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for tomorrow's industry

## PRODUCT INFORMATION

# DENARASE<sup>®</sup> ELISA Kit

Art. No.: 41901-1

This ELISA kit is intended for the quantitative in vitro measurement of *Serratia marcescens* endonuclease. This test may be used to monitor the removal of endonucleases such as DENARASE or Benzonase\* Nuclease from process-related samples for process development and quality control purposes. **The kit is for research and manufacturing use only and is not intended for diagnostic procedures.**

This DENARASE ELISA Kit is a sandwich ELISA to be performed in a microtest plate format. Samples potentially containing *Serratia marcescens* endonuclease are incubated in microtest plate wells, which have been pre-coated with a specific monoclonal capture antibody. Detection of bound endonuclease is performed using a biotin-conjugated, specific monoclonal detector antibody and a streptavidin-HRP conjugate, with TMB as colorimetric substrate.

### Performance Parameters

Limit of Detection (LOD): 4 pg/mL

Limit of Quantification (LOQ): 12 pg/mL

Working Range: ~32 – 1000 pg/mL

The limit of detection was determined by calculating the endonuclease concentration that corresponds to an OD450 value of three standard deviations above the mean OD450 of the assay blank. The limit of quantification was confirmed at a concentration corresponding to the three-fold LOD. The working range of the DENARASE ELISA was defined between 31.25 pg/ml and 1000 pg/ml of endonuclease.

### Storage of the Reagents

All supplied reagents should be kept refrigerated at 2 – 8 °C and should be used before their expiration dates.

**Table 1: Reagents and materials provided in the Kit**

No.	Reagent	Details	Quantity
1	Microtest plate (ready to use)	96 well (12 strips of 8 wells), pre-coated with a monoclonal antibody specific for <i>Serratia marcescens</i> endonuclease	5 microplates
2	Washing and dilution buffer (10x)	Tris buffered saline containing surfactant and preservative, 10x concentrate	3x 100 mL
3	Washing and dilution buffer (10x)	Tris buffered saline containing surfactant and preservative, 10x concentrate	1x 20 mL
4	DENARASE Standard (10 µg/mL)	DENARASE Endonuclease in a buffered solution with preservative	1x 0.1 mL
5	Detector antibody (100x)	Monoclonal antibody specific for <i>Serratia marcescens</i> endonuclease, conjugated to biotin, in a buffered solution with preservative, 100x concentrate	1x 0.75 mL
6	Enzyme conjugate (100x)	Streptavidin-conjugated horseradish peroxidase in stabilized solution, 100x concentrate	1x 0.75 mL
7	Substrate solution	TMB One Substrate solution, ready to use	1x 75 mL
8	Stop solution	0.5 M sulfuric acid	1x 75 mL

DENARASE® is a registered trademark of c-LEcta GmbH in the European Union (EU), United States of America (USA), China (CN), India (IN), South-Korea (KR) and Japan (JP). \* Benzonase endonuclease is a registered trademark of Merck KGaA.

**Ordering Information:**

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