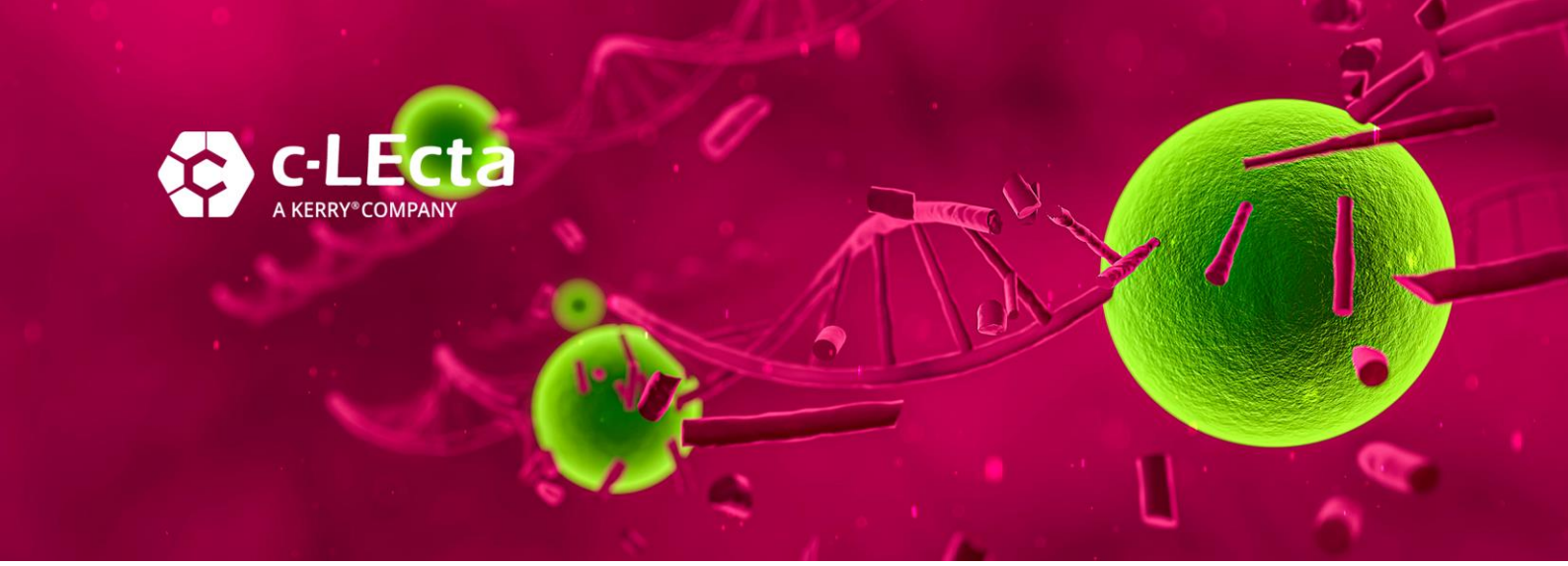

PRODUCT SPECIFICATION

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 $MgCl_2$, 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.

Version 3.0, valid as of Jun. 5, 2025

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.

Version 3.0, valid as of Jun. 5, 2025