ACID PHOSPHATASE (NP) (MONO™)

PRODUCT HIGHLIGHTS
• Mono™ test product.
• Latest technology with fast red TR substrates.
• Sterile autoclavable Micro Centrifuge Tubes used for individual test.
• Pack size suits for Total & Prostatic acid Phosphatase.

WORKING PROCEDURE:

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METHOD

<table>
<thead>
<tr>
<th>REAGENT STABILITY &amp; SPECIMEN</th>
<th>REACTION PARAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepare the working reagent as mentioned on vial label.</td>
<td>Reaction Type</td>
</tr>
<tr>
<td>Working reagent A is stable up to 5 days when stored at</td>
<td>Wavelength</td>
</tr>
<tr>
<td>Working reagent B is stable for at least 3 months</td>
<td>Temperature (Flow cell)</td>
</tr>
<tr>
<td>2–8°C.</td>
<td>Delay Time</td>
</tr>
<tr>
<td>Fresh Serum is essential under fasting conditions with no hemolysis. Plasma is not recommended as oxalate &amp; fluoride anticoagulants will interfere with assay.</td>
<td>Interval Time</td>
</tr>
<tr>
<td>Stabilize the serum with stabilizer so that it can be stable for 3 days.</td>
<td>No of Reading</td>
</tr>
<tr>
<td>Mix immediately &amp; read absorbance of test exactly at 300 secs &amp; monitor till 900 secs with an interval of 60 secs at 405nm. Determine the mean change in absorbance per minute (ΔA/min) &amp; calculate the results.</td>
<td>Reagent A Volume</td>
</tr>
<tr>
<td>Reagent B Volume</td>
<td>0.01ml</td>
</tr>
<tr>
<td>Sample Volume</td>
<td>100 µl</td>
</tr>
<tr>
<td>Factor</td>
<td>860</td>
</tr>
<tr>
<td>Light Path</td>
<td>1.0cm</td>
</tr>
<tr>
<td>Zero Setting</td>
<td>Distilled Water</td>
</tr>
</tbody>
</table>

CALCULATION:

Serum N.ACP Activity(IU/L) = ΔA/min x Factor

Where
F = \frac{T.V \times 1000}{S.V \times E \times P} = 860

Where
T.V = Total Volume
S.V = Sample volume
E = (12.9) Millimolar coefficient of diazo dye
P = Cuvette path length in cm.

Prostatic ACP = T.ACP - N.ACP (U/L)

NORMAL VALUES: 0–2.0 U/L at 37°C. (PROSTATIC ACP) LINEARITY : 80 U/L
ACID PHOSPHATASE (TOTAL) (MONO™)

**PRODUCT HIGHLIGHTS**
- Mono™ test product.
- Latest technology with fast red TR substrates.
- Sterile autoclavable Micro Centrifuge Tubes used for individual test.
- Pack size suits for Total & Prostatic acid Phosphatase.

**METHOD**

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<tr>
<th>REAGENT STABILITY &amp; SPECIMEN</th>
<th>REACTION PARAMETERS</th>
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</thead>
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<tr>
<td>Prepare the working reagent as mentioned on bottle label.</td>
<td>Reaction Type: kinetic/increasing</td>
</tr>
<tr>
<td>Working reagent is stable up to 5 days when stored at 2-8°C.</td>
<td>Temperature (Flow cell): 30°C/37°C</td>
</tr>
<tr>
<td>Fresh Serum is essential under fasting conditions with no hemolysis. Plasma is not recommended as oxalate &amp; fluoride anticoagulants will interfere with assay. Stabilize the serum with stabilizer so that it can be stable for 3 days.</td>
<td>Delay Time: 300 SECS</td>
</tr>
<tr>
<td>Sample Volume: 100 µl</td>
<td></td>
</tr>
<tr>
<td>Factor: 853</td>
<td></td>
</tr>
<tr>
<td>Light Path: 1.0cm</td>
<td></td>
</tr>
<tr>
<td>Zero Setting: Distilled Water</td>
<td></td>
</tr>
</tbody>
</table>

**CALCULATION:**

Serum T.ACP Activity(IU/L) = \( \Delta A/min \times \text{Factor} \)

Where

\[
F = \frac{T.V \times 1000}{S.V \times E \times P} = 853
\]

Where

- T.V = Total Volume
- S.V = Sample volume
- E = (12.9) Millimolar coefficient of diazo dye
- P = Cuvette path length in cm.

**NORMAL VALUES:** 0-6.0 U/L at 37°C.

**LINEARITY:** 80 U/L