Stanbio Laboratory
TDM/β-Hydroxybutyrate Linearity Standards, Ref. No. 2450

For Use as Linearity Stds. in Quantitative Procedures for Acetaminophen, Salicylate, Theophylline, and β-Hydroxybutyrate

Summary and Principle
The Linearity Standards kit contains one set of six levels of standards comprising five concentrations of analytes and zero. These standards are clear solutions containing precisely measured amounts of analytes, such as Acetaminophen, β-Hydroxybutyrate, Salicylate, and Theophylline in an aqueous matrix. Each analyte in the standard solution has been assayed with the corresponding Stanbio Enzymatic Reagent Kit. The targeted values of the standards are indicated in the enclosed chart and the assigned values are on the respective vial labels. The standard's aqueous matrix is free of possible serum infectious matrix.

Reagents
Level 1, Ref. No. 2451 (4mL)
An aqueous matrix containing no analytes.

Level 2, Ref. No. 2452 (4mL)
Measured amounts of Acetaminophen, β-Hydroxybutyrate, Salicylate, and Theophylline in an aqueous matrix.

Level 3, Ref. No. 2453 (4mL)
Measured amounts of Acetaminophen, β-Hydroxybutyrate, Salicylate, and Theophylline in an aqueous matrix.

Level 4, Ref. No. 2454 (4mL)
Measured amounts of Acetaminophen, β-Hydroxybutyrate, Salicylate, and Theophylline in an aqueous matrix.

Level 5, Ref. No. 2455 (4mL)
Measured amounts of Acetaminophen, β-Hydroxybutyrate, Salicylate, and Theophylline in an aqueous matrix.

Level 6, Ref. No. 2456 (4mL)
Measured amounts of Acetaminophen, β-Hydroxybutyrate, Salicylate, and Theophylline in an aqueous matrix.

Precautions: For In Vitro Diagnostic Use.

Storage and Stability: Store unopened vials in refrigerator (2-8°C) until expiration date on label. Discard if turbidity or any change in appearance occurs.

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### Procedure
Gently mix the solution by inversion. The standard is ready for use and should be treated in the same manner as a test serum sample. Replace cap and store at 2-8°C. Use only as directed.

### Expected Values
The assigned values have been obtained with Stanbio Reagents. Users of other test kits have to establish their own values. The constituents of this material may interfere in tests performed with some reagents. Accurate and reproducible results depend on good laboratory technique and upon properly functioning instruments.

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Levels</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
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<tbody>
<tr>
<td>Acetaminophen (mg/L)</td>
<td></td>
<td>0</td>
<td>38</td>
<td>75</td>
<td>150</td>
<td>300</td>
<td>600</td>
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<tr>
<td>β-Hydroxybutyrate (mM)</td>
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<td>0.5</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>8</td>
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<tr>
<td>Salicylate (mg/L)</td>
<td></td>
<td>0</td>
<td>63</td>
<td>125</td>
<td>250</td>
<td>500</td>
<td>1000</td>
</tr>
<tr>
<td>Theophylline (mg/L)</td>
<td></td>
<td>0</td>
<td>2.5</td>
<td>5</td>
<td>10</td>
<td>20</td>
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