

Client
Gurugram
Pathkind Diagnostics Pvt. Ltd.
Plot No. 55-56, Udhog Vihar Ph-IV, Gurugram - 122015

Processed By
Pathkind Diagnostics Pvt. Ltd.
Plot No. 55-56, Udhog Vihar Ph-IV, Gurugram - 122015

Name : Mr. BC63	Billing Date : 07/07/2023 12:16:20
Age : 35 Yrs	Sample Collected on : 10/07/2023 10:01:31
Sex : Male	Sample Received on : 10/07/2023 11:02:13
P. ID No. : P1000100012539	Report Released on : 20/07/2023 19:16:30
Accession No : 10002304595	Barcode No. : 10002304595-01
Referring Doctor : Self	
Referred By :	Ref no. :

Report Status - Final

Test Name	Result	Biological Ref. Interval	Unit
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BIOCHEMISTRY

Alkaline Phosphatase Isoenzymes

Sample: Serum

Method: Agarose Gel Electrophoresis

Alkaline Phosphatase Isoenzymes			
L1 (Liver)	18.1	%	15-71
L2 (Liver)	1.7	%	1-9
B (Bone)	79.4	%	23-75
I1 (Intestine)	0.8	%	<14
I2 (Intestine)	-	%	<14
I3 (Intestine)	-	%	<14
P1 (Placental)	-	%	
P2 (Placental)	-	%	

Test Observations:

Interpretation :

Liver Isoenzymes : There are two liver isoenzymes, L1 and L2. L1 is increased in some non - malignant diseases (Such as cholestasis, cirrhosis, viral hepatitis and in various biliary and hepatic pathologies). It is also increased in malignancies with hepatic metastasis, in cancer of the lungs and digestive tract and in lymphoma. The L2 fraction exists in healthy subjects at low concentration (< 8 IU/L). An increase of L2 may occur in cholestasis and biliary diseases and in malignancies (e.g. , breast, liver, lung, prostate, digestive tract) with liver metastasis.

Bone Isoenzyme : The bone fraction is interpreted with respect to age. Increase seen in :

- Breast cancer with bone or liver metastasis, Osteosarcoma and lymphoma with or without metastasis • Rheumatismal diseases, hyperparathyroidism, Paget disease and rachitism.
- Transient hyperphosphatasemia in infancy that is associated with a particular liver fraction .
- In such case the total ALP is highly elevated (> 2000 IU/L).
- When associated with an increase of other fraction (e.g. L1, L2) it may indicate malignancy of rectum, Lung and prostate (with bone and



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liver metastasis).

Intestinal Isoenzymes : They are absent in about 60% of normal subjects and when present are less than 14% .

Placental Isoenzyme : Exists as P1 (90%) and P2 (10%). It is found during pregnancy & in some malignant diseases, e.g.:- ovarian cancers, sarcomas, pancreatic & stomach cancers. Increase can be also due to heavy smoking.

** End of Report**



Dr. Aarti Khanna Nagpal

DNB (Pathology)
Senior Consultant

