



Teco Diagnostics

Intended Use

For the quantitative determination of acid phosphatase in human serum.

Principle

The α -Naphthol released from the substrate α -Naphthylphosphate by acid phosphatase is coupled with Fast Red TR to produce a colored complex that absorbs light at 405 nm. L-Tartrate inhibits prostatic acid phosphatase but does not interfere with the reaction mechanism. The difference between the results of the two assays is the level of prostatic acid phosphatase in serum.

CONTACT US:

TECO DIAGNOSTICS

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Test:

Acid Phosphatase Reagent Set (A591-60)

Number of Tests:

60 tests
10 x 6 mL

Format:

Powder

Method:

Kinetic

Testing Procedure:

Manual

Storage Temperature:

2-8°C

Reconstituted Stability:

7 days at 2-8°C
24 hours at 15-30°C

Wavelength:

405 nm

Linearity:

60 U/L at 37°C

Expected Values:

Total Acid Phosphatase: 0 – 9 U/L

Prostatic Acid Phosphatase: 0 – 3 U/L

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

Reagent Deterioration:

The reagent should not be used if: (1) The reconstituted acid phosphatase reagent, without serum added, has an absorbance greater than 0.4 when measured at 405nm against water; (2) The L-Tartrate Reagent is precipitated. Apply heat (40-50°C) to redissolve reagent.

Limitations of Procedure:

High levels of bilirubin inhibit acid phosphatase activity.