### CERTIFICATE OF ANALYSIS



Macerozyme R-10 from Rhizopus sp.	Cat.No.:	28302
lyophil.	Contr.No.:	180980

Parameter	Method	Specification	Result
Appearance		pearl-white powder	corresponds
Solubility  Activities (U/mg)	1 mg/ml 0.1 M sodium acetate buffer, pH 4.5	clear and colorless	corresponds
	Pectinase	ca. 0.5	0.59
	Cellulase	ca. 0.1	0.11
	Hemicellulase	ca. 0.25	0.19
Minimum shelf life	(lect)		10.10.2020
Storage (°C)	.218		+2 to +8

## Unit definition

# **Pectinase**1 Unit is that amount of enzymatic activity which c

1 Unit is that amount of enzymatic activity which catalyzes the liberation of 1 µmol of reducing groups from pectic acid per minute at 25°C, pH 4.5, calculated as D-galacturonic acid.

### Cellulase

1 Unit is that amount of enzymatic activity which catalyzes the liberation of 1  $\mu$ mol glucose from sodium carboxymethyl cellulose per minute at 40°C, pH 4.5.

### Hemicellulase

1 Unit is that amount of enzymatic activity which liberates 1  $\mu$ mol of reducing groups from beechwood xylan per hour at 37°C, pH 5.5, calculated as xylose.

We do not guarantee that the product can be used for a special application.

This document does not release you from performing the standard control upon receipt of incoming goods.

SERVA Electrophoresis GmbH Printing date: 17.10.2018
Quality Control

Christian Monsler Daniela Lux-Helmstetter

This report has been computer generated and does not contain a signature.