

>Bsu0305 alpha-amylase (amyE) [3.2.1.1] {Bacillus subtilis 168}

Met (band 1)

MF~~AK~~RF~~KT~~SL~~LL~~PLFAGF~~LLL~~FHLVLAGPAA~~ASA~~ETANKS~~NEL~~TAPSIKSGTILHAWNWSFNTLKHN~~MD~~DIHDAGYTAIQTSPINQVK~~EG~~NQGD~~KS~~~~MS~~NWYWL~~Y~~QPTSYQIGNRYLGTEQEF
K~~EM~~CAAAEEYGIK~~VI~~VDVINHTTSDYAAISNEVKSIPN~~W~~THGNTQIK~~N~~WSDRWDVTQNSLLGLYD~~W~~NTQNTQVQSYLKRF~~L~~DRALNDGADGFR~~F~~DAAKHIELPDDGSYGSQFWPNITNTS
AEFYGEILQDSAS~~R~~DAAYANY~~MD~~V~~T~~ASNYGHSIR~~S~~ALK~~N~~RNLGVS~~N~~ISHYASDV~~S~~AD~~K~~LVTWVESHD~~T~~YANDDEESTW~~MS~~DDDIRL~~G~~WAVIASRSGSTPLFFSRPEGGNGVRFPGK~~S~~QI
GDRGSALFEDQAITAVNRFHN~~V~~MAGQPEELSNPN~~G~~NNQIF~~M~~NQRGSHGVVLANAGSSSVSINTATKLPDGRYDNKAGAGSFQVNDGKLTGTINAR~~S~~VAVLYPDDIAKAPHVFL~~E~~NYKTGVT
HSFNDQLTITL~~R~~ADANTTKAVYQINNGPETAFKDG~~D~~QFTIGK~~G~~DPFGK~~TY~~TIM~~L~~KGTNSDGVTRTEKYSFVK~~R~~DPASAKTIGYQNP~~N~~HWSQVNAYIYK~~H~~DGSRVIELTGSWPGK~~P~~MTKNAD
GIYTLTLPADTDTTNAK~~V~~IFNNGSAQVPGQNP~~G~~PGFDYVLNGLYND~~S~~GLSGSLPH

cyan background, found peptide; signal peptide is shown in grey

found peptides with Met: 6/9

sequence	#aa	modification	modified sequence	Elution Time	MascotCore	intensity
AGAGSFQVNDGK	12	Unmodified	_AGAGSFQVNDGK_	37,939	9,16E+01	2848200
AGAGSFQVNDGKLTGTINAR	20	Unmodified	_AGAGSFQVNDGKLTGTINAR_	59,932	52,42	121590
ALNDGADGFR	10	Unmodified	_ALNDGADGFR_	40,044	68,02	76438
ALNDGADGFR	10	Unmodified	_ALNDGADGFR_	40,974	5,00E+01	104110
ALNDGADGFR	10	Unmodified	_ALNDGADGFR_	42,016	57,62	2246000
ALNDGADGFRF DA AK	15	Unmodified	_ALNDGADGFRF DA AK_	60,515	19,65	1006300
ALNDGADGFRF DA AK	15	Unmodified	_ALNDGADGFRF DA AK_	60,528	16,28	43720
APHVFL E NYK	10	Unmodified	_APHVFL E NYK_	50,459	3,09E+01	3270900
APHVFL E NYK	10	Unmodified	_APHVFL E NYK_	50,463	32,24	323510
DAAYANYMDVTASNYGHSIR	20	Unmodified	_DAAYANYMDVTASNYGHSIR_	76,994	28,82	660660
DIHDAGYTAIQTSPINQVK	19	Unmodified	_DIHDAGYTAIQTSPINQVK_	66,544	50,83	2857000
DIHDAGYTAIQTSPINQVK	19	Unmodified	_DIHDAGYTAIQTSPINQVK_	66,544	55,05	55285
DIHDAGYTAIQTSPINQVK	19	Unmodified	_DIHDAGYTAIQTSPINQVK_	68,142	0,5	
EMCAAAEEYGIK	12	Oxidation (M)	_EM(ox)CAAAEEYGIK_	45,401	39,83	202950
EMCAAAEEYGIK	12	Oxidation (M)	_EM(ox)CAAAEEYGIK_	45,392	47,96	62623
EMCAAAEEYGIK	12	Unmodified	_EMCAAAEEYGIK_	54,716	40,55	177390
EMCAAAEEYGIK	12	Met_Ethionine (M)	_EM(me)CAAAEEYGIK_	55,325	37,16	27752
FHNVMAGQPEELSNPN G NNQIFM N QR	26	2 Oxidation (M)	_FHNVM(ox)AGQPEELSNPN G NNQIFM(ox) N QR_	61,448	28,41	114590
FHNVMAGQPEELSNPN G NNQIFM N QR	26	2 Oxidation (M)	_FHNVM(ox)AGQPEELSNPN G NNQIFM(ox) N QR_	61,454	36,48	267380
FHNVMAGQPEELSNPN G NNQIFM N QR	26	2 Oxidation (M)	_FHNVM(ox)AGQPEELSNPN G NNQIFM(ox) N QR_	61,446	4,56E+00	117110
FHNVMAGQPEELSNPN G NNQIFM N QR	26	Oxidation (M)	_FHNVM(ox)AGQPEELSNPN G NNQIFM N QR_	65,85	8,15	16641
GSALFEDQAITAVNR	15	Unmodified	_GSALFEDQAITAVNR_	72,266	86,36	2112200
GSALFEDQAITAVNR	15	Unmodified	_GSALFEDQAITAVNR_	72,266	44,67	1580800
LGWAVIASR	9	Unmodified	_LGWAVIASR_	69,211	59,49	1422500

