



Teco Diagnostics

Intended Use

For the quantitative determination of alkaline phosphatase in human serum on TC Matrix analyzers.

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 (A504-780TM)

Number of Tests:

780 tests

Format:

Liquid

Method:

Kinetic

Testing Procedure:

Automated

Storage Temperature:

2-8°C

Wavelength:

405 nm

Linearity:

5-900 IU/L

Expected Values:

Adults: 32-92 IU/L at 37°C

Limitations of Procedure:

The anticoagulants potassium oxalate, sodium fluoride, and sodium citrate were found to be incompatible with this method.

The anticoagulants EDTA, lithium heparin, sodium heparin, ammonium heparin were found to be compatible with this method.

Samples showing evidence of hemolysis should not be used.

Inhibitors of alkaline phosphatase activity include: oxalates, Hg^{++} , excess inorganic phosphate, bile acids, some amino acids and urea.