

## Product Specification

# Denarase High Salt 1 MU / 5 MU, GMP

Art. No: 22002-1M, 22002-5M

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).

The product is produced under EU GMP.

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	≥ 98 %
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/USP <85>, Method C	< 0.25 EU/kU
Total microbial count	TAMC/TYMC acc. to Ph. Eur. 2.6.12/USP <61>	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 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 24 months from the date of manufacture's 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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