LTGTINAR	8	Unmodified	_LTGTINAR_	33,203	3,30E+01	764460
NADGIYTLTLPADTDTTNAK	20	Unmodified	_NADGIYTLTLPADTDTTNAK_	65,411	1,97E+01	18453
NADGIYTLTLPADTDTTNAK	20	Unmodified	_NADGIYTLTLPADTDTTNAK_	80,036	38,03	740230
NADGIYTLTLPADTDTTNAK	20	Unmodified	_NADGIYTLTLPADTDTTNAK_	80,037	62,25	1091000
NADGIYTLTLPADTDTTNAK	20	Unmodified	_NADGIYTLTLPADTDTTNAK_	81,166	22,07	82220
NADGIYTLTLPADTDTTNAK	20	Unmodified	_NADGIYTLTLPADTDTTNAK_	81,197	32,19	35300
NLGVSNISHYASDVSA DK	18	Unmodified	_NLGVSNISHYASDVSA DK_	65,302	22,11	2425700
NLGVSNISHYASDVSA DK	18	Unmodified	_NLGVSNISHYASDVSA DK_	65,289	54,89	102590
SGSTPLFFSR	10	Unmodified	_SGSTPLFFSR_	65,146	43,49	192210
SGSTPLFFSRPEG GNGVR	19	Unmodified	_SGSTPLFFSRPEG GNGVR_	59,708	25,92	1475500
SGSTPLFFSRPEG GNGVR	19	Unmodified	_SGSTPLFFSRPEG GNGVR_	59,645	6,69	21718
SIPNWTGNTQIK	13	Unmodified	_SIPNWTGNTQIK_	48,497	28,98	123930
SVAVLYPDDIAK	12	Unmodified	_SVAVLYPDDIAK_	62,706	43,05	59651
SVAVLYPDDIAK	12	Unmodified	_SVAVLYPDDIAK_	64,238	51,07	2721900
SVAVLYPDDIAK	12	Unmodified	_SVAVLYPDDIAK_	64,237	24,33	102740
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	71,517	40,6	315580
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	75,717	5,09	10613
TIGYQNP NHWSQVNAYIYK	19	Unmodified	_TIGYQNP NHWSQVNAYIYK_	74,345	31,59	381780
TIGYQNP NHWSQVNAYIYK	19	Unmodified	_TIGYQNP NHWSQVNAYIYK_	74,328	14,17	58962
TYTIMLK	7	Unmodified	_TYTIMLK_	54,002	31	338910
VIELTGSWPGKPM TK	15	Oxidation (M)	_VIELTGSWPGKPM (ox) TK_	62,454	33,37	1017000
VIELTGSWPGKPM TK	15	Oxidation (M)	_VIELTGSWPGKPM (ox) TK_	62,444	20,6	61797
VIELTGSWPGKPM TK	15	Unmodified	_VIELTGSWPGKPM TK_	67,379	16,61	115890
VIVDAVINHTTSDYAAISNEVK	22	Unmodified	_VIVDAVINHTTSDYAAISNEVK_	88,448	23,98	1385000
VIVDAVINHTTSDYAAISNEVK	22	Unmodified	_VIVDAVINHTTSDYAAISNEVK_	88,453	38,38	2481300
VIVDAVINHTTSDYAAISNEVK	22	Unmodified	_VIVDAVINHTTSDYAAISNEVK_	88,408	46,84	63478
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation (M)	_YLGTEQEFKEM (ox) CAAAEYGIK_	75,72	25,63	80804
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation (M)	_YLGTEQEFKEM (ox) CAAAEYGIK_	75,746	6,34	40864

