Aspartate Aminotransferase (AST or SGOT) Activity Colorimetric Assay Kit

Cat. No. Kit-2303 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Aspartate aminotransferase (AST), also known as Glutamate-oxaloacetate transaminase (GOT) is a transaminase (EC 2.6.1.1) similar to the more liver specific alanine transaminase (ALT). Although commonly included clinically as part of a diagnostic liver function test, AST has a broader clinical utility since it may also be elevated in diseases affecting other organs, such as the heart or muscles in myocardial infarction, also in acute pancreatitis, acute hemolytic anemia, severe burns, acute renal disease, musculoskeletal diseases and trauma. It catalyzes the reaction:Aspartate +;-Ketoglutarate;Oxaloacetate + Glutamate Diagnostically, it is almost always measured in units/liter (U/L). In AST Assay Kit, an amino group is transferred of from aspartate to;-ketoglutarate. The products of this reversible transamination reaction are oxaloacetate and glutamate. The glutamate is detected in a reaction that concomitantly converts a nearly colorless probe to color (λmax = 450 nm). The kit provides a rapid, simple, sensitive and reliable test suitable as a high throughput activity assay of AST with a detection limit of 10 mU per well.
Applications	This assay detects AST/ SGOT with a detection limit of 10 mU per well.
Storage	-20°C
Shipping	Gel Pack
Size	100 assays

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Kit Components	AST Assay Buffer; AST Enzyme Mix; Developer; AST Substrate; Glutamate Standard (0.1M); AST Positive Control
Target Species	Mammalian
Detection method	Absorbance (450 nm)
Features & Benefits	Simple procedure; Fast, reliable and convenient; Sensitive assays for measuring AST/ SGOT activity in various biological samples and the kit is also suitable for high throughput analyses.

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