

# PHOSPHORUS-L (Single Liquid)

[Ammonium Molybdate]

CHEMPAK

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Ref.

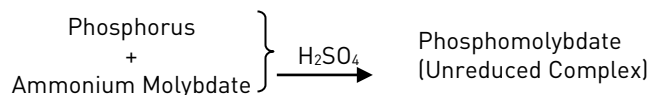
CC1-PIC.044, 20 Test

## INTENDED USE

Reagent kit for quantitative estimation of Phosphorus in serum.

## PRINCIPLE

The principle of the method is given by the reaction:



## PRESENTATION

Store all reagents at 2-8° C	No. of Bottles 20 Test
• Phosphorus-L (Ready to use)	20
• 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 1N HCl. Rinse the glasswares thoroughly with distilled water prior to use.

## PREPARATION OF WORKING REAGENT

Phosphorus-L 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 COLLECTION

Fresh clear Serum. Use of Plasma is not recommended.

## REACTION PARAMETERS

- 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

## TEST 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

$$\text{Phosphorus} = \frac{\text{Abs. of test}}{\text{Abs. of Standard}} \times 5 \text{ mg/dl}$$

## 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

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



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