Quarterly HOTLINE: Effective November 13, 2017

2002736  Tramadol and Metabolite, Urine, Quantitative

Reference Interval:
Effective Month Day, Year

<table>
<thead>
<tr>
<th>Drugs Covered</th>
<th>Cutoff Concentrations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tramadol</td>
<td>50 ng/mL</td>
</tr>
<tr>
<td>O-desmethyltramadol (qualitative only)</td>
<td>100 ng/mL</td>
</tr>
</tbody>
</table>

Methodology: Quantitative Liquid Chromatography-Tandem Mass Spectrometry

Positive cutoff:
Tramadol: 50 ng/mL
O-desmethyltramadol: 100 ng/mL

For medical purposes only; not valid for forensic use.

The presence of metabolite(s) without parent drug is common and may indicate use of parent drug during the prior week.

The absence of expected drug(s) and/or drug metabolite(s) may indicate non-compliance, inappropriate timing of specimen collection relative to drug administration, poor drug absorption, diluted/adulterated urine, or limitations of testing. The concentration value must be greater than or equal to the cutoff to be reported as positive. Interpretive questions should be directed to the laboratory.

See Compliance Statement B: www.aruplab.com/CS

HOTLINE NOTE: There is a component change associated with this test.
Remove component 2002737, N-desmethyltramadol, Urn, Qual