



Teco Diagnostics

Intended Use

For the quantitative determination of calcium concentration in serum or plasma.

Principle

Arsenazo III reacts with calcium ions to produce calcium ions and an Arsenazo III complex. The complex is bluish-purple. The change in absorbance at 650 nm is directly proportional to the concentration of calcium in the sample.

Test:

Calcium (ARSENAZO III) (C504-480)

Number of Tests:

480 tests
4 x 120 mL bottles

Format:

Liquid

Method:

Colorimetric, Endpoint

Testing Procedure:

Manual and Automated

Storage Temperature:

15-30°C

Wavelength:

650-670 nm

Linearity:

15 mg/dL

Expected Values:

8.4-10.2 mg/dL

Reagent Deterioration:

The reagent should be discarded if the turbidity has occurred; turbidity may be a sign of contamination.

Limitations of procedure:

Hemoglobin levels up to 500 mg/dL, Lipemia levels up to 500mg/dL, Ascorbic acid levels up to 30 mg/dL and Bilirubin levels up to 50 mg/dL were found to exhibit negligible interference.

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