Clinical Laboratory Test Update

Lacosamide, Oxcarbazepine Metabolite, Topiramate, Zonisamide by LCMS

Effective May 16, 2022, the University of Colorado Hospital Clinical Laboratory will begin Lacosamide, Oxcarbazepine Metabolite, Topiramate, and Zonisamide anti-epileptic drug (AED) testing by Liquid Chromatography Mass Spectroscopy (LCMS).

<table>
<thead>
<tr>
<th>Test name</th>
<th>Lacosamide</th>
<th>Oxcarbazepine Metabolite</th>
<th>Topiramate</th>
<th>Zonisamide</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAP</td>
<td>LAB3459</td>
<td>LAB4312</td>
<td>LAB498</td>
<td>LAB504</td>
</tr>
<tr>
<td>Collect</td>
<td>One 6 mL plain red top tube, no gel</td>
<td></td>
<td></td>
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<tr>
<td>Storage/Transport</td>
<td>Internal: Deliver to lab immediately.</td>
<td>Offsite: Allow 30 minutes for red top to clot before centrifuging. Centrifuge within 2 hours of collection. Place at least 0.5 mL serum in aliquot container and send to lab refrigerated/on ice (2-8 °C). <strong>NOTE:</strong> Only one aliquot is needed, even if multiple tests are ordered.</td>
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<tr>
<td>Stability</td>
<td>Prior to centrifugation: Ambient, 2 hours. Serum aliquot: Ambient, 6 weeks, Refrigerated (2-8 °C), 6 weeks; Frozen (-20 °C): 6 weeks</td>
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<tr>
<td>Method</td>
<td>Liquid Chromatography – Tandem Mass Spectrometry (LCMS)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Performed</td>
<td>Monday, Wednesday, Friday</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Reported</td>
<td>1-2 days</td>
<td></td>
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<tr>
<td>Reference Interval</td>
<td>Therapeutic range suggested, not well established: 1.0 – 10.0 µg/mL</td>
<td>Therapeutic range: 10.0 – 35.0 µg/mL</td>
<td>Therapeutic range: 5.0 – 20.0 µg/mL</td>
<td>Therapeutic range: 10.0 – 40.0 µg/mL</td>
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<td></td>
<td>Toxic range: &gt; 20.0 µg/mL</td>
<td>Toxic range: &gt; 40 µg/mL</td>
<td>Toxic range: not well established</td>
<td>Toxic range: &gt; 80 µg/mL</td>
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<tr>
<td>CPT</td>
<td>80235</td>
<td>80183</td>
<td>80201</td>
<td>80203</td>
</tr>
</tbody>
</table>

Please contact Geza Bodor, MD at 720-848-6032 if you have any questions, or visit our website at [https://www.testmenu.com/universityhospital](https://www.testmenu.com/universityhospital) for additional information.

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