

## ARG81297 AST / Aspartate Transaminase Assay Kit

Package: 100 tests  
Store at: -20°C

### Summary

Product Description	ARG81297 AST / Aspartate Transaminase Assay Kit is a detection kit for the quantification of AST / Aspartate Transaminase in serum and plasma.
Tested Reactivity	Hu, Ms, Rat, Mamm
Tested Application	FuncSt
Specificity	Aspartate aminotransferase (ASAT/AAT) facilitates the conversion of aspartate and alpha-ketoglutarate to oxaloacetate and glutamate. And then oxaloacetate and NADH are converted to malate and NAD by malate dehydrogenase. Therefore, the decrease in NADH absorbance at 340 nm is proportionate to AST activity.
Target Name	AST / Aspartate 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 µl
Alternate Names	Cysteine transaminase, cytoplasmic; cAspAT; GIG18; Glutamate oxaloacetate transaminase 1; cCAT; EC 2.6.1.3; Cysteine aminotransferase, cytoplasmic; ASTQTL1; AST1; EC 2.6.1.1; Transaminase A; Aspartate aminotransferase, cytoplasmic

### 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.

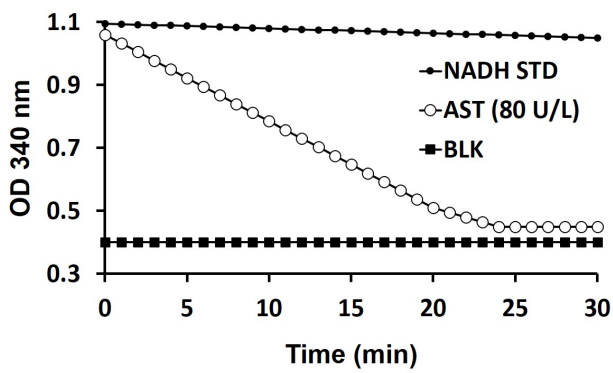
### Bioinformation

Gene Symbol	GOT1
Gene Full Name	glutamic-oxaloacetic transaminase 1, soluble
Background	Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology. [provided by RefSeq, Jul 2008]

Function

Biosynthesis of L-glutamate from L-aspartate or L-cysteine. Important regulator of levels of glutamate, the major excitatory neurotransmitter of the vertebrate central nervous system. Acts as a scavenger of glutamate in brain neuroprotection. The aspartate aminotransferase activity is involved in hepatic glucose synthesis during development and in adipocyte glyceroneogenesis. Using L-cysteine as substrate, regulates levels of mercaptopyruvate, an important source of hydrogen sulfide. Mercaptopyruvate is converted into H(2)S via the action of 3-mercaptopyruvate sulfurtransferase (3MST). Hydrogen sulfide is an important synaptic modulator and neuroprotectant in the brain. [UniProt]

Images



ARG81297 AST / Aspartate Transaminase Assay Kit functional study image

Functional study: ARG81297 AST / Aspartate Transaminase Assay Kit results of a typical example of AST activity reading at 340 nm.