



# Teco Diagnostics

## Intended Use

For the colorimetric determination of sodium in human serum and plasma.

## Principle

The present method is based on precipitation of sodium as the triple salt, sodium magnesium uranyl acetate, with the excess uranium then being reacted with ferrocyanide, producing a chromophore whose absorbance varies inversely as the concentration of sodium in the test specimen.

**Test:**

Sodium Reagent Set (Colorimetric Method) (S600 – 50)

**Number of Tests:**

50 tests

**Format:**

Liquid

**Method:**

Colorimetric

**Testing Procedure:**

Manual

**Storage Temperature:**

15 – 30°C

**Wavelength:**

550 nm

**Expected Values:**

133 – 155 mEq/L

**Linearity:**

200 mEq/L

**Reagent Deterioration:**

If turbidity has occurred, turbidity may be a sign of contamination.

**Limitations of Procedure:**

When preparing filtrates, inadequate shaking or centrifugation will cause falsely lowered test results.

Blood calcium, chloride, and potassium levels of up to 3 times normal reportedly exert no adverse influence on the procedure; phosphorus levels exceeding 5 times normal likewise present no problems.

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