

## Uricase from *Candida utilis*, Recombinant

### Product Information

<b>Cat#</b>	DIA-404
<b>Similar</b>	UO
<b>Source</b>	Escherichia coli
<b>Description</b>	The enzyme urate oxidase (UO), or uricase or factor-independent urate hydroxylase, absent in humans, catalyzes the oxidation of uric acid to 5-hydroxyisourate: Uric acid + O <sub>2</sub> + H <sub>2</sub> O → 5-hydroxyisourate + H <sub>2</sub> O <sub>2</sub> → allantoin + CO <sub>2</sub>
<b>Activity</b>	> 6 U/mg
<b>CAS No.</b>	9002-12-4
<b>Unit Definition</b>	One unit of activity is defined as the amount of enzyme that will transform of 1.0 micromole of substrate per minute at 25°C under standard assay method conditions.
<b>Synonyms</b>	urate oxidase; uric acid oxidase; uricase; uricase; urate: oxygen oxidoreductase; EC 1.7.3.3; uricase II
<b>Enzyme Commission Number</b>	EC 1.7.3.3
<b>pH Stability</b>	7.6 to 10.0
<b>Optimum pH</b>	8.5
<b>Optimum temperature</b>	55°C
<b>Thermal stability</b>	Stable at 55°C and below.
<b>Abbr</b>	UO, Recombinant ( <i>Candida utilis</i> )
<b>Applications</b>	Used in the enzymatic determination of uric acid.
<b>Appearance</b>	White to cream powder
<b>Molecular Weight</b>	34kDa (SDS-PAGE)

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<b>Species</b>	<i>Candida utilis</i>
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