Activity Assay of Proteinase K

Substrate: Azo-Casein 2% in water (0.02% sodium azide)

Standard: Proteinase K (Sigma) P2308
BioUltra, for molecular biology, ≥30 units/mg protein, lyophilized powder

Unit def.

One unit will hydrolyze urea-denatured hemoglobin to produce color equivalent to 1.0 μ mole of tyrosine per min at pH 7.5 at 37 °C (color by Folin-Ciocalteu reagent).

![Graph showing the relationship between Sigma standard PK and Abs 440 with the equation y = 0.2601x + 0.0076 and R² = 0.99431.]

Proteinase K A&A Biotechnology

Lot: 300312

Specific activity: 31.43 +/- 0.42 /mg of protein

Activity per 1 mg of powder: 30.23 +/- 0.12 /mg of powder

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