Phosphorus Test Kit

REF	Pack Size	Reagent
PHOLMA01	5 x 20	1 x 20ml

INTENDED USE
Phosphorous reagent is used for quantitative estimation of phosphorous concentration in human serum or plasma

CLINICAL SIGNIFICANCE
Phosphorus is an essential mineral for tissue bone formation and is required by every cell in the body for normal function. Approximately 85% of the body phosphorus is found in bone and in teeth. Low levels of phosphorus can be caused by hypervitaminosis D, primary hyperparathyroidism, renal tubular disorders, antacids or malabsorption. High level of phosphorus can be caused by diet, bone metastasis, liver disease, alcohol ingestion, diarrhoea and vomiting. Clinical diagnosis should not be made on a single test result, it should integrate clinical and other laboratory data

METHOD: Phosphomolybdate, End Point.

TEST PRINCIPLE
Ammonium molybdate + Sulfuric Acid $\xrightarrow{\text{Phosphorus}}$ Phosphomolybdate complex

KIT CONTENTS/COMPONENTS
Reagent 1- Phosphorous Reagent

MATERIAL REQUIRED BUT NOT PROVIDED
Fully Auto Biochemistry Analyzer: LM1015-200TPH.
Calibrator
Controls.

REAGENT PREPARATION, STORAGE AND STABILITY
The reagent is stable up to the end of the indicated date of expiry on the vial label, if stored at 2 - 8°C, protected from light and contamination is avoided. Do not freeze the reagent.

SPECIMEN
Use fresh unhaemolysed serum. Avoid use of fluoride, citrate, oxalate and EDTA as anticoagulant. Serum is stable for 7 days at 2-8 °C and one months at -20°C.

APPLICATION For LM1015-200 TPH

Method	End Point
Blank	Reagent blank
Primary filter	340
Secondary filter	No
R1 Volume	300
R1 Position	*
Incubation time (Sec)	260
R2 Volume	-
R2 Position	-
Incubation time (Sec)	-
Sample Volume	3
Read Time	40
Calibrator Concentration	As on vial label
Mix speed set	Middle
Unit	mg/dl
Decimal	2

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CALIBRATION
For calibration, it is recommended to use any multi calibrator.

CALCULATION
Calculations Fully automated systems automatically calculate the Phosphorus concentration of each sample.

NORMAL VALUES
2.7 – 4.5 mg/dl

LIMITATIONS
If the value exceeds 15mg/dl, dilute the sample with 0.9% saline solution rerun and result multiplied by dilution factor.

SAFETY PRECAUTIONS AND WARNINGS
1.For in-vitro diagnostics use only.
2.Do not use the reagent after the expiration date printed on the kit.
3.Avoid reagents contamination.
4.These Reagent kits meant for laboratory/professional use only, not for Drug use.

QUALITY CONTROL AND CALIBRATION
It is recommended to perform internal quality control with assayed normal and assayed abnormal to confirm the validity of the test and assure the accuracy of patient result. Using the recommended multi calibrator, calibrate the assay.
1.When using a new reagent or lot
2.When QC values are out of range

PRECISION
Reproducibility was determined using quality control sera as shown below

	Intra run		Inter run	
Control	Level 1	Level 2	Level 1	Level 2
n	20	20	20	20
Mean (mg/dl)	3.45	6.46	3.46	6.48
SD	0.04	0.09	0.03	0.09
CV (%)	0.01	0.01	0.01	0.01

WASTE DISPOSAL
Reagents must be disposed off in accordance with local regulations.

REFERENCES
Tietz NW, ed. Clinical Guide to Laboratory Tests, 3rd ed. Philadelphia Pa: WB Saunders, 1995:22-24.
Lords Data File.

REF	Catalog No.		Instruction for use
LOT	Batch No.	IVD	*In-vitro* Diagnostics
	Manufacturing Date		Storage temperature
	Expiry Date		Manufacturer

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