>fig|1402.451.peg.4312 Xylan 1,4-beta-xylosidase (EC 3.2.1.37) [Bacillus licheniformis]

MSGEHTYTNPVLTGFHPDPSIIRVGEDYYMVNSTFQYFPAIVISHSKDLVHWKIIGHGIT

ENEGLDLSDINDSHGIWAPDISYHNGTFYIFATHRLNGPTVINGRKLIRRQIMIKSSRPE

GPYSKPVFIDEGSGIDPSHFVDGDGKHYMLLSPACTLFPLNEECTDISGEPVQIWEGTGR

RAPEGPHLLKKDGYYYAILAEGGTGYSHSITTARSTHLYGPYEPCPYNPILTQTDPDAPI

QRAGHGKLVETQNGEWWAVYLCGRPNQGSYTTVGRETALDPVEWTDDGWFVINSLKGPSL

VQRAPNLPQVKWDEKNFDDFDEDTLGLDWQFVRNPDHSSWSLTERPGYLRLWTGDWDLHD

IRAKNTVVRREKHHLYSAGVKLDFSPSASGEQAGIVCYYSTNNYLKCCLIYEEGLKIKVV

ENRSGCQKTLGKKHAEAGPLFLKAVINKQKRDFYYSYEGKHWHHAGGTEDASFLSDEGSR

DAKGHTGTMVGIFANNGGSGRKAAADFDWFRYIAY

>fig|1402.451.peg.4311 Beta-xylosidase [Bacillus licheniformis]

MAKSLTGKAKHHPPVWNPNIDGGRFCNPVLFMDYSDPDVIRKGSDFFMAASSFSCFPGIP

ILHSTDLVNWSLISHVFDELPFGEYEAPAHGKGAWAPSIRYHNGEFWVYFATPDEGIFMS

KTSDPFKGWEPLIQVKKTKGWIDPCPFWDDDGNAYLIHAYANSRIGIKSKLNLCRMKKDG

TALEDDGEIVFDGTLNHPTIEGPKLYKKDGYYYIFAPAGGVKTGWQTVLRSKQIYGPYED

KVVLHQGNTVINGPHQGGWVELDSGESWFIHFQDRGAFGRVVQLQPVRWFDGWPLMGEDI

NGDGIGEPVLHWEKPKTGAKEVKLPFDHGNDDFSSSDRLALHWQWEANPKQEWYSLSASP

GRLRLYSRGIAHPFKLSRLPNLLMQKFSGPSFTATVKLSLNALSETMMAGLAVMGREYAY

LGFSKSENGYRLSVYEGRIEGDQEDVKTEERGVHAEMVYLRVTVDEQAVCRFSCSMDRRH

FTQIGNSFQAVPGLWTGAKAGVYCADTGGEDGQDGWCDIEWFSVEPAGGECHER

>fig|1402.451.peg.1408 hypothetical protein [Bacillus licheniformis]

MREKWLALCLKSIILFVLIMGTVLLSAVPKASGTSGPAKQEKQSIITPADLLENMSPGWN

LGNTLDAVPTEGSWNNPPVREHTFDDIRDAGFKSVRIPVTWDSHIGSAPEYPIDTDWMNR

VEEVTDWALEREFYVVLNIHHDSWLWISRMGNSQQETLDKLGKVWKQIAERFKNKSERLL

FEIVNEPTGMSAYQMNLLNREMLNIIRSTGGKNGQRLVIVGGLEDNKDELLHSFEPPDDD

RIVLTYHYYSPWDYVSNWWGRTTWGSAAEISEMEEDIKPVYEKFVREGYPVIIGEYGTLG

ANEKHSKWLYHDTFVRLAHKYQMVPMWWDNGNDQFDRAERQWRDPVVKEIVIQAGRGVPN

AIIKPADLFIKKGQSISDQTVDIQLNGNVLTGIYQKSEPLKEGSDYTVDNAGKTVSIKAS

CLAKLLNGAGQPGVKAQLTFTFHKGASQVMDIILYDDPKLEKSEFTISQSAISGDLKIPA

SLNGTKLATVKGVVDSTGRPVLEEVWSWTPYLNYDEDFYEKDGDLYLKERVLKYLKSDST

FTFELWPKGVEAVVKVKVTP

>tr|A5H0S3|A5H0S3\_BACLI Endo-1,4-beta-xylanase OS=Bacillus licheniformis OX=1402 GN=xyn11 PE=3 SV=1

