Biomatik
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Certificate of Quality

Product Name: **Proteinase K**

Tritirachium album. One unit of Proteinase K hydrolyzes urea-denaturated hemoglobin producing color equivalent of 1 µmol tyrosine per 1 min at 37°C and pH = 7.5 (Folin & Ciocalteu's method), 1 U = 1 mAnsonU.

Product Code:	A3650	CAS #:	39450-01-06
Grade:	Biotechnology	Formula:	N/A
Appearance:	White lyophilzed powder	MW:	28,500 Da
Reassay Date:	2 years after shipping date	Lot#:	See product label
Storage:	-20°C for long term. Store in tightly sealed vial. Allow to come to room temperature before opening. Stock solution: 50 mM Tris-HCl, pH = 7.8; 5 mM CaCl2; 50% glycerol		

TEST	SPECIFICATION	RESULT
Activity (dry weight)	≥ 30 U/mg material	Passes
Activity (protein)	≥ 40 U/mg protein	Passes
Protein content	≥ 70%	Passes
DNA content (qPCR)	≤ 10 pg/mg	Passes
Solubility in water	≥ 20 mg/ml	Passes
Exonucleases	None	None Detected
Endonucleases	None	None Detected
Ribonucleases	None	None Detected

Data Verified by M. He. Verification Date: 2020-01-06