

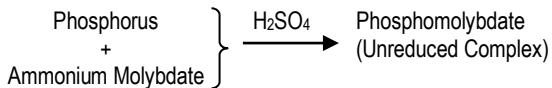
PHOSPHORUS (Single Liquid)

(Molybdate/ UV Method)

Reagent kit for quantitative estimation of Phosphorus in serum.

PRINCIPLE:

The principle of the method is given by the reaction:



PRESENTATION:

	No. of Bottles
	15 x 1 Test
• Phosphorus Reagent (Liquid) (Ready to use)	15
• Phosphorus Standard (5 mg/dl)	1

PRECAUTIONS:

All the reagents in this kit are for *IN-VITRO* diagnostic use only.

- All the glasswares should be decontaminated by soaking in 6N HCl for 4-6 hours. Rinse the glasswares thoroughly with distilled water prior to use.

PREPARATION OF WORKING REAGENT:

Phosphorus Reagent (Liquid) is ready to use.

REAGENT STORAGE & STABILITY:

All the reagents included in the kit are stable at 2-8°C until the expiry date indicated on the label.

SPECIMEN:

Fresh clear Serum. Use of Plasma is not recommended.

GENERAL PROCEDURE :

- Reaction type : End point
- Wavelength : 340 nm
- Temperature : 30°C
- Incubation : 5 min. at R.T.
- Std. concentration : 5 mg/dl
- Sample Volume : 10 µl (0.01 ml)
- Reagent Volume : 1.0 ml
- Zero Setting with : Reagent blank

PROCEDURE:

PIPETTE INTO TEST TUBES	BLANK	STANDARD	TEST
• REAGENT (ml)	1.0	1.0	1.0
• SAMPLE (ml)	-	-	0.01
• STANDARD (ml)	-	0.01	-

Mix well, incubate for 5 minutes at room temperature and read absorbance of standard and test against blank at 340 nm.

TEST RESULTS:

$$\begin{aligned} \text{S. Phosphorus} &= \frac{\text{Abs. of test}}{\text{Abs. of std.}} \times \text{Conc. of std.} \\ &= \frac{\text{Abs. of test}}{\text{Abs. of std.}} \times 5 \text{ mg/dl.} \end{aligned}$$

NORMAL VALUES:

Children: 4.0 to 7.0 mg/dl

Adult : 2.5 to 5.0 mg/dl

LINEARITY:

This method is linear upto 15 mg/dl. For samples with values higher than 15 mg/dl, dilute the samples with distilled water and repeat the assay. Apply proper dilution factor

REFERENCES:

- Daly J.A. And Ertingshausen G.Clin. Chem. 18 (1972) 263-265
- Gamst. O and Try K. Scand J. Clin. Lab. 40 (1980) 483-486

