH 7.8. Measured at 340 nm as one equimolar amount of NAD produced by a coupled reaction.

Storage and Shipping Information

Storage

Store at -20°C

Stability

3 years