

**CERTIFICATE OF ANALYSIS**

<b>Macerozyme R-10 from Rhizopus sp. lyophil.</b>	<b>Cat.No. : 28302</b>
	<b>Contr.No. : 160246</b>

Parameter	Method	Specification	Result
<b>Appearance</b>		pearl-white powder	corresponds
<b>Solubility</b>	1 mg/ml 0.1 M sodium acetate buffer, pH 4.5	clear and colorless	corresponds
<b>Activities (U/mg)</b>	Pectinase	ca. 0.5	0.56
	Cellulase	ca. 0.1	0.11
	Hemicellulase	ca. 0.25	0.18
<b>Minimum shelf life</b>			09.03.2018
<b>Storage (°C)</b>			+2 to +8

**Unit definition**

**Pectinase**

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 µmol 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 µmol of reducing groups from beechwood xylan per hour at 37°C, pH 5.5, calculated as xylose.

<p>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.</p>
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**SERVA Electrophoresis GmbH**  
**Quality Control**

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