MFKFKKNFLVGLTAALMSISLFSATASAASTDYWPNWTDGGGTVNAVNGSGGNYSVNWSN

TGNFVVGKGWTKGSPSRTINYNAGVWAPNGNGYLALYGWTRSPLIEYYVVDSWGTYRPTG

TYKGTVYSDGGTYDIYTTKRYNAPSIEGQHSTFTQYWSVRRSKRPTGNNAKITFSNHVKA

WKSHGMNLGSIWSYQVLATEGYQSSGSSNVTVW

>tr|Q45VU7|Q45VU7\_BACLI Endo-1,4-beta-xylanase OS=Bacillus licheniformis OX=1402 GN=xylB PE=3 SV=1

MFKFKKNFLVGLSAALMSISLFSATASAASTDYWQNWTDGGGIVNAVNGSGGNYSVNWSN

TGNFVVGKGWTTGSPFRTINYNAGVWAPNGNGYLTLYGWTRSPLIEYYVVDSWGTYRPTG

TYKGTVKSDGGTYDIYTTTRYNAPSIDGDNTTFTQYWSVRQSKRPTGSNAAITFSNHVNA

WKSHGMNLGSNWAYQVLATEGYKSSGSSNVTVW

>tr|A0A291NUE5|A0A291NUE5\_BACLI Endo-1,4-beta-xylanase OS=Bacillus licheniformis OX=1402 GN=xyn11 PE=3 SV=1

MFKFKKNFLVGLTAALMSISLFSATASAASTDYWQNWTDGGGTVNAVNGSGGNYSVNWSN

TGNFVVGKGWTKGSPFRTINYNAGVWAPNGNGYLALYGWTRSPLIEYYVVDSWGTYRPTG

TYKGTVYSDGGTYDIYTTKRYNAPSIEGQHSTFTQYWSVRRSKRPTGNNAKITFSNHVNA

WKSHGMNLGSIWSYQVLATEGYQSSGSSNVTVW

>tr|A0A1Q9FU94|A0A1Q9FU94\_BACLI Endo-1,4-beta-xylanase OS=Bacillus licheniformis OX=1402 GN=BHT94\_19810 PE=3 SV=1

MFKFKKKFLVGLTAALMSISLFSATASAAGTDYWQNWTDGGGVVNAVNGAGGNYSVNWSN

TGNFVVGKGWTTGSPFRTINYNAGVWAPNGNGYLTLYGWTRSPLIEYYVVDSWGTYRPTG

TYKGTVKSDGGTYDIYTTTRYNAPSIDGDNTTFTQYWSVRQTKRPTGSNATITFSNHVNA

WKSHGMNLGSNWSYQVLATEGYQSSGSSNVTVW

>tr|B5SYI8|B5SYI8\_BACLI Endo-1,4-beta-xylanase (Fragment) OS=Bacillus licheniformis OX=1402 GN=xyn11 PE=3 SV=1

MFKFKKNFLVGLTAALMSISLFSATASAASTDYWQNWTDGGGTVNAVNGSGGNYSVNWSN

TGNFVVGKGWTKGSPSRTINYNAGVWAPNGNGYLALYGWTRSPLIEYYVVDSWGTYRPTG

TYKGTVYSDGGTYDIYTTKRYNAPSIEGQHSTFTQYWSVRRSKRPTGNNAKITFSNHVKA

WKSHGMNLGSIWSYQVLATEGYQSSGSSNVTVW

>tr|H1ACZ7|H1ACZ7\_BACLI Xylanase OS=Bacillus licheniformis OX=1402 GN=xynC PE=3 SV=1

MKKLICVLLAYVTMLSLMLTGPAASEVSAASDATVRLSAEKQVIRGFGGMNHPAWIGDLT

AAQRETAFGNGQNQLGFSILRIHVDENRNNWYREVETAKSAIKHGAIVFASPWNPPSDMV

ETFNRNGDTSAKRLRYDKYAAYAKHLNDFVTFMKNNGVNLYAISVQNEPDYAHDWTWWTP

QEILRFMKENAGSINARVIAPESFQYLKNISDPILNDPKALANMDILGAHLYGTQLNNFA

YPLFKQKGAGKDLWMTEVYYPNSDNNSADRWPEALDVSHHIHNSMVEGDFQAYVWWYIRR

SYGPMKEDGTISKRGYNMAHFSKFVRPGYVRVDATKSPASNVYVSAYKGDNKVVIVAINK

NNSGVNQNFVLQNGSVSQVSRWITSSSSNLQPGTNLNVTDNHFWAHLPAQSVTTFVANLR