# CORALYZER
## System Pack

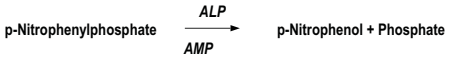
# Alkaline Phosphatase Kit ( AMP )

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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ALP2(C)/0121/VER-03