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band 2 (Nle)

MFAKRFKTSLLPLFAGFLLLFHLVLAGPAAASAETANKSNELTAPSIKSGTILHAWNWSFNTLKHNMKDIHDAGYTAIQTSPINQVKEGNQGDKSMNWWLYQPTSYQIGNRYLGTEQEF

*
KEMCAAAEEYGIKVIVDAVINHTTSDYAAISNEVK SIPNWTGNTQIKNWSDRWDVTQNSLLGLYDWNTQNTQVQSYLKRFDRALNDGADGFRFDAAKHIELPDDGSYGSQFWPNITNTS
E~~X~~CAAAEEYGIK

*
AEFYGEILQDSASRDAAAYANYMDVTASNYGHSIRSALKNRNLGVSNI SHYASDV SADKLVTWVESHDTYANDDEESTWMSDDDIRLGWAVIASRSGSTPLFFSRPEGGGNGVRFP GKSQI
DAAAYANY~~X~~DVTASNYGHSIR

GDRGSALFEDQAITAVNRFHNVMAGQPEELSNPNGNNQIFMNRQSGHGVVLANAGSSSVSINTATKLPDGRYDNKAGAGSFQVNDGKLTGTINARSVAVLYPDDIAKAPHVFLENYKTGVT

*
HSFNDQLTITLRADANTTKAVYQINNGPETAFKDG DQFTIGKGD PFGKTYTITMLKGTNSDGVTRTEKYSFVKRDPASAKTIGYQNPNHWSQVNAYIYKHDGSRVIELTG SWPGKPMTKNAD
TYTIT~~X~~LK
VIELTG SWPGK~~X~~TK

