

Proteinase K

1 Contents

Proteinase K			
REF	740506	740506.75	740506.30
Proteinase K (lyophilized)	100 mg (2 x 50 mg)	75 mg	30 mg
Proteinase Buffer PB	8 mL	8 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 -20 °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 specifications

Source:	<i>Tritirachium album</i>
Form:	2 x 50 mg / 75 mg / 30 mg, white freeze-dried material
Activity:	> 2.5 U/mg material (Casein, 37 °C)
Solubility:	Readily soluble in a concentration of 20 mg/mL in analytical grade water or PB
DNA content:	content: < 2 ppm
Contaminating deoxyribo- nuclease:	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 (18–25 °C) and are stable up to one year.

Add the indicated volume of Proteinase Buffer PB to dissolve lyophilized Proteinase K in order to obtain a 20 mg/mL solution. Proteinase K solution is stable at -20 °C for up to 6 months.


See the individual protocols for detailed information, if other concentrations are required.

Proteinase K			
REF	740506	740506.75	740506.30
Proteinase K (lyophilized)	2 x 50 mg	75 mg	30 mg
	Add 2.5 mL Proteinase Buffer PB to each vial	Add 3.75 mL Proteinase Buffer PB	Add 1.5 mL Proteinase Buffer PB

5 Safety instructions

Proteinase K contains hazardous contents. Wear gloves and goggles!

5.1 Risk and safety phrases

Component	Hazard contents	Hazard symbol	Risk phrases	Safety phrases
Inhalt	Gefahrstoff	Gefahrstoffsymbol	R-Sätze	S-Sätze
Proteinase K	Proteinase K, lyophilized <i>Proteinase K, lyophilisiert</i>	 Xn	R 36/37/38-42	S 22-24-26-36/37

Risk phrases

- R 36/37/38 Irritating to eyes, respiratory system, and skin.
Reizt die Augen, Atmungsorgane und die Haut.
- R 42 May cause sensitization by inhalation.
Sensibilisierung durch Einatmen möglich.


Safety phrases

- S 22 Do not breathe dust.
Staub nicht einatmen.
- S 24 Avoid contact with the skin.
Berührung mit der Haut vermeiden.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Bei Berührung mit den Augen gründlich mit Wasser abspülen und Arzt konsultieren.
- S 36/37 Wear suitable protective clothing and gloves.
Bei der Arbeit geeignete Schutzhandschuhe und Schutzkleidung tragen.

5.2 GHS classification

Only harmful features must not be labeled with H and P phrases until 125 mL or 125 g.

Mindergefährliche Eigenschaften müssen bis 125 mL oder 125 g nicht mit H- und P-Sätzen gekennzeichnet werden.

Component	Hazard contents	GHS symbol	Hazard phrases	Precaution phrases
Inhalt	Gefahrstoff	GHS Symbol	H-Sätze	P-Sätze
Proteinase K	Proteinase K, lyophilized <i>Proteinase K, lyophilisiert</i>	 Danger Gefahr	334	261-304+341-342+311

Hazard phrases

- H 334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Kann bei Einatmen Allergie, asthmaartige Symptome oder Atembeschwerden verursachen.

Precaution phrases

- P 261 Avoid breathing dust.
Einatmen von Staub vermeiden.
- P 304+341 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
Bei Einatmen: Bei Atembeschwerden an die frische Luft bringen und in einer Position ruhigstellen, die das Atmen erleichtert.
- P 342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Bei Symptomen der Atemwege: Giftinformationszentrum oder Arzt anrufen.

For further information please see Material Safety Data Sheets (www.mn-net.com).

Weiterführende Informationen finden Sie in den Sicherheitsdatenblättern (www.mn-net.com).