



# Laboratory Service Manual

**Lab Dept:** Chemistry

**Test Name:** ALKALINE PHOSPHATASE

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## ***General Information***

**Lab Order Codes:** ALK

**Synonyms:** ALK; Alk Phos; Alk Phosphatase; ALP

**CPT Codes:** 84075 – Phosphatase, alkaline

**Test Includes:** Alkaline phosphatase concentration reported in U/L.

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## ***Logistics***

**Test Indications:** Alkaline phosphatase measurements are of particular interest in the investigation of two groups of conditions: hepatobiliary disease and bone disease associated with increased osteoblastic activity.

**Lab Testing Sections:** Chemistry

### **Phone Numbers:**

Minneapolis: 612-813-6280

Saint Paul: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 4 hours

**Special Instructions:** N/A

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## ***Specimen***

**Specimen Type:** Blood

**Container:** Green top(Li Heparin) tube **preferred**  
Alternate tube: Red top (plain, no gel) tube

**Draw Volume:** 0.6 mL blood

**Processed Volume:** 0.2 mL serum/plasma

**Collection:** Routine venipuncture. Mix tubes containing anticoagulant by gentle inversion.



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**Special Processing:** Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a plastic tube. Store at refrigerated temperatures.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimen, improperly collected specimen

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## ***Interpretive***

**Reference Range:**

| <b>Age:</b>    | <b>Males (U/L)</b> | <b>Females (U/L)</b> |
|----------------|--------------------|----------------------|
| 0 – 1 year:    | 126 – 668          | 126 – 610            |
| 1 – 2 years:   | 126 – 460          | 126 – 573            |
| 2 – 7 years:   | 126 – 402          | 126 – 471            |
| 7 – 10 years:  | 42 – 436           | 42 – 488             |
| 10 – 13 years: | 42 – 500           | 42 – 542             |
| 13 – 17 years: | 42 - 504           |                      |
| 13 – 15 years: |                    | 42 – 444             |
| 17 – 19 years: | 42 - 243           |                      |
| 15 – 19 years: |                    | 42 – 168             |
| >19 years:     | 42 – 174           | 42 – 119             |

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Enzymatic 37°C

**References:** ALP Flex® reagent cartridge insert sheet Siemens Healthcare Diagnostics Inc. 2008-04-16 J PN 717015.001 - US

Clinical Significance, Dade Behring Inc., Glasgow Business Community, Mailbox 531, P.O. Box 6101, Newark, Delaware 19714

Biorad Liquichek Unassayed Chemistry Control Product Insert (10/2005) Bio-Rad Laboratories, Irvine, CA 92618