

## 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

<b>Source:</b>	<i>Tritirachium album</i>
<b>Form:</b>	2 x 50 mg / 75 mg / 30 mg, white freeze-dried material
<b>Activity:</b>	> 2.5 U/mg material (Casein, 37 °C)
<b>Solubility:</b>	Readily soluble in a concentration of 20 mg/mL in analytical grade water or PB
<b>DNA content:</b>	content: < 2 ppm
<b>Contaminating deoxyribo-nuclease:</b>	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!

**GHS classification**

Only harmful features do not need to be labeled with H and P phrases up to 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+340, 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+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
*BEI EINATMEN: 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/ doctor/...  
*Bei Symptomen der Atemwege: GIFTINFORMATIONSZENTRUM /Arzt/... anrufen.*

For further information please see Material Safety Data Sheets ([www.mn-net.com](http://www.mn-net.com)).

*Weiterführende Informationen finden Sie in den Sicherheitsdatenblättern ([www.mn-net.com](http://www.mn-net.com)).*

**6 Product use restriction / warranty**

**Proteinase K** is developed, designed, and sold for research purpose only. All goods have to be checked immediately upon receipt. Damage claims are only acceptable in writing within 8 working days of receipt of all the goods. In case of legitimate claims the buyer can only require replacement of the goods. If replacement is not possible, the buyer has the right to choose between alternative products with same value or refund. The buyer cannot claim further compensation. All returns must first be authorized by us in writing. We offer a one year warranty from date of delivery that our products will conform to applicable specifications set forth in the product specifications if not sold to persons set forth in § 13 of German Civil Code. In such a case, the provisions of the German Civil Code shall be valid.

This warranty does not cover defects in or damage to the products which are due to improper installation or maintenance, misuse, neglect or any use other than ordinary commercial application.

Any discharge from liability will be void if a defect results from a heavily negligent or intentional breach of contract or if the buyer will be bodily injured as a result from a negligent or intentional breach.

The seller shall not be liable for the goods being fit for a particular purpose unless otherwise agreed upon, to which the buyer intends to put them.

This warranty is strictly exclusive. Any further damage compensation is impossible.

MACHEREY-NAGEL MAKES no other warranty of any kind whatsoever, and SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES OF ANY KIND OR NATURE WHATSOEVER; DIRECTLY OR INDIRECTLY; EXPRESS OR IMPLIED; INCLUDING; WITHOUT LIMITATION; AS TO THE SUITABILITY; REPRODUCIBILITY; DURABILITY; FITNESS FOR A PARTICULAR PURPOSE OR USE; MERCHANTABILITY; CONDITION; OR ANY OTHER MATTER WITH RESPECT TO MACHEREY-NAGEL PRODUCTS OR THE SALE OF MACHEREY-NAGEL PRODUCTS.

If not superseded by these terms the current terms and conditions for the sale of goods (export version) are additionally valid.