**Product Datasheet**

**Catalase Activity Assay Kit (Colorimetric/Fluorometric) ab83464**

★★★★★ 2 Abreviews  27 References  2 Images

**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Catalase Activity Assay Kit (Colorimetric/Fluorometric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection method</td>
<td>Colorimetric/Fluorometric</td>
</tr>
<tr>
<td>Sample type</td>
<td>Urine, Serum, Plasma, Cell Lysate, Tissue Lysate</td>
</tr>
<tr>
<td>Assay type</td>
<td>Enzyme activity (quantitative)</td>
</tr>
<tr>
<td>Assay time</td>
<td>0h 40m</td>
</tr>
<tr>
<td>Product overview</td>
<td>Catalase Activity Assay Kit (Colorimetric/Fluorometric) (ab83464) is a highly sensitive, simple and direct assay for measuring catalase activity in a variety of biological samples such as cell and tissue lysates or biological fluids.</td>
</tr>
</tbody>
</table>

In the catalase activity assay protocol, the catalase present in the sample reacts with hydrogen peroxide (H$_2$O$_2$) to produce water and oxygen. The unconverted H$_2$O$_2$ reacts with probe to produce a product that can be measured colorimetrically at OD 570 nm or fluorometrically at Ex/Em = 535/587 nm. Therefore, the catalase activity present in the sample is reversely proportional to the signal obtained. The kit can detect as little as 1 µU of catalase activity.

**Catalase activity assay protocol summary:**
- add samples and standards to wells
- add stop solution into sample control wells and incubate at 25°C for 5 min
- add H$_2$O$_2$ solution into wells and incubate for 30 min at 25°C
- add stop solution
- add developer mix and incubate for 10 min at 25°C
- analyze with microplate reader

**Platform**

Microplate reader

**Properties**

**Storage instructions**

Store at +4°C. Please refer to protocols.

**Components**

<table>
<thead>
<tr>
<th>Components</th>
<th>Identifier</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalase Assay Buffer</td>
<td>NM</td>
<td>1 x 25ml</td>
</tr>
</tbody>
</table>
Functional Studies - Catalase Assay Kit (ab83464)

Sample tests using ab83464.

H₂O₂ standard curve using ab83464.

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