

Recombinant Enzyme Product Specification Sheet

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| Cat. No.: | PRO-E0214 |
| LOT: | 2008-0214 |
| Activity: | Xylan 1,4- β -xylosidase |
| Synonyms: | Xylobiase; β -xylosidase; exo-1,4- β -xylosidase; β -D-xylopyranosidase; exo-1,4-xylosidase; exo-1,4- β -D-xylosidase; 1,4- β -D-xylan xylohydrolase; 4- β -D-xylan xylohydrolase |
| Nomenclature: | Xylan 1,4- β -xylosidase GH43 |
| Source organism: | <i>Lactobacillus brevis</i> ATCC 367 |
| Enzyme Commission No.: | 3.2.1.37 |
| Activity: | - |
| Specific activity: | - |
| Purity: | - |
| Form and storage: | - |
| pH optimum: | - |
| Temperature optimum: | - |
| [Protein]: | - |
| Sequence length: | 560 amino acids (view sequence) |
| Accession No.: | ABJ63538 |
| Molecular weight: | 65068.3 Da (theoretical) |
| | - (observed by SDS-PAGE) |
| | - (observed by mass spectrometry) |
| Biological function: | Hydrolysis of (1->4)- β -D-xylans, to remove successive D-xylose residues from the non-reducing termini |
| Potential application(s): | Biomass conversion , carbohydrate research |
| Comments: | - |
| Usage: | - |
| Assay: | - |

NOTE: this product is currently under development. If you wish to prioritise the production of this enzyme/protein, please follow [this link](#)

Primary sequence:

MTLIQNPIIPGMAPDPSIIRVADDYYIATSTFHWT PGVQIFHSTDLVNWELLTYALTQDEVNLRGTNTPAGIWAP
HLSYDSQTHKFWLAYSHMQNMAGREFNADSFAMSADSIQGPWSAPIYLT SIGFDPALFHDEDGKHYLSILEWETR
DGYQAPGHIVIAEVDLEHGGIIGNWHRVTTGFTTRGCAEAPQIYHHNDY YLLIAAGGTGYAHGIEMGRSRQIFG
PYEPNPTGEP IITSSPQHLSLGD PDAGHFERFDPRAPMQKAGHGS LVQTPTGEWYVAHLMSRPLPNRPLNPLGR
ETALQKMRWTTDGWLQ MADGSNLAKLTT PAPRDYSSPKQTH TADIHTDFTAKVVDH HFMTPYHQQTADWVNITEH
PEHLRIYGQNSLFSQFNPAIMGTRATALTYTSQTALTFHPTHYSQTAGLGLYDANNWLYVRLCQADTEDRTVLR
ILQAKLGKRIDHRVTVDIPDGHVDL KIDYHDGWAQVSYQLPQQA EWSVLEAPIDVNYLSDEGVNGEPGEIGGFTG
LNFFIGAVDAYQHISFADFDY YTVKNYETEDLTHE

Literature:

1. *Makarova et al. (2006) Proc. Natl. Acad. Sci. U.S.A. 103, 15611-15616*