CREATIVE BIOMART®
Assay Kit

Blood Phosphate Content Assay Kit

Product Information

Product Overview

Significance: Blood phosphorus mainly refers to inorganic phosphorus present as inorganic phosphate salts. Serum calcium and phosphorus concentrations are closely related, and when expressed in mg/dL, their product ([Ca] × [P]) normally ranges from 30 to 40. Values above 40 lead to calcium-phosphate deposition in bone, while values below 35 impair bone mineralization. Stable blood calcium and phosphorus levels are regulated by absorption, excretion, mineralization, and demineralization processes under hormonal control.
Principle: After removal of organic phosphorus from serum, inorganic phosphate reacts with ammonium molybdate to form phosphomolybdic acid, which is reduced by ferrous sulfate to form a blue complex with absorbance at 660 nm. Phosphorus content is calculated based on absorbance at 660 nm.

Size

100t/96s

Storage

Store at 2–8 °C. Shelf life: 6 months.

Detection method Spectrophotometer/Microplate Reader

Materials Required but Not Supplied

Centrifuge, adjustable pipettes, visible spectrophotometer or microplate reader, micro quartz cuvettes or 96-well plates, and distilled water.

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA