



Teco Diagnostics

Intended Use

For the quantitative determination of alanine aminotransferase (glutamate pyruvate transaminase, SGPT) in human serum

Principle

ALT (SGPT) catalyzes L-alanine and α -ketoglutarate to form pyruvate and glutamate. The pyruvate is then reacted with 2, 4-dinitrophenyl-hydrazine to form 2, 4-dinitrophenyl-hydrazone. The addition of sodium hydroxide dissolves this complex, allowing 2, 4-dinitrophenylhydrazone to be measured at 505 nm.

Test:

ALT (SGPT) Reagent (A526-120)

Number of Tests:

120 tests

Format:

Liquid

Method:

Colorimetric, Endpoint

Testing Procedure:

Manual

Storage Temperature:

2-8°C

Wavelength:

505 nm

Linearity:

120 IU/L

Expected Values:

5-35 IU/L

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

Reagent Deterioration:

Discard the reagent if turbidity and precipitation has occurred.

Discard the reagent if it fails to meet linearity claims or fails to recover control values in the stated range.

Limitations of Procedure:

Pyridoxal phosphate can elevate ALT values by activating the apoenzyme form of the transaminase.

High levels of serum pyruvate may also interfere with assay performance.

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