

<b>E2041126P1 – Choline Oxidase</b>		
Choline + O <sub>2</sub>	Choline oxidase →	Betaine Aldehyde + H <sub>2</sub> O <sub>2</sub>
Betaine Aldehyde + O <sub>2</sub> + H <sub>2</sub> O	Choline oxidase →	Betaine + H <sub>2</sub> O <sub>2</sub>

## PRODUCT APPLICATION

Choline oxidase has been successfully used in total choline detection, for enzymatic determination of phospholipids when coupled with phospholipase D and for choline esterase activity for clinical analysis.

## PRODUCT BENEFITS

The choline oxidase unstabilised is a more economical viable product in our range.

## STABILITY DATA

Stable for 6 months at -20°C.

## STABILISER INFORMATION

This enzyme can be stabilised using Q2090625D11 stabiliser solution from Applied Enzyme Technology Ltd.

The solution is delivered in double strength to be added to the unstabilised enzyme in buffer solution. For more information on our range of stabiliser solutions please contact our sales representative.

## PHYSICAL PROPERTIES

Choline Oxidase	EC: 1.1.3.17
Source	<i>Ex Arthrobacter globiformis</i>
Appearance	Dry yellow powder
Form supplied	Dry unstabilised powder
Contaminant:	<0.002% U/U Glucose oxidase
Quality Control	Activity determined by spectrophotometric assay
Storage	-20°C

<b>Unit Definition</b>	One unit is defined as the amount of enzyme that will form 1.0µmole of H <sub>2</sub> O <sub>2</sub> from the oxidation of 1µmole of choline to betaine aldehyde per minute at pH 8.0 at 37°C.
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## SAFETY AND HANDLING

Read the Material Safety Data Sheets (MSDS) and product labels before using the products.

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All values reported here are results of experiments conducted in our laboratories and are intended to illustrate the products performance. They are not intended to represent the products specifications