



Teco Diagnostics

Intended Use

For the quantitative determination of alkaline phosphatase in human serum.

Principle

The enzymatic sequence employed in the assay of alkaline phosphatase: alkaline phosphatase hydrolyzes p-Npp to become p-Nitrophenol and H_3PO_4 . p-Npp is colorless but p-Nitrophenol has strong absorbance at 405 nm. The rate of increased absorbance at 405 nm is proportional to the enzyme activity.

CONTACT US:

TECO DIAGNOSTICS

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Test:

Alkaline Phosphatase Kinetic (A505-400)

Number of Tests:

400 tests
8 x 50 mL

Format:

Powder

Method:

Kinetic

Testing Procedure:

Manual & automated

Storage Temperature:

2-8°C

Reconstituted Stability:

30 days at 2-8°C
24 hours at 15-30°C

Wavelength:

405 nm

Linearity:

900 IU/L

Expected Values:

Adults: 25-90 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 reagent should be discarded if: (1) Turbidity has occurred; (2) Moisture has penetrated the vial and caking has occurred; (3) The working reagent has an absorbance against water greater than 0.8 at 405nm.

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.