*
GIYTLTLPADTDTTNAKVIFNNGSAQVPGQNQPGFDYVLNGLYND SGLSGSLPH

cyan background, found peptide; signal peptide is shown in grey

found peptides with Met: 8/9

Met -> Nle (*; ~~X~~) exchange: 4/9 (8), ~50%

Sequence	Length	Modifications	Modified Sequence	Elution Time	Mascot Score	Intensity
AGAGSFQVNDGK	12	Unmodified	_AGAGSFQVNDGK_	36,687	50,22	
AGAGSFQVNDGKLTGTINAR	20	Unmodified	_AGAGSFQVNDGKLTGTINAR_	59,791	47,51	472580
ALNDGADGFR	10	Unmodified	_ALNDGADGFR_	39,871	56,37	278270
ALNDGADGFR	10	Unmodified	_ALNDGADGFR_	40,844	51,72	341970
ALNDGADGFR	10	Unmodified	_ALNDGADGFR_	41,842	77,98	5091500
ALNDGADGFRFDAAK	15	Unmodified	_ALNDGADGFRFDAAK_	60,382	34,4	3484900
APHVFLENYK	10	Unmodified	_APHVFLENYK_	49,112	42,5	18033
APHVFLENYK	10	Unmodified	_APHVFLENYK_	50,262	33,49	654410
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	63,324	24,53	3966800
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	63,307	22,92	39095
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	63,286	44,58	34237
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	67,272	19,25	15391
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	70,067	16,35	7847,3
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	71,798	1,54	7769,5
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	73,328	3,75	8724,9
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	74,815	2,86	10579
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	67,68	7,78	
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	69,538	3,59	
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	70,757	0,82	
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	70,84	0,8	
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	75,393	17,47	
DAAYANYMDVTASNYGHSIR	20	Unmodified	_DAAYANYMDVTASNYGHSIR_	76,742	40,39	1946600
DAAYANYMDVTASNYGHSIR	20	Met -> Nle (M)	_DAAYANYM(me)DVTASNYGHSIR_	84,511	17,44	64152
DIHDAGYTAIQTSPINQVK	19	Unmodified	_DIHDAGYTAIQTSPINQVK_	56,504	7,54	10480
DIHDAGYTAIQTSPINQVK	19	Unmodified	_DIHDAGYTAIQTSPINQVK_	66,433	37,6	5994100
DIHDAGYTAIQTSPINQVK	19	Unmodified	_DIHDAGYTAIQTSPINQVK_	66,43	46,41	151110
EMCAAAEEYGIK	12	Oxidation (M)	_EM(ox)CAAAEEYGIK_	45,264	47,26	646480
EMCAAAEEYGIK	12	Oxidation (M)	_EM(ox)CAAAEEYGIK_	45,209	45,75	171240
EMCAAAEEYGIK	12	Oxidation Ethionine (M)	_EM(ox)CAAAEEYGIK_	45,729	15,77	71703
EMCAAAEEYGIK	12	Met -> Ethionine (M)	_EM(me)CAAAEEYGIK_	55,115	39,61	45736
EMCAAAEEYGIK	12	Met -> Nle (M)	_EM(me)CAAAEEYGIK_	60,653	24,59	18500
FHNVMAGQPEELSNPNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox)AGQPEELSNPNGNNQIFM(ox)NQR_	61,26	19,77	394150
FHNVMAGQPEELSNPNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox)AGQPEELSNPNGNNQIFM(ox)NQR_	61,25	30,81	264510
FHNVMAGQPEELSNPNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox)AGQPEELSNPNGNNQIFM(ox)NQR_	61,211	1,74	217310
FHNVMAGQPEELSNPNGNNQIFMNQR	26	Oxidation (M)	_FHNVM(ox)AGQPEELSNPNGNNQIFMNQR_	65,689	12,3	17242
FHNVMAGQPEELSNPNGNNQIFMNQR	26	Oxidation (M)	_FHNVMAGQPEELSNPNGNNQIFM(ox)NQR_	69,431	13,9	9188,6
FPGKSQIGDR	10	Unmodified	_FPGKSQIGDR_	34,837	12,45	
GSALFEDQAITAVNR	15	Unmodified	_GSALFEDQAITAVNR_	69,296	56,16	37706
GSALFEDQAITAVNR	15	Unmodified	_GSALFEDQAITAVNR_	69,301	25,59	21666
GSALFEDQAITAVNR	15	Unmodified	_GSALFEDQAITAVNR_	72,107	101,04	5037700
GSALFEDQAITAVNR	15	Unmodified	_GSALFEDQAITAVNR_	72,094	35,6	3870900
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	42,654	5,07	23994
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	47,013	12,84	21474
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	49,96	8,81	178150
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	49,545	26,17	9798,7
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	59,172	16,39	35311
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	61,362	23,36	24573
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	63,81	5,32	15774
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	65,252	9,38	19706
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	66,513	26,45	14505

GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	69,701	17,78	23521
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	73,312	15,73	13134
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	124,62	11,66	8409,3
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	131,67	13,43	8008,6
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	56,793	17,38	
GSHGVVLANAGSSSVSINTATKLPDGR	27	Unmodified	_GSHGVVLANAGSSSVSINTATKLPDGR_	60,94	10,82	112290
LGWAVIASR	9	Unmodified	_LGWAVIASR_	69	68,46	3593800
LPDGRYDNK	9	Unmodified	_LPDGRYDNK_	33,199	4,57	16960
LPDGRYDNK	9	Unmodified	_LPDGRYDNK_	34,356	8,89	72059
LTGTINAR	8	Unmodified	_LTGTINAR_	33,038	52,34	1515600
LVTWVESHDTYANDDEESTWMSDDDIR	27	Oxidation (M)	_LVTWVESHDTYANDDEESTWM(ox)SDDDIR_	82,969	19,99	19944
NADGIYTLTLPADTDITNAK	20	Unmodified	_NADGIYTLTLPADTDITNAK_	65,33	17,03	40450
NADGIYTLTLPADTDITNAK	20	Unmodified	_NADGIYTLTLPADTDITNAK_	70,41	8,64	18660
NADGIYTLTLPADTDITNAK	20	Unmodified	_NADGIYTLTLPADTDITNAK_	79,96	22,95	1919500
NADGIYTLTLPADTDITNAK	20	Unmodified	_NADGIYTLTLPADTDITNAK_	81,119	20,82	109960
NADGIYTLTLPADTDITNAK	20	Unmodified	_NADGIYTLTLPADTDITNAK_	81,134	19,8	72845
NLGVSNIASHYASDVASDK	18	Unmodified	_NLGVSNIASHYASDVASDK_	61,383	1,19	12322
NLGVSNIASHYASDVASDK	18	Unmodified	_NLGVSNIASHYASDVASDK_	65,115	27,57	6555300
NLGVSNIASHYASDVASDK	18	Unmodified	_NLGVSNIASHYASDVASDK_	65,117	53,79	416990
SGSTPLFFSR	10	Unmodified	_SGSTPLFFSR_	64,977	48,6	471250
SGSTPLFFSRPEGGGNGVR	19	Unmodified	_SGSTPLFFSRPEGGGNGVR_	59,495	45,77	1118200
SGSTPLFFSRPEGGGNGVR	19	Unmodified	_SGSTPLFFSRPEGGGNGVR_	59,464	11,72	15843
SGSTPLFFSRPEGGGNGVR	19	Unmodified	_SGSTPLFFSRPEGGGNGVR_	59,514	0,8	16945
SGTILHAWNWSFNTLK	16	Unmodified	_SGTILHAWNWSFNTLK_	95,287	18,56	90849
SIPNWTGNTQIK	13	Unmodified	_SIPNWTGNTQIK_	48,342	24,58	338420
SIPNWTGNTQIK	13	Unmodified	_SIPNWTGNTQIK_	48,341	1,4	3656500
SMSNWYLYQPTSYQIGNR	19	Oxidation (M)	_SM(ox)SNWYLYQPTSYQIGNR_	103,33	11,23	28548
SNELTAPSIK	10	Unmodified	_SNELTAPSIK_	44,474	29,53	26658
SVAVLYPDDIAK	12	Unmodified	_SVAVLYPDDIAK_	62,656	61,48	159310
SVAVLYPDDIAK	12	Unmodified	_SVAVLYPDDIAK_	64,169	63,38	7199100
SVAVLYPDDIAK	12	Unmodified	_SVAVLYPDDIAK_	64,101	19,77	216820
SVAVLYPDDIAK	12	Unmodified	_SVAVLYPDDIAK_	65,3	23,71	
SVAVLYPDDIAK	12	Unmodified	_SVAVLYPDDIAK_	65,623	24,91	
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	71,773	41,65	828090
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	71,036	35	24726
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	78,244	4,67	27710
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	80,687	24,32	26887
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	83,061	5,76	12842
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	86,23	6,92	14476
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	94,84	5,58	8987,8
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	116,24	11,09	6359,3
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	117,37	8,76	6574,2
TIGYQNPNHWSQVNAYIYK	19	Unmodified	_TIGYQNPNHWSQVNAYIYK_	74,037	8,83	1539300
TIGYQNPNHWSQVNAYIYK	19	Unmodified	_TIGYQNPNHWSQVNAYIYK_	73,983	4,71	235620
TIGYQNPNHWSQVNAYIYK	19	Unmodified	_TIGYQNPNHWSQVNAYIYK_	73,95	3,95	12353
TYTIMLK	7	Unmodified	_TYTIMLK_	53,852	30,06	933660
TYTIMLK	7	Met -> Nle (M)	_TYTIM(me)LK_	58,842	15,44	53916
VIELTGSWPGK	11	Unmodified	_VIELTGSWPGK_	70,389	44,5	119360
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	62,338	43,82	3552900
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	62,28	22,5	250050
VIELTGSWPGKPMTK	15	Unmodified	_VIELTGSWPGKPMTK_	67,195	44,2	271350
VIELTGSWPGKPMTK	15	Unmodified	_VIELTGSWPGKPMTK_	67,18	19,35	14195

