



Certificate of analysis

assayed by:	xxxxxxx	date:	XX/XX/XXXX
approved by:	xxxxxxx	date:	XX/XX/XXXX

Product	Proteinase K IVD
LOT	XXXXXX
Expiration date	XX/XXXX
Storage	2-8 °C
Appearance	white powder
Solubility	50 mg/ml in water
Origin	Recombinant
Activity	≥ 30 U/mg
Unit definition	One unit will hydrolyze urea-denatured hemoglobin to produce color equivalent to 1.0 μmole of tyrosine per min at pH 7.5 at 37 °C (color by Folin-Ciocalteu reagent).
Assay Conditions for Proteinase K activity test	<ul style="list-style-type: none"> • Temperature: 37 °C, A750 • Reaction volume: 900 μl • Substrate Solution: 2% Hemoglobin with 6M Urea pH 7.5 • Spectrophotometer: Eppendorf Biospectrometer
Endonuclease activity	assay passed/not detected
Exonuclease activity	assay passed/not detected
RNase activity	assay passed/not detected
Bacterial DNA	assay passed/not detected
Host DNA	assay passed/not detected
References	Folin, O., and Ciocalteu, V., J. Biol. Chem., 73, 627-650 (1927). Enzymatic Assay of Proteinase K (EC 3.4.21.64) Sigma Protocols

