



Teco Diagnostics

Intended Use

For the quantitative determination of alkaline phosphatase in human serum.

Principle

p-Npp and water react with alkaline phosphatase to produce p-Nitrophenol and phosphoric acid. p-Npp is colorless but p-Nitrophenol has strong absorbance at 405 nm. The rate of increase absorbance at 405 nm is proportional to the enzyme activity.

CONTACT US:

TECO DIAGNOSTICS

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Test:

Alkaline Phosphatase Reagent (A504-150)

Number of Tests:

150 tests

Format:

Liquid

Method:

Kinetic

Testing Procedure:

Manual & Automated

Storage Temperature:

2-8°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) 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.