**Overview**

**Product name**
Aldehyde Quantification Assay Kit (Colorimetric)

**Sample type**
Saliva, Plasma, Cell culture extracts, Adherent cells, Suspension cells

**Assay type**
Quantitative

**Species reactivity**
Reacts with: Human

**Product overview**

ab112113 Aldehyde Quantification Assay Kit (Colorimetric) uses a proprietary dye that generates a chromogenic product upon reacting with an aldehyde. Most of the existing aldehyde test methods are based on separations either by the tedious and expensive HPLC-MS or GC-MS. ab112113 provides a sensitive, one-step colorimetric method to detect as little as 1 nanomole of aldehyde in a 100 µL assay volume (10 µM). The assay can be performed in a convenient 96-well or 384-well microtiter-plate format and readily adapted to automation without a separation step. Its signal can be easily read with an absorbance microplate reader at 405 or 550 nm. This kit has been used for monitoring activities of oxidases that convert an amino group to an aldehyde group.

Visit our FAQs page for tips and troubleshooting.

**Notes**
ab112113 should be stored desiccated.

**Tested applications**
Suitable for: Functional Studies

**Properties**

**Storage instructions**

Store at -20°C. Please refer to protocols.

**Components**

<table>
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<tr>
<th>Component</th>
<th>200 tests</th>
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</thead>
<tbody>
<tr>
<td>Aldehyde Standard</td>
<td>1 vial</td>
</tr>
<tr>
<td>Assay Buffer</td>
<td>1 x 10ml</td>
</tr>
<tr>
<td>Dilution Buffer</td>
<td>1 x 20ml</td>
</tr>
<tr>
<td>Yellow Indicator</td>
<td>2 units</td>
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Applications

Our Abpromise guarantee covers the use of ab112113 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>Use at an assay dependent concentration.</td>
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Images

Standard curve: mean of duplicates (± SD) with background reads subtracted

Functional Studies - Aldehyde Quantification Assay Kit (Colorimetric) (ab112113)

Standard curve: mean of duplicates (± SD) with background reads subtracted

Functional Studies - Aldehyde Quantification Assay Kit (Colorimetric) (ab112113)
Aldehyde measured in biological fluids showing quantity (µM) per mL of tested sample. Values calculated based on the 550 nm Standard Curve. Samples diluted 1-10 fold.

Aldehyde measured in cell culture supernatants showing quantity (µM) per mL of tested sample. Values calculated based on the 405 nm Standard Curve. Samples diluted 2 fold.

Aldehyde measured in cell lysates showing quantity (µM) per 1 mln cells. Values calculated based on the 550 nm Standard Curve.

Samples with the concentration of 1.26e8 cells/mL (HeLa) and 1e8 cells/mL (HepG2) were used. Samples were diluted 3 fold.
Aldehyde dose response was measured in a 96-well black plate with ab112113. As low as 10 µM (1 nanomol/well) of aldehyde can be detected with 30 minutes incubation (n=3). Standard curve was read at 405 nm.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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