

## PRODUCT SPECIFICATION

# DENARASE High Salt

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

Art. No.: 22002-25k, 22002-100k, 22002-500k, 22002-1000k, 22002-5000k

### For research and development use.

Recombinant *Serratia marcescens* endonuclease, genetically engineered for higher salt tolerance, 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 7.4 ± 0.2, 250 mM NaCl, 5 mM MgCl<sub>2</sub>, 50 % glycerol (v/v).

Produced under ISO 9001 standard.

Parameter	Method	Specification
Appearance	visual	Clear, transparent solution
Activity	photometric <sup>1</sup>	> 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 45,170 L x mol <sup>-1</sup> x cm <sup>-1</sup>	> 4 x 10 <sup>5</sup> U/mg
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

<sup>1</sup> Unit-Definition: One unit (U) will digest salmon sperm DNA to acid-soluble oligonucleotides equivalent to a ΔA<sub>260nm</sub> of 1.0 in 30 min at pH 8.0 at 37 °C.

<b>Storage</b>	Store at -20 °C ± 5 °C.
<b>Stability</b>	Stable within specification range for a period of at least 6 months from the date of QC-release under proper storage conditions (long-term stability under investigation).
<b>BSE / TSE / Animal derived material:</b>	The manufacturing process is free of materials with TSE/BSE risk and of raw materials from animal origin.
<b>GMO-Statement</b>	The product is free of the production strain.
<b>Antibiotics</b>	No antibiotics are used in the manufacturing process.

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