

DIAGNOSTIC ENZYMES

**CREATININE AMIDOHYDROLASE — CNH-211
FROM PSEUDOMONAS SP. EC (3.5.2.10)****SPECIFICATIONS**

Appearance	White amorphous powder lyophilized
Activity	Grade II 450 U/mg-solid or more
Contaminant	NADH oxidase $\leq 5.0 \times 10^{-2}$ % Catalase ≤ 2.0 %
Stabilizers	Sucrose, BSA
Stability	Stable at -20°C for at least 6 months
Molecular weight	approx. 175,000
Isoelectric point	4.7
Michaelis constants	3.2×10^{-2} M (Creatinine), 5.7×10^{-2} M (Creatine)
Structure	8 subunits per mol of enzyme (One mol of zinc is bound to each subunit)
Inhibitors	Ag^+ , Hg^{2+} , N-bromosuccinimide, EDTA
Optimum pH	6.5—7.5
Optimum temperature	70°C
pH Stability	pH 7.5—9.0 (5°C , 16hr)
Thermal stability	below 70°C (pH 7.5, 30min)

CONTACTS

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APPLICATIONS

This enzyme is used for enzymatic determination of creatinine when coupled with creatine amidinohydrolase (CRH-211, CRH-221), sarcosine dehydrogenase or sarcosine oxidase (SAO-341) and formaldehyde dehydrogenase (FRD-201) in clinical analysis.