

## Proteinase K

### 1 Contents

| Proteinase K               |                       |           |           |
|----------------------------|-----------------------|-----------|-----------|
| REF                        | 740506                | 740506.75 | 740506.30 |
| Proteinase K (lyophilized) | 100 mg<br>(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,<br>white freeze-dried material  |
| <b>Activity:</b>                        | > 2.5 U/mg material (Casein, 37 °C)  |
| <b>Solubility:</b>                      | Readily soluble in a concentration of<br>20 mg/mL in analytical grade water or PB  |
| <b>DNA content:</b>                     | content: < 2 ppm   |
| <b>Contaminating deoxyribonuclease:</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<br>Proteinase<br>Buffer PB<br>to each vial | Add 3.75 mL<br>Proteinase<br>Buffer PB | Add 1.5 mL<br>Proteinase<br>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<br><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<br><i>Proteinase K, lyophilisiert</i> | <br>Danger<br>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](http://www.mn-net.com)).

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