



Creative Enzymes

Diagnostic Enzymes

Native Creatinine Amidohydrolase from Microorganism

Product Information

Cat#	BDE-014
Description	Creatinine Amidohydrolase specifically hydrolyzes creatinine and serves as the key initiating enzyme in the enzymatic assay for creatinine.
Applications	Used in creatinine enzymatic assay kits to specifically hydrolyze creatinine into creatine.
CAS No.	9025-13-2
Enzyme Commission Number	EC 3.5.2.10
Form	White to pale yellow amorphous lyophilized powder
Source	Microorganism
Activity	≥ 400.0 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to catalyze the production of 1 μmol of creatine per minute under specified assay conditions.
Molecular Weight	29 kDa (SDS-PAGE)
Purity	≥ 90% by SDS-PAGE
Optimum pH	7.0-8.0
Optimum temperature	65°C
pH Stability	5.5-10.0 (25°C, 16 h)
Thermal Stability	< 65°C (pH 8.0, 30 min)
Isoelectric Point	5.3
Km Value	5.0×10 ⁻² M (Creatinine), 8.0×10 ⁻² M (Creatine)
Inhibitors	Hg ²⁺ , Cu ²⁺ , Fe ³⁺
Protectant	Carbohydrates and BSA

Tel: 1-631-562-8517 1-516-512-3133

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Storage

Store at -25°C to -15°C for 12 months to maintain at least 90% activity.

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