

# SPEZIFIKATION

## SPECIFICATION

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<b>Cellulase "Onozuka RS" from Trichoderma viride</b>	<b>Cat.No.:</b>	<b>16420</b>
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<b>Parameter</b>	<b>Method</b>	<b>Specification</b>
<b>Molecular weight</b>		ca. 52 000
<b>Appearance</b>		beige lyophilisate
<b>Activities (U/mg)</b>	Cellulase Hemicellulase Protease (DMC) $\alpha$ -Amylase Pectinase	ca. 2
<b>Storage (°C)</b>	+2 to +8	

### Unit definitions

#### Cellulase

1 unit is the 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 the 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.

#### Protease

1 DMC-unit is that amount of enzymatic activity which catalyzes the cleavage of 1  $\mu$ equivalent peptide bond from dimethylcasein per minute at 25°C, pH 7.0, expressed in terms of the appearance of new terminal amino groups.

#### $\alpha$ -Amylase

1 unit is that amount of enzymatic activity which catalyzes the liberation of 1  $\mu$ equivalent of reducing groups from soluble starch (Zulkowsky) per minute at 25°C, pH 6.0, calculated as maltose.

#### Pectinase

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

<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**

Dr. H. Volger

D. Lux-Helmstetter

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