

## Native Human Aspartate Aminotransferase

Cat. No. NATE-0950

Lot. No. (See product label)

### Introduction

**Description** AST 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; ELISA; Blotting; Characterization

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

### Product Information

**Species** Human

**Source** Human Heart

**Form** Lyophilized

**EC Number** EC 2.6.1.1

**CAS No.** 9000-97-9

**Molecular Weight** ~92,000

**Purity** Purified (Control Grade)

**Activity** > 5 U/mg

**Contaminants** ALT/GPT: < 2% CPK: < 5% LDH: < 1% NOTE: Custom purification available

**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** 2 years