

## ARG81298 ALT / Alanine Transaminase Assay Kit

Package: 100 tests

Store at: -20°C

### Summary

Product Description	ARG81298 ALT / Alanine Transaminase Assay Kit is a detection kit for the quantification of ALT / Alanine Transaminase in serum and plasma.
Tested Reactivity	Hu, Ms, Rat, Mamm
Tested Application	FuncSt
Specificity	Alanine Transaminase (ALT) facilitates the conversion of alanine and $\alpha$ -ketoglutarate to pyruvate and glutamate. Then pyruvate and NADH are converted to lactate and NAD by lactate dehydrogenase (LDH). Therefore, the decrease in NADH absorbance at 340 nm is proportionate to ALT activity.
Target Name	ALT / Alanine Transaminase
Conjugation Note	Read at 340 nm.
Sensitivity	2 U/l
Detection Range	2 - 100 U/l
Sample Type	Serum and plasma.
Sample Volume	20 $\mu$ l
Alternate Names	Glutamate pyruvate transaminase 1; AAT1; GPT1; GPT 1; Glutamic--alanine transaminase 1; Glutamic--pyruvic transaminase 1; Alanine aminotransferase 1; ALT1; EC 2.6.1.2

### Application Instructions

Application Note	Please note that this kit does not include a microplate.
Assay Time	10 min

### Properties

Form	Liquid
Storage instruction	Store the kit at -20°C. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

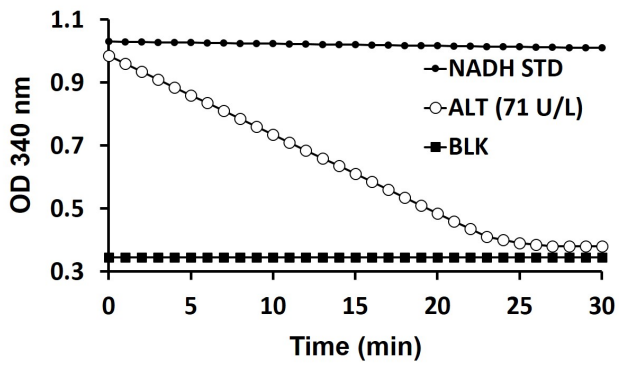
Gene Symbol	GPT
Gene Full Name	glutamic-pyruvate transaminase (alanine aminotransferase)
Background	This gene encodes cytosolic alanine aminotransaminase 1 (ALT1); also known as glutamate-pyruvate transaminase 1. This enzyme catalyzes the reversible transamination between alanine and 2-oxoglutarate to generate pyruvate and glutamate and, therefore, plays a key role in the intermediary metabolism of glucose and amino acids. Serum activity levels of this enzyme are routinely used as a biomarker of liver injury caused by drug toxicity, infection, alcohol, and steatosis. A related gene on chromosome 16 encodes a putative mitochondrial alanine aminotransaminase.[provided by RefSeq,

Nov 2009]

Function

Catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate. Participates in cellular nitrogen metabolism and also in liver gluconeogenesis starting with precursors transported from skeletal muscles (By similarity). [UniProt]

## Images



ARG81298 ALT / Alanine Transaminase Assay Kit functional study image

Functional study: ARG81298 ALT / Alanine Transaminase Assay Kit results of a typical example of ALT activity reading at 340 nm.