CORALYZER
System Pack

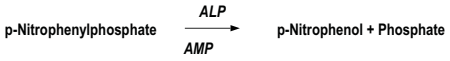
Alkaline Phosphatase Kit (AMP)

IFCC Method

For the determination of Alkaline Phosphatase activity in serum.
(For Invitro Diagnostic Use Only)

Summary
Alkaline Phosphatase (ALP) is an enzyme of the Hydrolase class of enzymes and acts in an alkaline medium.It is found in high concentrations in the liver, biliary tract epithelium and in the bones. Normal levels are age dependent and increase during bone development. Increased levels are associated mainly with liver and bone disease. Moderate increases are seen in Hodgkins disease and congestive heart failure.

Principle
ALP at an alkaline pH hydrolyses p-Nitrophenylphosphate to form p-Nitrophenol and Phosphate. The rate of formation of p-Nitrophenol is measured as an increase in absorbance which is proportional to the ALP activity in the sample.



Normal reference values

Children up to 15 years	: 54 - 369 U/L
Women	: 35 - 104 U/L
Men	: 40 - 129 U/L

It is recommended that each laboratory establish its own normal range representing its patient population.

Contents

Coralyzer 100 System Packs	**40 ml**	**80 ml**
R1 : Buffer Reagent	32 ml	2 x 32 ml
R2 : Substrate Reagent	8 ml	16 ml

Coralyzer 200 System Packs	**40 ml**
R1 : Buffer Reagent	32 ml
R2 : Substrate Reagent	8 ml

Storage / stability
Reagents are stable at 2 - 8^0 C till the expiry mentioned on the labels.

Reagent preparation
Reagents are ready to use.

Sample material
Serum. Free from hemolysis. ALP is reported to be stable in serum for 3 days at 2 - 8^{0}C.

Calibration
Calibrator is recommended for calibration of this assay

Linearity
The procedure is linear upto 1000 U/L at 37^{0}C.

Note
Samples having a very high activity show a very high initial absorbance. If this is suspected then dilute the sample and repeat the assay.

References
Bowers, G.N., McCommb, R.B., (1972) Clin. Chem. 18 : 97
Recommendations of the German Society for Clinical Chemistry, (1972)
Z. Clin. Chem. Bio. 10 : 182
IFCC Primary reference procedure for the measurement of catalytic activity concentrations of enzymes at 37^{0}C

Programming on	**CORALYZER 100/200**
Item	ALP (AMP/IFCC)
Full Name	ALK. PHOSPHATASE
Test Method	Kinetic
Base Information	
Unit	U/L
Filter	405 nm
Sub. Filter	670 nm
Decimal	xx.xx
High pollute	No
Reagent Blank	
Blank Medium	Reagent
Blank Value	0
Blank Low	0
Blank High	1
Sample	
Sample Volume	6
Dilution Times	1
Range Setup	
Reagent	
Rgt. 1 Volume	240
Rgt. 2 Volume	60
Linearity	1000
Read data for check	
Assistant Start	NONE
Assistant End	NONE
Range Low	0
Range High	2
Test Point Start	19
Test Point End	29
Standard	
Number of standard	1
Factor	1
Correct Factor	1
Standard Cup	User Defined
Conc.	See Calibrator

Manufactured by :
Coral Clinical Systems
A Division of Tulip Diagnostics (P) Ltd.
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