



Teco Diagnostics

Intended Use

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

Principle

Chloride ions form a soluble, non-ionized compound, with mercuric ions and will displace thiocyanate ions from non-ionized mercuric thiocyanate. The released thiocyanate ions react with ferric ions to form a color complex that absorbs light at 480 nm. The intensity of the color produced is directly proportional to the chloride concentration.

Test:

Chloride Reagent Set (C501-580TM)

Number of Tests:

580 tests

Format:

Liquid

Method:

Colorimetric, Endpoint

Testing Procedure:

Automated

Storage Temperature:

15-30°C

Wavelength:

510 nm

Linearity:

70-140 mEq/L

Expected Values:

Serum: 98-106 mEq/L

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

Reagent Deterioration:

Do not use if the reagent is red-brown color and/or cloudy. The reagent should be a clear, pale-yellow solution.

Limitations of Procedure:

Bromide and Fluoride can cause falsely elevated chloride values.
Hydrochloric acid fumes may cause high results.

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