

## Recombinant Enzyme Product Specification Sheet

<b>Cat. No.:</b>	PRO-E0344
<b>LOT:</b>	2008-0344
<b>Activity:</b>	$\alpha$ -L-Arabinofuranosidase
<b>Synonyms:</b>	$\alpha$ -N-Arabinofuranosidase, arabinofuranosidase, arabinosidase
<b>Nomenclature:</b>	$\alpha$ -L-Arabinofuranosidase, GH 51
<b>Source organism:</b>	<i>Opitutus terrae</i> PB90-1
<b>Enzyme Commission No.:</b>	<a href="#">3.2.1.55</a>
<b>Activity:</b>	-
<b>Specific activity:</b>	-
<b>Purity:</b>	-
<b>Form and storage:</b>	-
<b>pH optimum:</b>	-
<b>Temperature optimum:</b>	-
<b>[Protein]:</b>	-
<b>Sequence length:</b>	703 amino acids ( <a href="#">view sequence</a> )
<b>Accession No.:</b>	<a href="#">ACB76488</a>
<b>Molecular weight:</b>	78902.7 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
<b>Biological function:</b>	Hydrolysis of terminal non-reducing $\alpha$ -L-arabinofuranoside residues in $\alpha$ -L-arabinosides
<b>Potential application(s):</b>	<a href="#">Biomass conversion</a> , <a href="#">carbohydrate research</a>
<b>Comments:</b>	Acts on $\alpha$ -L-arabinofuranosides, $\alpha$ -L-arabinans containing (1,3)- and/or (1,5)-linkages, arabinoxylans and arabinogalactans. Some EC <a href="#">3.2.1.23</a> and EC <a href="#">3.2.1.38</a> enzymes also hydrolyse $\alpha$ -L-arabinosides. Formerly EC 3.2.1.79
<b>Usage:</b>	-
<b>Assay:</b>	-

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

**Primary sequence:**

MSSLIKSLLLPVVACSVAAALPATLNAAAATAEPAPVRAVIEAGQTGTPISPFVYGQFVEHIHDLVNDTLWA  
EMLDDRKFYHPVLAAEPPPPETPARFGRTPQRRWLAVGPITAVTMDRQAPWVGEHSRVALAGDEPRGIS  
QAGLALRAGRRTGRVVLAAEGTSAAEVTLIWGADASNRQTQKIAALTPAFSTHEFAFTAGADHTDARIE  
ITATGRGSLRIGAVSLMPADNIEGFRRDVVTALKSLHSGVYRFPGGNFVSAHEWRDAVGPRDRRAPTMDP  
VRPFAQPNVDVGTDEFLLTLCRLLEVEPYITVSAGFGDAWSAAQLVEYCNGPVTTMGRSRAENGHPEPYHV  
KYWGI GNEPWGDWQFGAMAMEQFLVKHNLFAKAMRRVDPNI ILIAGGAMPDTMTCSKQTLRITGKIKTEL  
LGPADWTGGFLQKCFENTDMIAEHFYAYTNRRFDVEKGDVPLDPDEPLIEWMRRPANHARVKVEAYREY  
QELIPAFKAKPI PINLDEWAYAGGSPGSYKTVPALAWVFHEMFRNSDIYQMAAYTFATSLVSTNRTDAVL  
NPAGLMFKLYRDHFGTIPVAVTGDAPPPAKYPAGGQDPKVNAGSPTHPLDVVAAWTGDRSALTIAVLNP  
NEIAHRLNWTVRDAQLAGTGKLRMAPSDINATIILVGEKPGVVVEEQTLNTPDTPVELPPFSISLYVLP  
KAR

**Literature:**

-