**Product datasheet**

**Cytochrome C Oxidase Assay Kit ab239711**

### Overview

**Product name**  
Cytochrome C Oxidase Assay Kit

**Detection method**  
Colorimetric

**Sample type**  
Cell culture supernatant, Tissue, Cell Lysate, Tissue Lysate

**Product overview**  
Cytochrome C Oxidase Activity Assay Kit (ab239711) is simple, fast and high-throughput adaptable. This assay kit can be used for purified mitochondria or tissue extracts containing mitochondria. The kit provides for the fast and simple measurement of Cytochrome c oxidase activity on a 96-well plate format. The activity of the enzyme is determined colorimetrically by following the oxidation of reduced Cytochrome c as an absorbance decrease at 550 nm.

### Notes

**Range of complex IV / cytochrome c oxidase assay kits**

- Biochemical assay - [ab239711](https://www.abcam.com/product/ab239711) (this kit)
- Immunocapture with biochemical assay (plate-based)*** - [ab109911](https://www.abcam.com/product/ab109911) (rodent) and [ab109909](https://www.abcam.com/product/ab109909) (human)
  
  *** Most popular assay format
- Immunocapture with biochemical assay (dipstick) - [ab109878](https://www.abcam.com/product/ab109878) (rodent) and [ab109876](https://www.abcam.com/product/ab109876) (human)
- Immunocapture with biochemical assay and ELISA - [ab109910](https://www.abcam.com/product/ab109910) (human)
- ELISA - [ab179880](https://www.abcam.com/product/ab179880) (human)

### Other related products

Review the [mitochondrial assay guide](https://www.abcam.com/product/ab239711), or the full [metabolism assay guide](https://www.abcam.com/product/ab239711) to learn about more assays for metabolites, metabolic enzymes, mitochondrial function, and oxidative stress, and also how to assay metabolic function in live cells using your plate reader.

### Platform

Microplate reader

### Properties

**Storage instructions**  
Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 M DTT</td>
<td>1 x 1ml</td>
</tr>
<tr>
<td>96-well Plate</td>
<td>1 unit</td>
</tr>
</tbody>
</table>
Cytoschrome Oxidase Activity

Purified mitochondria were used to calculate a decrease in OD at 550 nm (0.625-5 µg/reaction). In Blank, no change in the OD was observed. Rate is calculated by subtracting the initial OD reading from the final OD, t1 and t2 represents linear rate of reaction.

<table>
<thead>
<tr>
<th>Components</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cytochrome c</td>
<td>2 vials</td>
</tr>
<tr>
<td>Cytochrome Oxidase Assay Buffer</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>Enzyme Dilution Buffer</td>
<td>1 x 8ml</td>
</tr>
</tbody>
</table>

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