

## Native Uricase (UA-R) from Microorganism

### Product Information

<b>Cat#</b>	BDE-017
<b>Specification</b>	2 KU, 10 KU, 100 KU, 500 KU
<b>Description</b>	Uricase (UA-R) specifically degrades uric acid and serves as a fundamental tool for clinical uric acid testing and gout-related research.
<b>Applications</b>	Used in uric acid assay kits, suitable for routine biochemical analysis systems.
<b>Enzyme Commission Number</b>	EC 1.7.3.3
<b>Form</b>	White amorphous lyophilized powder
<b>Source</b>	Microorganism
<b>Activity</b>	≥ 20 U/mg
<b>Unit Definition</b>	One unit is defined as the amount of enzyme required to oxidize 1 μmol of uric acid per minute under specified assay conditions.
<b>Molecular Weight</b>	40 kDa (SDS-PAGE)
<b>Purity</b>	≥ 90%
<b>Optimum pH</b>	8.5
<b>Optimum temperature</b>	37°C
<b>pH Stability</b>	5.5-10.0 (25°C, 16 h)
<b>Thermal Stability</b>	< 60°C (pH 8.5, 30 min)
<b>Isoelectric Point</b>	5.1
<b>Km Value</b>	2.1×10 <sup>-5</sup> M (Urate)
<b>Inhibitors</b>	Fe <sup>3+</sup> , Co <sup>2+</sup> , Cu <sup>2+</sup> , Mn <sup>2+</sup> , Zn <sup>2+</sup>
<b>Protectant</b>	Borates, EDTA, and nonionic surfactants



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## **Native Uricase (UA-R) from Microorganism**

**Storage**

Store at -25°C to -15°C for 12 months to maintain at least 80% activity.

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