BIOBOON BIOTECH LLC

Innovative Diagnostics for a Healthier Tomorrow



Alkaline Phosphatase Test Kit

Kinetic UV, Optimized IFCC Method

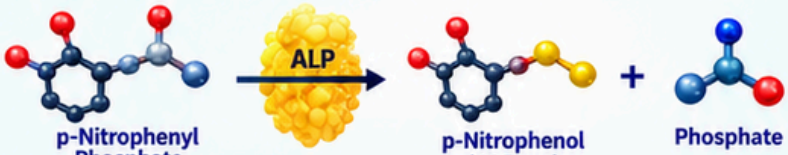
Quantitative determination of Alkaline Phosphatase in human Serum / Plasma / other body fluids.
Only for In Vitro Diagnostic use.



- **Accurate and Reliable Results**
- **Kinetic UV Method (405 nm)**
- **Suitable for Serum / Plasma & Other Body Fluids**
- **Useful for Liver & Bone Disease Diagnosis**
- **Wide Linearity (Up to 2000 IU/L)**

PRINCIPLE

Alkaline phosphatase (ALP) catalyses the hydrolysis of p-nitrophenyl phosphate at alkaline pH, liberating p-nitrophenol and phosphate. The rate of p-nitrophenol formation, measured photometrically, is proportional to the catalytic concentration of alkaline phosphatase present in the sample.



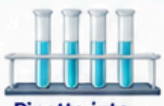
p-Nitrophenyl Phosphate (substrate) → ALP → p-Nitrophenol (405 nm) + Phosphate

KEY PARAMETERS

Wavelength	405 nm
Cuvette	1 cm light path
Reaction Temperature	37°C
Measurement	Against distilled water
Reaction Type	Kinetic test
Reaction Direction	Increasing
Sample Volume	20 µl
Reagent Volume	1000 µl (800 µl + 200 µl)
Delay / Lag Time	60 Secs
Interval Time	30 Secs
No. of Readings	04
Blank Abs. Limit	< 0.85
Factor	2720
Low Normal at 37°C	25 IU/L
High Normal at 37°C	147 IU/L
Linearity at 37°C	2000 IU/L

ASSAY PROCEDURE (MANUAL METHOD)

1



Pipette into test tubes

		SAMPLE
Sample	-	20 µl
Reagent	1000 µl	1000 µl

2



Mix well and incubate at 37°C for 60 seconds.

3



Measure absorbance increase every 30 seconds for 2 minutes and determine ΔA/min.

LINEARITY

The method is linear to a concentration of 2000 IU/L.

Limit of detection

The limit of detection for Alkaline Phosphatase is 2 IU/L.

SAMPLE TYPES

Serum (non-hemolysed)
Plasma (use heparin. Do not use EDTA, Oxalate or Fluoride)
Other body fluids.

ORDER INFORMATION

REF	Pack Size
ALP 25	1 X 25 ml
ALP 125	5 X 25 ml
ALP 50	1 X 50 ml
ALP 100	1 X 100 ml
ALP 1000	1 X 1000 ml
ALP 5000	1 X 5000 ml
ALP 10000	1 X 10000 ml

REFERENCE VALUES (Serum)

Adults	25 – 147 IU/L
Children	
< 1 day	< 250 IU/L
2 – 5 days	< 231 IU/L
6 days – 6 months	< 449 IU/L
7 months – 1 year	< 462 IU/L
1 – 3 years	< 281 IU/L
4 – 6 years	< 269 IU/L
7 – 12 years	< 300 IU/L
13 – 17 years	< 390 IU/L

India Office
BIOBOON BIOTECH INDIA LLP
207. Regent Square
2nd floor, Above D'mart shopping mall
Adajan, Surat - 395009
Email : info@bioboonbiotech.com

Global Diagnostic Solutions for a Brighter, Healthier World

USA Address
BIOBOON BIOTECH LLC
1526 West 3rd Street,
Plainfield, NJ, 07063
USA
Email : mahipal@bioboonbiotech.com