

Instruction for Use

Proteinase K

Molecular biology grade

For general laboratory use.

For *in vitro* use only.



G07001

1 x 50 mg

G07019

1 x 200 mg

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1 Package Contents

Molecular biology grade Proteinase K, 1 x 50 mg or 1x 200 mg lyophilized each.

Proteinase K is an endolytic protease that cleaves peptide bonds at the carboxylic sides of aliphatic, aromatic or hydrophobic amino acids. Proteinase K is a broad-spectrum serine protease that is active under denaturing conditions and stable at high temperatures. The smallest peptide to be hydrolyzed by this enzyme is a tetrapeptide.

2 Product Specifications

| | |
|-----------------|------------------------------|
| Source: | <i>Tritirachium album</i> |
| Activity: | ≥2.5 U/mg (Casein, 37°C) |
| RNase Activity: | Not detectable |
| DNase Activity: | Not detectable |
| Inhibitors: | DFP, Hg ²⁺ , PMSF |

One unit is defined as the amount of enzyme that will liberate 1 μmol of tyrosine per minute at 37°C, pH 7.5.

3 Transport and Storage

The Proteinase K must be stored at +18 to +25°C. If properly stored, the enzyme is stable until the date of expiry printed on the label.

Reconstituted Proteinase K solution has to be aliquoted. Aliquots stored at ≤ -18°C are stable for 12 months.

4 Procedure

When using with **NukEx Pure RNA/DNA Kit** (gerbion, Cat. No. G05004) or **NukEx Mag RNA/DNA Kit** (gerbion, Cat. No. G05012) reconstitute Proteinase K in PCR grade Water for a final concentration of 20 mg/ml.

| | G07001 | G07019 |
|-----------------|---------------|---------------|
| Concentration | 50 mg | 200 mg |
| PCR grade water | 2.5 ml | 10.0 ml |

5 Abbreviations and Symbols



Catalog number



Batch code



Contains sufficient for <n> test



Content



Manufacturer



Use by YYYY-MM-DD



Limit of temperature



Consult instructions for use