VIELTGSWPGKPMTK	15	Met -> Nle (M)	_VIELTGSWPGKPM(me) TK_	71,121	25,66	25813
VIVDAVINHTTSDYAAISNEVK	22	Unmodified	_VIVDAVINHTTSDYAAISNEVK_	83,086	30,98	27265
VIVDAVINHTTSDYAAISNEVK	22	Unmodified	_VIVDAVINHTTSDYAAISNEVK_	88,337	23,03	3881900
VIVDAVINHTTSDYAAISNEVK	22	Unmodified	_VIVDAVINHTTSDYAAISNEVK_	88,402	23,68	1195900
VIVDAVINHTTSDYAAISNEVK	22	Unmodified	_VIVDAVINHTTSDYAAISNEVK_	96,205	1,35	12681
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation (M)	_YLGTEQEFKEM(ox)CAAAEEYGIK_	75,444	33,84	320880
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation (M)	_YLGTEQEFKEM(ox)CAAAEEYGIK_	75,416	8,53	152870
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation_Ethionine (M)	_YLGTEQEFKEM(ox)CAAAEEYGIK_	76,073	6,78	31480
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation_Ethionine (M)	_YLGTEQEFKEM(ox)CAAAEEYGIK_	76,45	13,9	38763
YLGTEQEFKEMCAAAEEYGIK	21	Unmodified	_YLGTEQEFKEMCAAAEEYGIK_	102,09	9,82	19469

Met

Sequence	Length	Modifications	Modified Sequence	Elution Time	Mascot Score	Intensity
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	63,324	24,53	3966800,0
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	63,307	22,92	39095,0
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	63,286	44,58	34237,0
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	67,272	19,25	15391,0
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	70,067	16,35	7847,3
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	71,798	1,54	7769,5
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	73,328	3,75	8724,9
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	74,815	2,86	10579,0
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	67,68	7,78	
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	69,538	3,59	
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	70,757	0,82	
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	70,84	0,8	
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	75,393	17,47	
DAAYANYMDVTASNYGHSIR	20	Unmodified	_DAAYANYMDVTASNYGHSIR_	76,742	40,39	1946600,0
EMCAAAEEYGIK	12	Oxidation (M)	_EM(ox) CAAAEYGIK_	45,264	47,26	646480,0
EMCAAAEEYGIK	12	Oxidation (M)	_EM(ox) CAAAEYGIK_	45,209	45,75	171240,0
FHNVMAGQPEELSNPNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox) AGQPEELSNPNGNNQIFM(ox) NQR_	61,26	19,77	394150,0
FHNVMAGQPEELSNPNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox) AGQPEELSNPNGNNQIFM(ox) NQR_	61,25	30,81	264510,0
FHNVMAGQPEELSNPNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox) AGQPEELSNPNGNNQIFM(ox) NQR_	61,211	1,74	217310,0
FHNVMAGQPEELSNPNGNNQIFMNQR	26	Oxidation (M)	_FHNVM(ox) AGQPEELSNPNGNNQIFMNQR_	65,689	12,3	17242,0
FHNVMAGQPEELSNPNGNNQIFMNQR	26	Oxidation (M)	_FHNVMAGQPEELSNPNGNNQIFM(ox) NQR_	69,431	13,9	9188,6
LVTWVESHDTYANDDEESTWMSDDDIR	27	Oxidation (M)	_LVTWVESHDTYANDDEESTWM(ox) SDDDIR_	82,969	19,99	19944,0
SMSNWYWLYQPTSYQIGNR	19	Oxidation (M)	_SM(ox) SNWYWLYQPTSYQIGNR_	103,33	11,23	28548,0
TYTIMLK	7	Unmodified	_TYTIMLK_	53,852	30,06	933660,0
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox) TK_	62,338	43,82	3552900,0
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox) TK_	62,28	22,5	250050,0
VIELTGSWPGKPMTK	15	Unmodified	_VIELTGSWPGKPMTK_	67,195	44,2	271350,0
VIELTGSWPGKPMTK	15	Unmodified	_VIELTGSWPGKPMTK_	67,18	19,35	14195,0
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation (M)	_YLGTEQEFKEM(ox) CAAAEYGIK_	75,444	33,84	320880,0
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation (M)	_YLGTEQEFKEM(ox) CAAAEYGIK_	75,416	8,53	152870,0
YLGTEQEFKEMCAAAEEYGIK	21	Unmodified	_YLGTEQEFKEMCAAAEEYGIK_	102,09	9,82	19469,0
sum						13321030,3

Eth

Sequence	Length	Modifications	Modified Sequence	Elution Time	Mascot Score	Intensity
DAAYANYMDVTASNYGHSIR	20	Met -> Nle (M)	_DAAYANYM(me) DVTASNYGHSIR_	84,511	17,44	64152
EMCAAAEEYGIK	12	Met -> Nle (M)	_EM(me) CAAAEYGIK_	60,653	24,59	18500
TYTIMLK	7	Met -> Nle (M)	_TYTIM(me) LK_	58,842	15,44	53916
VIELTGSWPGKPMTK	15	Met -> Nle (M)	_VIELTGSWPGKPM(me) TK_	71,121	25,66	25813
sum						162381

intensity ratio Met:Nle = 13321030 / 162381 = 82 : 1 (~ 1.2 % incorporation)

i.e., VERY LITTLE Nle-Amylase!!

