## Analysis and Comments

### 9562U Synthetic Cannabinoid Metabolites Screen - Expanded (2019 Scope), Urine

Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Result</th>
<th>Units</th>
<th>Reporting Limit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-carboxy-AMB-PINACA</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>5.0</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): AB-PINACA N-pentanoic acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FUBICA 3,3-dimethylbutanoic acid</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): MDMB-FUBICA Metabolite 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-fluoro-PINAC-ACID</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>5.0</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): 5F-NPB-22-Carboxyindazole</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-carboxy-CUMYL-BINACA</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>0.20</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): CUMYL-BUTINACA N-Butanoic Acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-fluoro-PIC-ACID</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>5.0</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): 5-Fluoro-PB-22 3-Carboxyindole</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FUBIC-ACID</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): FUB-PB-22 Carboxyindole</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-fluoro-PINACA 3-methylbutanoic acid</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>0.20</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): 5F-AMB 3-methyl-butanoic acid; 5F-AMB M7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Results for sample 20000316-001 are continued on next page
<table>
<thead>
<tr>
<th>Analysis and Comments</th>
<th>Result</th>
<th>Units</th>
<th>Reporting Limit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUBINACA 3-methylbutanoic acid</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): FUB-AMB 3-methyl-butanoic acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-fluoro-PINACA 3,3-dimethylbutanoic acid</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>0.20</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): 5F-ADB 3,3-dimethyl-butanoic acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FUBINACA 3,3-dimethylbutanoic acid</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): MDMB-FUBINACA M1; MDMB-FUBINACA 3,3-dimethyl-butanoic acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHMINACA-3-methylbutanoic acid</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): AB-CHMINACA 3-methyl-butanoic acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-carboxy-NA-PIM</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>0.20</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): JWH-018 N-pentanoic acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHMINACA 3,3-dimethylbutanoic acid</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>0.20</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): ADB-CHMINACA M2, MAB-CHMINACA M2; ADB-CHMINACA 3,3-dimethyl-butanoic acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHMIC-ACID</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>5.0</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): BB-22 3-Carboxyindole</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-fluoro-PICA 3,3-dimethylbutanoic acid</td>
<td>None Detected</td>
<td>ng/mL</td>
<td>0.20</td>
<td></td>
</tr>
<tr>
<td>Synonym(s): 5F-MDMB-PICA metabolite 7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This test was developed and its performance characteristics determined by NMS Labs. It has not been cleared or approved by the US Food and Drug Administration.