

CERTIFICATE OF ANALYSIS

Macerozyme R-10[®] from Rhizopus sp.	Cat.No. : 28302
lyophil. • Produced by Yakult Pharmaceuticals Industry Co., Ltd.	Contr.No. : 240580

Parameter	Method	Specification	Result
Appearance		pearl-white powder	corresponds
Solubility	1 mg/ml 0.1 M sodium acetate buffer, pH 4.5	clear and colorless	corresponds
Activities (U/mg)	Pectinase	ca. 0.5	0.74
	Cellulase	ca. 0.1	0.11
	Hemicellulase	ca. 0.25	0.29
Minimum shelf life			04.07.2026
Storage (°C)			+2 to +8

Unit definition

Pectinase

1 Unit is that amount of enzymatic activity which catalyzes the liberation of 1 μ mol of reducing groups from polygalacturonic 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 μ 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 μ 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
Quality Control

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Dr. Judith Koch

Daniela Lux-Helmstetter

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