

# Inorganic Phosphorus (Pi) Colorimetric Assay Kit (Phospho Molybdate)

Cat No: HR3BC1233

For research use only

## Overview

|                     |                                                                                                                                                                                                                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detection Method    | Colorimetric method                                                                                                                                                                                                                                                                                                                  |
| Storage             | 2-8°                                                                                                                                                                                                                                                                                                                                 |
| Instrument          | Microplate reader(620 nm-690 nm,optimum wavelength: 660 nm)                                                                                                                                                                                                                                                                          |
| Assay Time          | 40 min                                                                                                                                                                                                                                                                                                                               |
| Validity            | 6                                                                                                                                                                                                                                                                                                                                    |
| Assay Type          | Quantitative                                                                                                                                                                                                                                                                                                                         |
| Sample Type         | Serum,plasma,tissue                                                                                                                                                                                                                                                                                                                  |
| Synonyms            | Pi                                                                                                                                                                                                                                                                                                                                   |
| Instrument          | Microplate reader(620 nm-690 nm,optimum wavelength: 660 nm)                                                                                                                                                                                                                                                                          |
| Detection Principle | Inorganic phosphorus react with molybdic acid to produce phosphomolybdic acid. Phosphomolybdic acid can be reduced to molybdenum blue under the action of reducing agent. And the molybdenum blue have a maximum absorption peak at 660 nm. The phosphorus content can be calculated indirectly by measuring the OD value at 660 nm. |
| Reagents            | Normal saline (0.9% NaCl)                                                                                                                                                                                                                                                                                                            |
| Labware             | Micropipettor, Incubator, Vortex mixer, Centrifuge                                                                                                                                                                                                                                                                                   |
| Size                | 96T                                                                                                                                                                                                                                                                                                                                  |
| Sensitivity         | 0.004 mmol/L                                                                                                                                                                                                                                                                                                                         |
| Detection Range     | 0.004-2.0 mmol/L                                                                                                                                                                                                                                                                                                                     |
| Recovery Rate       | 101                                                                                                                                                                                                                                                                                                                                  |