



Teco Diagnostics

Intended Use

For the direct colorimetric determination of alkaline phosphatase in human serum.

Principle

The alkaline phosphatase acts upon the AMP-buffered sodium thymolphthalein monophosphate. The addition of an alkaline reagent stops enzyme activity and simultaneously develops a blue chromogen, which is measured photometrically.

Test:

Alkaline Phosphatase Reagent (A506-140)

Number of Tests:

140 tests

Format:

Liquid

Method:

Colorimetric, endpoint

Testing Procedure:

Manual

Storage Temperature:

2-8°C

Wavelength:

590 nm

Linearity:

100 IU/L

Expected Values:

Adults: 9-35 IU/L at 37°C

Children have a higher normal value.

It is strongly suggested that each laboratory establish its own normal range.

Reagent Deterioration:

The Alkaline Phosphatase Substrate should be a clear amber solution. A precipitation or blue-green color would indicate deterioration.

The Alkaline Color Developer should be a clear, colorless solution.

Failure of the Alkaline Phosphatase Standard to achieve assayed values of freshly prepared sera would indicate deterioration.

Limitations of Procedure:

EDTA, citrate, fluoride, and oxalate inhibit alkaline phosphatase.

This methodology measures total alkaline phosphatase irrespective of tissue or organ of origin. Further tests may be necessary to assist in differential diagnosis.

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