

# SPEZIFIKATION

## SPECIFICATION

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| <b>Cellulase "Onozuka R-10" from <i>Trichoderma viride</i></b><br>E.C. 3.2.1.4 | <b>Cat.No.:</b> 16419 |
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| Parameter         | Method            | Specification      |
|-------------------|-------------------|--------------------|
| Molecular weight  |                   | ca. 52 000         |
| Appearance        |                   | beige lyophilisate |
| Activities (U/mg) | Cellulase         | ca. 1              |
|                   | Hemicellulase     | ca. 1              |
|                   | Protease (DMC)    | ca. 0.01           |
|                   | $\alpha$ -Amylase | ca. 0.8            |
|                   | Pectinase         | ca. 0.4            |
| Storage (°C)      | +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 xylos e.

#### 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, calcul ated as D-galacturonic acid.

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| <p>We do not guarantee that the product can be used for a special application.<br/>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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