

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0044
LOT:	2008-0044
Activity:	CtCBM42A
Synonyms:	Carbohydrate binding module; carbohydrate binding domain
Nomenclature:	CtCBM42A is a family 42 arabinoxylan-binding module
Source organism:	<i>Clostridium thermocellum</i>
Enzyme Commission No.:	-
Activity:	} See comments below
Specific activity:	
Purity:	>95% as judged by SDS-PAGE
Form and storage:	Supplied in 3.2 M ammonium sulphate, store at 4°C (shipped at room temperature)
pH optimum:	-
Temperature optimum:	-
[Protein]:	0.34 mg/mL
Sequence length:	147 amino acids (view sequence)
Accession No.	ABN51257
Molecular weight:	18070.9 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
Biological function:	Binds specifically to the arabinose side-chains of arabinoxylan
Potential application(s):	Carbohydrate research
Comments:	-
Usage:	Agitate bottle sufficiently to fully homogenise enzyme precipitate before use
Assay:	To recover maximal CtCBM42A activity, centrifuge a required volume of the precipitated protein suspension provided (13000 ×g for 2 min), remove the supernatant and resuspend the resulting pellet in the same volume of 20 mM Tris-HCl, pH 7.5, 20 mM NaCl, 5 mM CaCl ₂ . Proceed with the assay as required

Primary sequence:

MSTNPITKAKFQSYNYPNMYIRHANFDARIDENVTPEMDSQWELVPGLANSGDGYVSIQSVNYPGYL
RHSNYDLSLEKNDGTSLFAESATFKIVPGLADPSYISFQSYNFPTRYIRHYNLLRLDEIVTELDRQD
ATFKIISED TQ

Literature:

1. Unpublished data