



Product Datasheet

Product Name	Alanine Aminotransferase Human Recombinant
Cata No	CB500459
Source	<i>Escherichia Coli.</i>
Synonyms	ALT1, Glutamic-pyruvic transaminase 1, GPT 1, Glutamic-alanine transaminase 1, AAT1, ALT, ALAT, SGPT.

Description

Alanine transaminase or ALT is a transaminaseenzyme.

ALT is found in serumand in various bodily tissues, but is most commonly associated with the liver; It catalyzes the transfer of an aminogroup from alanineto a-ketoglutarate, the products of this reversible transaminationreaction being pyruvateand glutamate:

alanine+ α -ketoglutarate= pyruvate+ glutamate

It is commonly measured clinically as a part of a diagnostic liver function test, to determine liver health. It is also called serum glutamate pyruvate transaminase (SGPT) or alanine aminotransferase (ALAT). Diagnostically, it is almost always measured in units/litre (U/L).

Alanine Aminotransferase Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing having a molecular mass of 54,479 Dalton.

The ALT is purified by proprietary chromatographic

techniques.

Physical Appearance

Sterile liquid formulation.

Biological Activity

The specific activity was found to be 1,000 U/mg.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

The protein was dialyzed against 40mM sodium acetate buffer (pH 5.5), 1mM DTT,1mM EDTA, 5mM 2-oxoglutarate and 0.1mM pyridoxal-5'-phosphate.

Stability

AAT1 although stable at 10°C for 5 days, should be stored desiccated below -18°C.

Please prevent freeze-thaw cycles.