



- ❖ Liquid Stable Single Reagent –No reconstitution required.
- ❖ Only five minutes procedure.
- ❖ Available in monovials- no chance of contamination.

- ❖ Modified Colorimetric Method.
- ❖ Convenient pack size of 50 tests.
- ❖ High linearity up to 180mmol/l.

SODIUM KIT

Modified Colorimetric method
(For **IN VITRO** Diagnostic use only)

IVD

PRINCIPLE:

The method is based on reaction of sodium with a selective Chromogen producing a chromophore whose absorbance varies directly as the concentration of sodium in the test specimen.

KIT CONTENTS:

Pack Size :	50 Tests	25 Tests
R₁-Colour Reagent	50 x 01ml	25 x 01ml
S₁-Sodium Standard (150 mmol/l)	1 x 02 ml	1 x 02ml

STORAGE & STABILITY:

All reagents are store at 2 to 8°C temperature, protected from light and contaminations prevented during their use. Reagents stable upto the expiry date mentioned on the label.

SAMPLES:

Serum or plasma.

REFERENCE VALUES:

Sodium : 135 - 155 mmol/l

[It is recommended that each laboratory should establish its own normal range]

REAGENT PREPARATION:

All reagents are ready to use.

ASSAY PROCEDURE:

Wavelength / Filter : 620 nm (600 - 650 nm)
 Temperature : R.T.
 Cuvette : 1 cm light path.

PROCEDURE:

	B	S	T
R₁-Colour reagent	1000ul	1000ul	1000ul
S₁-Sodium standard (150mmol/l)	-----	10ul	-----
Serum	-----	-----	10ul

Mix well and incubate at **R.T.** for **exactly 05 min.** and measure the absorbance of the Standard (**Abs.S**) and Test Sample (**Abs.T**) against the reagent blank (Abs.B).

CALCULATION:

$$\text{Sodium in mmol/l} = \frac{(\text{Abs.T}) - (\text{Abs.B})}{(\text{Abs.S}) - (\text{Abs.B})} \times 150$$

LINEARITY:

The reagent is linear upto **180 mmol/l**.

If a value exceeds this limit, dilute the sample with DI water & repeat the assay. Multiply the result with proper dilution factor.

ASSAY PARAMETERS:

- Mode of reaction : End point
- Slope of reaction : Increasing
- Wavelength : 620 nm
- Temperature : R.T.
- Blanking : Reagent blank
- Standard Conc. : 150 mmol/l
- Reaction time : 05 min
- Reagent Volume : 1000 ul
- Sample Volume : 10 ul
- High Linearity : 180 mmol / l
- Low Linearity : 0 mmol / l

REFERENCES:

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 Maruna RFL., Clin Chem. Acta. 2:581,(1958)
 Trinder, P:Analyst, 76:596,(1951)

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