

# Aspartate Aminotransferase (AST)

The National Academy of Clinical Biochemistry (NACB) and the American Association for the Study of Liver Disease (AASLD) published performance goals for the aminotransferases in the December 2000 issue of *Clinical Chemistry*.<sup>\*</sup> DCL offers both a dual stable liquid and a lyophilized Modified IFCC Reference Method formulation for AST (SGOT) to meet your laboratory's needs. Both AST formulations comply with NACB/AASLD performance goals so your laboratory can meet the demanding analytical challenges of monitoring patients with chronic liver injury. DCL's stable liquid AST offers the flexibility of running the assay as a two-part reagent system or as a single vial working reagent which is stable for 4 weeks when stored at 2-8°C. The lyophilized formulation is a convenient single vial reagent system.

## Performance Summary

Reportable Range (NCCLS EP6-P)	10 - 600 U/L
Correlation to Roche Hitachi® 717	$r = 0.9979$ Range of values    13 - 301 U/L This method = 1.02 ( reference method ) - 2.6 U/L $n = 55$
<b>Interference Profile</b>	
Hemolysis	Red blood cells contain high levels of AST, therefore hemolysis can elevate results
Icterus	No significant icterus interference was found at bilirubin levels from 0 - 684 $\mu\text{mol/L}$ (0 - 40 mg/L)
Lipemia	Acceptable results (< 10% bias) to 1200 mg/dL of triglycerides

## Precision Studies (NCCLS EP5-T2)

Level U/L	Total CV %	Within-Run CV %
54	3.2	2.1
225	2.5	0.7

Per package insert

### Aspartate Aminotransferase-SL

Dual stable liquid, ready-to-use formulation, 15 month shelf life at 2-8°C

Cat. No. 319-10	Kinetic, 340 nm	1 x 100 mL (R1) + 1 x 25 mL (R2)
Cat. No. 319-30	Kinetic, 340 nm	3 x 100 mL (R1) + 1 x 75 mL (R2)
Cat. No. 319-17	Kinetic, 340 nm	4 x 80 mL (R1) + 4 x 20 mL (R2) (wedge packaging)
Cat. No. 319-50A	Kinetic, 340 nm	1 x 1000 mL (R1)
Cat. No. 319-50B	Kinetic, 340 nm	1 x 300 mL (R2)

Modified IFCC Reference Method

### Aspartate Aminotransferase

Lyophilized formulation, 36 month shelf life at 2-8°C

Cat. No. 303-42	Kinetic, 340 nm	20 x 10 mL
Cat. No. 303-43	Kinetic, 340 nm	12 x 20 mL

Modified IFCC Reference Method

### Associated Products

Cat. No. SE-035	DC-Cal Calibrator	5 x 3 mL
Cat. No. SM-052	DC-Trol Level 1 Control (Normal)	10 x 5 mL
Cat. No. SM-056	DC-Trol Level 2 Control (Abnormal)	10 x 5 mL

<sup>\*</sup>Dufour, D.R., et al. 2000. Diagnosis and Monitoring of Hepatic Injury. I. Performance Characteristics of Laboratory Tests. *Clinical Chemistry*, 46:12, p. 2027-2049.

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319/303.1S  
2/19/03



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