



Teco Diagnostics

Intended Use

For the quantitative determination of aspartate aminotransferase (AST) in human serum.

Principle

AST catalyzes the transfer of an amino group between L-aspartate and 2-oxoglutarate. The oxalacetate formed from the reaction is then reacted with NADH in the presence of malate dehydrogenase (MDH) to form NAD. AST activity is determined by measuring the rate of oxidation of NADH at 340 nm.

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Test:

AST(SGOT) Reagent Set (A560-400)

Number of Tests:

400 tests
8 x 150 mL

Format:

Powder

Method:

Kinetic

Testing Procedure:

Manual

Storage Temperature:

2-8°C

Reconstituted Stability:

21 days at 2-8°C
8 hours at 15-30°C

Wavelength:

340 nm

Linearity:

500 U/L

Expected Values:

Up to 28 IU/L (30°C)
Up to 40 IU/L (37°C)

It is strongly recommended that each laboratory establish its own range of expected values.

Reagent Deterioration:

The reagent should be discarded if: (1) The initial absorbance, read against water at 340 nm is below 0.800; (2) The reagent fails to meet stated parameters of performance

Limitations of Procedure:

Pyridoxal phosphate can elevate AST values by activating the apoenzyme form of the transaminase. High levels of pyruvate may also interfere with assay performance.