



Teco Diagnostics

Intended Use

For the quantitative determination of magnesium concentration in serum or plasma on TC Matrix analyzers.

Principle

Magnesium forms a colored complex with calmagite in alkaline medium to produce a red complex that is measured spectrophotometrically at 520 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 – 430TM)

Number of Tests:

430 tests

Format:

Liquid

Method:

Colorimetric, Endpoint

Testing Procedure:

Automated

Storage Temperature:

2 – 8°C

Wavelength:

546 nm

Expected Values:

1.7 – 2.8 mg/dL or 0.70 to 1.15 mmol/L

Linearity:

0.1 -7.0 mg/dL

Limitations of Procedure:

The anticoagulants EDTA, Potassium Oxalate, Sodium Fluoride and Sodium Citrate were found to be incompatible with this method.

Hemoglobin levels up to 400 mg/dL, Triglyceride levels up to 1000 mg/dL and Bilirubin levels up to 30 mg/dL were found to exhibit negligible interference.

A number of drugs and substances affect the concentration of magnesium.

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