

CERTIFICATE OF ANALYSIS

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| Cellulase "Onozuka" R-10 from <i>Trichoderma viride</i> E.C. 3.2.1.4 | Cat.No.: 16419 Contr.No.: 120985 |
|---|-------------------------------------|

| Parameter | Method | Specification | Result |
|--------------------|-------------------|--------------------|-------------|
| Molecular weight | | ca. 52 000 | |
| Appearance | | beige lyophilisate | corresponds |
| Activities (U/mg) | Cellulase | ca. 1 | 0.93 |
| | Hemicellulase | ca. 1 | 0.81 |
| | Protease (DMC) | ca. 0.01 | 0.015 |
| | α -Amylase | ca. 0.8 | 0.69 |
| | Pectinase | ca. 0.4 | 0.19 |
| Minimum shelf life | | | 08/ 2015 |
| Storage (°C) | | | +2 to +8 |

Unit definitions

Cellulase

1 unit is the 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 the 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.

Protease

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

α -Amylase

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

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| <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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