



# Teco Diagnostics

## Intended Use

For the quantitative determination of chloride in human serum.

## 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 (C501-480)

### Number of Tests:

480 tests  
4 x 120 mL bottles

### Format:

Liquid

### Method:

Colorimetric

### Testing Procedure:

Manual

### Storage Temperature:

15-30°C

### Wavelength:

480 nm

### Linearity:

70-140 mEq/L

### Expected Values:

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.

## CONTACT US:

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