



Teco Diagnostics

Intended Use

Cholinesterase reagent is used for *in vitro* diagnostic use in the quantitative kinetic determination of cholinesterase in human serum, plasma, or whole blood.

Principle

Cholinesterase hydrolyzes Propionylthiocholine (PTC) to form Thiocholine which reacts with 5,5'-dithiobis-2-nitrobenzoic Acid (DTNB) to yield yellow 5-thio-2-nitrobenzoate with an absorbance maximum at 405 nm. The rate of change in absorbance at 405 nm is directly proportional to cholinesterase activity.

CONTACT US:

TECO DIAGNOSTICS

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Test:

Cholinesterase (PTC) Reagent Set (C511-60)

Number of Tests:

60 tests
10 x 6 mL bottles

Format:

Powder

Method:

Kinetic

Testing Procedure:

Manual

Storage Temperature:

2-8°C

Reconstituted Stability:

6 hours at 15-30°C
3 days at 2-8°C

Wavelength:

405 nm

Linearity:

8,000 IU/L at 30°C

Expected Values:

Serum: 3100-7700 U/L (at 30°C)
Plasma: 1700-4100 U/L(at 30°C)
Whole Blood: 3300-5500 U/L(at 30°C)
Erythrocytes: 4400-8200 U/L(at 30°C)

Reagent Deterioration:

The reagent should be discarded if: (1) moisture has penetrated the vial and caking has occurred; (2) The reconstituted reagent has an absorbance against water greater than 1.200 at 405 nm.

Limitations of Procedure:

Hemolyzed serum samples should not be used. Certain drugs and other substances are also known to affect cholinesterase activity. Extremely lipemic samples or icteric serum should have blank correction performed. This procedure does not include Dibucaine or Fluoride for resistance studies.