**Catalog number**
Mouse Total Bile Acids Assay Kit..........................80470

**Intended use**
A high quality enzymatic assay for the quantification of mouse total bile acids in serum and plasma.

**Test principle**
Crystal Chem’s Mouse Total Bile Acids Assay Kit is based on enzymatic technology that utilizes the unique enzymatic property of 3-α hydroxy-steroid dehydrogenase (3-α HSD). In the presence of NAD, the bile acids are converted into 3-keto steroids and NADH. The NADH formed reacts with nitrotetrazolium blue (NBT) to form a dye. The dye formation is monitored by measuring absorbance at 540nm and is directly proportional to the bile acids concentration in the mouse samples.

**Specifications**

<table>
<thead>
<tr>
<th>Sample Types</th>
<th>Serum, Plasma</th>
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</thead>
<tbody>
<tr>
<td>Assay Time</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Range</td>
<td>0 - 180 µmol/L</td>
</tr>
<tr>
<td>Sample Size</td>
<td>20 µL</td>
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<tr>
<td>Precision</td>
<td>CV &lt; 10%</td>
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</tbody>
</table>

**Highlights**
- Kits use only 20 µL sample
- Fast assay time (15 minutes)
- Protocols for live and feces available
- Optimized for mouse samples

**Summary of protocol**

1. Add 20 µL of sample
2. Add 150 µL NBT solution
3. Incubate for 5 minutes at 37 °C
4. Measure OD at 540 nm
5. Add 30 µL 3-α HSD solution
6. Incubate for 5 minutes at 37 °C
7. Measure OD at 540 nm

**Optional Control**
Control for Mouse Total Bile Acids Assay Kit……Cat# 80473
Useful for validating the calibration curve when running that assay for the first time or in a novel way.