



Teco Diagnostics

Intended Use

For the direct, colorimetric determination of calcium in human serum or urine.

Principle

Calcium reacts with cresolphthalein complexone in 8-hydroxyquinoline to form a colored complex (purple color) that absorbs at 570 nm. The intensity of the color is proportional to the calcium concentration.

Test:

Calcium Reagent Set (C503-480)

Number of Tests:

480 tests
4 x 120 mL bottles

Format:

Liquid

Method:

Colorimetric

Testing Procedure:

Manual

Storage Temperature:

15-30°C

Wavelength:

570 nm

Linearity:

20 mg/dL

Expected Values:

8.5-10.5 mg/dL

Children under 12 usually have high normal value, which decreases with aging.

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

Reagent Deterioration:

The reagent should be discarded if: (1) Turbidity has occurred; (2) The reagent fails to meet linearity claims or fails to recover control values in the stated range.

Limitations of Procedure:

Substances that contain calcium or complex calcium should not come in contact with the test specimen. Examples: EDTA, citrate, oxalate, and fluoride.

Specimens from patients receiving bromsulfophthalein (BSP) or EDTA should not be used.

Lipemic or hemolyzed samples require a serum blank.

Contamination of glassware with calcium (usually from detergents) will adversely affect the test. Use acid-washed glassware or plastic tubes.

CONTACT US:

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