

ALKALINE  
PHOSPHATASE  
ISOENZYMES,  
SERUM

## Orderable - ALPISO

Turnaround Time: 10 days

### Alternate Name(s):

Alkaline Phosphatase Fractionation  
ALP Isoenzymes

### Specimen:

Adult	Pediatric
5 mL Gold top Vacutainer tube	0-2 years: 0.5 mL Red or Gold top Microtainer 2-10 years: 3 mL Red top Vacutainer tube
Light Green (Li-Heparin) or Lavender (EDTA) top tubes are <b>NOT</b> acceptable	



**Laboratory:**  
Clinical Immunology Lab



**Requisition:**  
GENERAL LABORATORY  
REQUISITION



**Method of Analysis:**  
Sebia gel electrophoresis

### Collection Information:

Minimum volume of serum required is 200 µL.

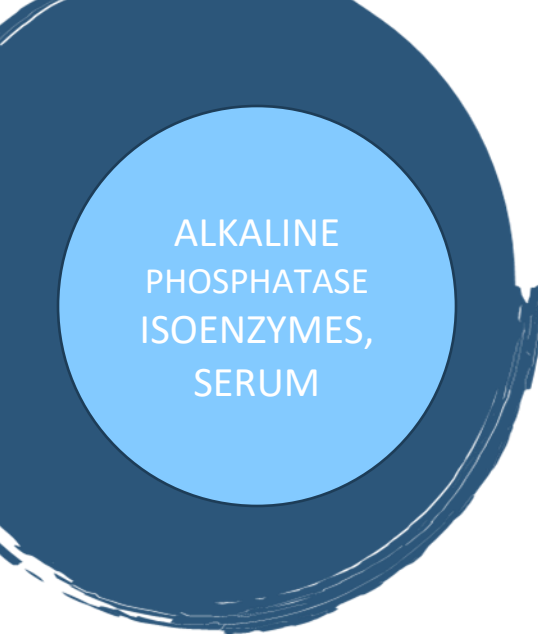
### Reference Ranges:

ALP Isoenzyme Fraction Reference Interval (U/L)

Age	Liver 1	Bone	Liver 2	Intestinal
≤14 days	≤77	≤248	≤17	≤35
15 days-<1 year	≤145	≤469	≤33	≤66
1-<10 years	≤104	≤335	≤23	≤47
10-<13 years	≤129	≤417	≤29	≤58
Male 13-<15 years	≤145	≤468	≤33	≤66
Male 15-<17 years	≤103	≤331	≤23	≤46
Male 17-<19 years	≤46	≤149	≤10	≤21
Male ≥19 years	≤92	≤97	≤12	≤18
Female 13-<15 years	≤79	≤254	≤18	≤36
Female 15-<17 years	≤36	≤117	≤8	≤16
Female 17-<19 years	≤27	≤87	≤6	≤12
Female ≥19 years	≤75	≤77	≤15	≤15



**Test Schedule:**  
Monday-Friday  
0800-1600



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### Interpretive Comments:

1. The reference values of the individual isoenzymes vary with age, sex, hormonal state (pregnancy, menopause, puberty) and medications.
2. In children, ALP is increased due to predominant bone isoenzymes.
3. Intestinal isoenzymes are absent in about 60% of normal subjects
4. Our method does not differentiate Placental ALP from other bands.

### Comments:

If alkaline phosphatase isoenzymes are ordered and it has been  $\leq 15$  days since the collection date of the last sample run, the test will be cancelled. Please monitor using the total alkaline phosphatase result.

### Storage and Shipment:

Store and ship serum frozen.