



Teco Diagnostics

Intended Use

For the quantitative determination of aspartate aminotransferase (AST) in human serum. The reagents are used in routine examination and monitoring of therapy and relapses.

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.

Test:

AST(SGOT) Liquid Reagent (A559-150)

Number of Tests:

150 tests

Format:

Liquid

Method:

Kinetic

Testing Procedure:

Manual

Storage Temperature:

2-8°C

Wavelength:

340 nm

Linearity:

500 U/L at 37°C

Expected Values:

8-33 U/L at 37°C

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

Reagent Deterioration:

Discard the reagents if either appears cloudy or contains particulate matter. The working reagent should be discarded if the initial absorbance, read against distilled water at 340 nm, is below 1.100.

Limitations of Procedure:

Hemolysis must be avoided as the concentration of AST in red cells is roughly 10 times that of serum.

Grossly icteric or turbid specimen may require the use of a sample blank.

AST values for neonatal patients have not been established with this procedure.

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