



Teco Diagnostics

Intended Use

For the quantitative determination of magnesium in serum.

Principle

Magnesium forms a colored complex with calmagite in alkaline medium to produce a red complex that is measured spectrophotometrically at 530 nm. EGTA serves to complex and prevent calcium interference, and a surfactant eliminates the effect of protein. The color produced is proportional to the magnesium concentration.

Test:

Magnesium Reagent Set (M527-100)

Number of tests:

100 tests

Format:

Liquid

Method:

Colorimetric

Testing Procedure:

Manual

Storage Temperature:

2-8°C

Wavelength:

530 nm

Linearity:

4.0 mEq/L (4.86 mg/dL)

Expected Values:

Adults: 1.3-2.5 mEq/L

Reagent Deterioration:

Failure to achieve assayed values on freshly prepared control sera would indicate deterioration.

Working reagent becomes visibly turbid.

Limitations of Procedure:

Plasma collected with anticoagulants such as EDTA, citrate and oxalate must not be used. A number of drugs and substances affect the concentration of magnesium.

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