

OxGEN Proteinase K

Protein Digestion Enzyme

INSTRUCTION FOR USE



Version 2, 03.03.26

Research Use Only

OXGE-052/20



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Description of the kit

Intended use

OxGEN Proteinase K is a high-performance enzyme designed for efficient digestion of protein contaminants during nucleic acid purification. It rapidly inactivates nucleases that could compromise DNA or RNA integrity. Supplied with OxGEN Storage and Enhancer Buffers, the enzyme facilitates fast and reliable purification for both clinical and research applications.

The kit components

- 20 mg lyophilized Proteinase K powder and 1.5 ml Storage Buffer.
- Instructions for Use (IFU) – detailed guidelines for use.
- Material Safety Data Sheet (MSDS) –contains information on hazard identification, first aid measures, firefighting, accidental release measures, handling and storage, exposure control, and personal protection.

Instructions for Decontamination

1. Bring 20 mg of the Proteinase K powder and the supplied storage buffer to room temperature.
2. Add 1 mL of the Storage Buffer to the Proteinase K vial to obtain a final concentration of 20 mg/ml.
3. Mix gently by inversion or slow pipetting until the powder is completely dissolved. Do not mix vigorously or generate foam.
4. Allow the solution to stand for 5–10 minutes, then mix gently again by inversion.
5. Use the reconstituted Proteinase K according to the applicable protocol.
6. Store the reconstituted solution at -30°C to -15°C .

Troubleshooting

Table 1. Possible causes and solutions for problems that may occur

Problem	Possible cause	Solution
Precipitation in the solution	Low temperature	Heat the solution up to 37°C

Precautions for Users

- OxGEN Proteinase K is intended to be used by laboratory and healthcare professionals.
- Any serious incident that has occurred in relation to the buffer shall be reported to the manufacturer.
- Follow relevant national, WHO and CDC guidelines for use.
- Review the safety data sheets (MSDS) provided with the product.
- Use designated laboratory equipment, consumables, and personal protective equipment in each room.

- Follow Good Laboratory Practices by wearing protective clothing, gloves, goggles, and a mask. Avoid eating, drinking, smoking, or applying cosmetics in the working area.

Chemical Safety

The components of product hazardous content and handling instructions are summarized in “Table 2. Hazardous content and handling instructions”.

Table 2. Hazardous content and handling instructions

Component	GHS symbol	Category	Statements
Proteinase K	  GHS07, GHS08	SERIOUS EYE AND SKIN IRRITATION – CATEGORY 2 A RESPIRATORY SENSITIZATION – Category 1	Hazard Statements: H315; H317; H319; H334; H335 Precautionary Statements: P260; P285; P304 +P341; P342 + P311

Hazard Statements

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

Precaution Statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P285	In case of inadequate ventilation, wear respiratory protection.
P304+P341	IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

Disposal

Dispose used product according to local and international regulations.

Version History

Instruction for Use Version 1, EN, 03.03.2026, OXGE-052/20.

Quality Control System

The Kit is in accordance with ISO 13485:2016.

Technical support

For technical support, please contact our dedicated Technical Support Team at:

TEL: +995 599 374 374, Email: info@oxgen.ge

Trademarks and Disclaimers

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Explanation of Symbols



Information of the version history



Research use only



Catalogue Number



Manufacturer Information



EC Representative

