Lab Dept: Chemistry

Test Name: ALKALINE PHOSPHATASE

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.

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:
- MIN Lab: 612-813-6280
- STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 4 hours

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Green top(Li Heparin) tube preferred
Alternate tube: Red, marble or gold top tube, Green (Na Hep) tube

Draw Volume: 0.6 mL blood

Processed Volume: 0.2 mL serum/plasma

Collection: Routine blood collection. Mix tubes containing anticoagulant by gentle inversion.
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

Interpretive

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Lower Limit</th>
<th>Upper Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 14 days:</td>
<td>90 - 273</td>
<td>90 - 273</td>
</tr>
<tr>
<td>15 days – 1 year:</td>
<td>134 – 518</td>
<td>134 – 518</td>
</tr>
<tr>
<td>1 – 9 years:</td>
<td>156 - 369</td>
<td>156 - 369</td>
</tr>
<tr>
<td>10 – 12 years:</td>
<td>141 - 460</td>
<td>141 - 460</td>
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<tr>
<td>13 – 14 years:</td>
<td>127 - 517</td>
<td>62 - 280</td>
</tr>
<tr>
<td>15 – 16 years:</td>
<td>89 - 365</td>
<td>54 - 128</td>
</tr>
<tr>
<td>17 – 18 years:</td>
<td>59 - 164</td>
<td>48 - 95</td>
</tr>
<tr>
<td>Adult:</td>
<td>40 - 150</td>
<td>40 - 150</td>
</tr>
</tbody>
</table>

Critical Values: N/A

Limitations: N/A

Methodology: ABBOTT: Para-nitrophenol phosphate with AMP Buffer

References:
- Architect Alkaline Phosphatase Pkg Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, March 2017
- Alinity Alkaline Phosphatase Pkg Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, December 2017
- Clinical Significance, Dade Behring Inc., Glasgow Business Community, Mailbox 531, P.O. Box 6101, Newark, Delaware 19714

Updates:
- 2/8/2016: Update alt tube types
- 10/18/2019: New backup instrumentation and related reference ranges