Creative Enzymes
Diagnostic Enzymes

# Exo-1,3-Beta-D-Glucanase and Beta-Glucosidase Enzyme Mixture

## Product Information

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| **Cat#** | DIA-524 |
| **Source** | β-Glucosidase: Aspergillus sp.<br>exo-1,3-β-Glucanase: Trichoderma sp. |
| **Description** | High purity exo-1,3-β-D-glucanase (Trichoderma sp.) + β-glucosidase (Aspergillus sp.) for use in research, biochemical enzyme assays and in vitro diagnostic analysis. |
| **Form** | Suspension |
| **ECNumber** | Exo-1,3-β-glucanase: 3.2.1.58<br>β-glucosidase: 3.2.1.21 |
| **CAS No.** | exo-1,3-β-glucanase: 9073-49-8<br>β-glucosidase: 9001-22-3 |
| **Optimum pH** | 4 |
| **Optimum temperature** | 40 °C |
| **Stability** | > 1 year under recommended storage conditions |
| **Unit Definition** | Exo-1,3-β-D-Glucanase: One unit of exo-1,3-β-glucanase activity is defined as the amount of enzyme required to release one µmole of glucose reducing-sugar equivalents per minute from laminarin (10 mg/mL) in sodium acetate buffer (100 mM), pH 4.0 at 40 °C.<br>β-Glucosidase: One unit of β-glucosidase activity is defined as the amount of enzyme required to release one µmole of p-nitrophenol per minute from 4-nitrophenyl-β-D-glucpyranoside in sodium acetate buffer (100 mM), pH 4.0 at 40 °C. |
| **Storage** | 2–8 °C |
| **Synonyms** | Exo-1,3-β-Glucanase: glucan 1,3-β-glucosidase<br>β-glucosidase: 3-β-D-glucan glucohydrolase |
| **Buffer** | 3.2 M ammonium sulphate |

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| **Applications** | For use in the determination of (1,3)(1,4) β-glucan. |
| **Concentration** | Exo-1,3-β-Glucanase: 100 U/mL<br>β-Glucosidase: 20 U/mL |

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