



PRODUCT SPECIFICATION

DENARASE

25 kU / 100 kU / 500 kU / 1000 kU / 5000 kU

Art. No.: 20804-25k, 20804-100k, 20804-500k, 20804-1000k, 20804-5000k

For research and development use.

Recombinant *Serratia marcescens* endonuclease produced by microbial fermentation with *Bacillus* sp. The production strain employed in the manufacturing of the product is a Genetically Modified Organism (GMO) of safety level S1.

The enzyme is supplied as liquid and formulated in 20 mM Tris-HCl pH 8.0 ± 0.2, 20 mM NaCl, 2 mM MgCl₂, 50 % glycerol (v/v).

Produced in conformity with ISO 9001 standard.

| Parameter | Method | Specification |
|-----------------------|--|--|
| Appearance | visual | Clear, transparent solution |
| Activity | photometric ¹ | > 250 U/μl |
| Purity | Protein purity determined by SDS-PAGE and silver staining | ≥ 99 % |
| Specific Activity | Activity per protein content determined photometrically at 280 nm with a molar extinction coefficient of 44,600 L x mol ⁻¹ x cm ⁻¹ | > 6 x 10 ⁵ U/mg |
| Protease activity | Protease detection assay | No protease activity detectable |
| Endotoxin level | LAL-Test acc. to Ph. Eur. 2.6.14, Method C | < 0.25 EU/kU |
| Total microbial count | TAMC/TYMC acc. to Ph. Eur. 2.6.12 | Aerobic bacteria: < 5 cfu/200 μl Yeast/moulds: < 5 cfu/200 μl |

¹ Unit-Definition: One unit (U) will digest salmon sperm DNA to acid-soluble oligonucleotides equivalent to a ΔA260nm of 1.0 in 30 min at pH 8.0 at 37 °C.

| | |
|---|--|
| Storage | Store at -20 °C ± 5 °C. |
| Stability | Stable within specification range for a period of at least 36 months from the date of product release under proper storage conditions. |
| BSE / TSE / Animal derived material: | The manufacturing process is free of materials with TSE/BSE risk and of raw materials from animal origin. |
| GMO-Statement | The product is free of the production strain. |
| Antibiotics | No antibiotics are used in the manufacturing process. |

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