

Proteinase K

1 Contents

Proteinase K			
Cat. No.	740506	740506.75	740506.30
Proteinase K (lyophilized)	100 mg (2 x 50 mg)	75 mg	30 mg
Proteinase Buffer (PB)	8 ml	3.6 ml	1.8 ml

2 Product description

Proteinase K is delivered with a stabilizing solution (Proteinase Buffer, PB) enabling storage for up to six months at 4°C without decrease of proteinase activity. Stability is considerably increased if Proteinase K is dissolved in Proteinase Buffer compared to Proteinase K dissolved in water. Proteinase Buffer is compatible with NucleoSpin® and NucleoBond® kits and also suitable for most other applications.

Note: NucleoSpin® or NucleoBond® kits may require different Proteinase K stock solution concentrations (e.g. NucleoSpin® Tissue: 20 mg/ml; NucleoSpin® 8/96 Tissue: 29 mg/ml). See individual protocols for detailed information.

3 Proteinase K specification

Source: *Tritirachium album*

Form: 2 x 50 mg/ 75 mg/ 30 mg,
white freeze-dried material

Activity: > 2,5 U/mg material (Casein, 37°C)

Solubility: Dissolves readily at 20 mg/ml in analytical grade water or PB to give a clear colourless solution.

DNA content: < 2 ppm

Contaminating deoxyribonuclease:

corresponds (No degradation of genomic DNA observed after incubation for at least 6 h at 37°C in a typical restriction digest buffer: 33 mM Tris-acetate, pH 7.9, 10 mM magnesium acetate, 66 mM potassium acetate, 0.1 mg/ml BSA).

4 Storage conditions and preparation of working solution


Lyophilized Proteinase K and Proteinase Buffer (PB) can be stored at room temperature (20-25°C) and are stable up to one year.

Add the indicated volume of **Proteinase Buffer** to dissolve lyophilized **Proteinase K**. Proteinase K solution is stable at +4°C for up to 6 months. Storage at -20°C is recommended if the solution will not be used up during this period.

Proteinase K			
Cat. No.	740506	740506.75	740506.30
Proteinase K (lyophilized)	2 x 50 mg add 2.5 ml Proteinase Buffer to each vial	75 mg add 2.6 ml Proteinase Buffer	30 mg add 1.35 ml Proteinase Buffer

5 Safety instructions – risk and safety phrases

Proteinase K contains hazardous contents. Wear gloves and goggles!

Component	Hazard Contents	Hazard Symbol	Risk Phrases	Safety Phrases
Proteinase K	Proteinase K, lyophilized	 Xn, Xi*	R 36/37/38-42	S 22-24-26-36/37

Risk Phrases

R 36/37/38 Irritating to eyes, respiratory system and skin

R42 May cause sensitization by inhalation

Safety Phrases

S 22 Do not breathe dust

S 24 Avoid contact with the skin

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 36/37 Wear suitable protective clothing and gloves

* Label not necessary, if quantity below 125 g or ml (according to 67/548/EEC Art. 25, 1999/45/EC Art. 12 and German GefStoffV § 42 an TRGS 200 7.1)

6 Service Bioanalysis

Technical support and customer service

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