>Bsu0305 alpha-amylase (amyE) [3.2.1.1] {Bacillus subtilis 168}

band 3 (Eth)

MFAKRFKTSLLPLFAGFLLLFHLVLAGPAAASAETANKSNELTAPSIKSGTILHAWNWSFNTLKHNMKDIHDAGYTAIQTSPINQVKEGNQGDKSMSNWYWLYQPTSYQIGNRYLGTEQEF

*
KEMCAAEEYGIKVIIVDAVINHTTSDYAAISNEVKSIPNWTGNTQIKNWSDRWDVTQNSLLGLYDWNTQNTQVQSYLKRFLLDRALNDGADGFRFDAAKHIELPDDGSYGSQFWPNITNTS
ECAAEEYGIK

?
AEFYGEILQDSASRDAAAYANYMDVTASNYGHSIRSALKNRNLGVSINISHYASDVADKLVTWVESHDTYANDDEESTWMSDDDIRLGWAVIASRSGSTPLFFSRPEGGGNGVRFPKQSQI
DAAAYANYMDVTASNYGHSIR

GDRGSALFEDQAITAVNRFHNVMAQPEELSNPNGNNQIFMNQRGSHGVVLANAGSSSVSINTATKLPDGRYDNKAGAGSFQVNDGKLTGTINARSVAVLYPDDIAKAPHVFLENYKTGVT

?
HSFNDQLTITLRADANTTKAVYQINNGPETAFKDGQFTIGKGDPF GKTYTIMLKGTNSDGVTRTEKYSFVKRDPASAKTIGYQNPNHWSQVNAYIYKHDGSRVIELTGSWPGKPMTKNAD
TYTIMLK
VIELTGSWPGKPTK

GIYTLTLPADTDTTNAKVIFNNGSAQVPGQNQPGFDYVLNGLYNDSGLSGSLPH

cyan background, found peptide; signal peptide is shown in grey

found peptides with Met: 7/9
Met -> Eth (*, X; ?, ? questionable) exchange: 1(4)/9(8), ~10%

Sequence	#aa	Modifications	Modified Sequence	Elution Time	Mascot Score	Intensity
AGAGSFQVNDGK	12	Unmodified	_AGAGSFQVNDGK_	36,922	60,91	9949,7
AGAGSFQVNDGK	12	Unmodified	_AGAGSFQVNDGK_	37,968	61,62	3556600
AGAGSFQVNDGKLTGTINAR	20	Unmodified	_AGAGSFQVNDGKLTGTINAR_	60,035	43,98	1253500
ALNDGADGFR	10	Unmodified	_ALNDGADGFR_	40,026	59,76	219830
ALNDGADGFR	10	Unmodified	_ALNDGADGFR_	40,992	54,99	187490
ALNDGADGFR	10	Unmodified	_ALNDGADGFR_	42,012	57,15	2556800
ALNDGADGFRFDAAK	15	Unmodified	_ALNDGADGFRFDAAK_	60,614	20,21	4043500
ALNDGADGFRFDAAK	15	Unmodified	_ALNDGADGFRFDAAK_	60,568	29,99	157870
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	63,474	23,19	3156500
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	63,451	17,58	40003

DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	66,098	28,32	31516
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	67,468	14,52	20515
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	68,451	1,49	5572,3
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox) DVTASNYGHSIR_	74,113	15,77	11799
DAAYANYMDVTASNYGHSIR	20	Oxidation_Ethionine (M)	_DAAYANYM(ox) DVTASNYGHSIR_	65,455	3,2	21395
DAAYANYMDVTASNYGHSIR	20	Unmodified	_DAAYANYMDVTASNYGHSIR_	76,908	27,42	1731800
DIHDAGYTAIQTSPINQVK	19	Unmodified	_DIHDAGYTAIQTSPINQVK_	56,806	0,47	7330,3
DIHDAGYTAIQTSPINQVK	19	Unmodified	_DIHDAGYTAIQTSPINQVK_	66,588	46,88	4123500
DIHDAGYTAIQTSPINQVK	19	Unmodified	_DIHDAGYTAIQTSPINQVK_	66,595	52,3	177030
EMCAAAEEYGIK	12	Oxidation (M)	_EM(ox) CAAAEYGIK_	45,447	43,54	292470
EMCAAAEEYGIK	12	Oxidation (M)	_EM(ox) CAAAEYGIK_	45,428	46,3	70656
EMCAAAEEYGIK	12	Oxidation_Ethionine (M)	_EM(ox) CAAAEYGIK_	45,93	34,28	34816
EMCAAAEEYGIK	12	Unmodified	_EMCAAAEEYGIK_	54,805	51,04	263560
EMCAAAEEYGIK	12	Unmodified	_EMCAAAEEYGIK_	54,802	43,15	113120
EMCAAAEEYGIK	12	Met -> Ethionine (M)	_EM(me) CAAAEYGIK_	55,362	24,38	24639
FHNVMAGQPEELSNPNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox) AGQPEELSNPNGNNQIFM(ox) NQR_	61,481	28,44	152470
FHNVMAGQPEELSNPNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox) AGQPEELSNPNGNNQIFM(ox) NQR_	61,504	25,24	210030
FHNVMAGQPEELSNPNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox) AGQPEELSNPNGNNQIFM(ox) NQR_	61,509	18,52	106490
GSALFEDQAITAVNR	15	Unmodified	_GSALFEDQAITAVNR_	69,319	11,01	28141
GSALFEDQAITAVNR	15	Unmodified	_GSALFEDQAITAVNR_	72,308	76,18	4109700
GSALFEDQAITAVNR	15	Unmodified	_GSALFEDQAITAVNR_	72,284	54,19	2640400
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	47,27	0,54	9622,4
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	50,337	57,78	436060
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	50,071	29,26	67522
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	55,356	18,14	32278
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	59,666	21,47	19641
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	64,373	19,15	13991
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	69,026	1,59	8124,1
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	73,826	15,8	9702,7
GSHGVVLANAGSSSVSINTATK	22	Unmodified	_GSHGVVLANAGSSSVSINTATK_	63,07	16,96	
GSHGVVLANAGSSSVSINTATKLPDGR	27	Unmodified	_GSHGVVLANAGSSSVSINTATKLPDGR_	61,328	16,15	263350
GSHGVVLANAGSSSVSINTATKLPDGR	27	Unmodified	_GSHGVVLANAGSSSVSINTATKLPDGR_	60,937	17,83	22150
LGWAVIASR	9	Unmodified	_LGWAVIASR_	69,321	71,95	3770900
LPDGRYDNK	9	Unmodified	_LPDGRYDNK_	33,405	12,44	41881
LPDGRYDNK	9	Unmodified	_LPDGRYDNK_	34,496	15,41	80196
NADGIYTLTLPADTDTTNAK	20	Unmodified	_NADGIYTLTLPADTDTTNAK_	65,457	29,98	30038
NADGIYTLTLPADTDTTNAK	20	Unmodified	_NADGIYTLTLPADTDTTNAK_	70,672	1,07	19819
NADGIYTLTLPADTDTTNAK	20	Unmodified	_NADGIYTLTLPADTDTTNAK_	80,027	32,86	1813300
NADGIYTLTLPADTDTTNAK	20	Unmodified	_NADGIYTLTLPADTDTTNAK_	81,219	18,93	49479
NADGIYTLTLPADTDTTNAK	20	Unmodified	_NADGIYTLTLPADTDTTNAK_	81,21	27,64	68565
NLGVSNI SHYASDV SADK	18	Unmodified	_NLGVSNI SHYASDV SADK_	65,35	41,34	3341100
NLGVSNI SHYASDV SADK	18	Unmodified	_NLGVSNI SHYASDV SADK_	65,345	68,77	202010
SGSTPLFFSR	10	Unmodified	_SGSTPLFFSR_	65,215	44,38	273210
SGSTPLFFSRPEGGGNGVR	19	Unmodified	_SGSTPLFFSRPEGGGNGVR_	59,865	14,28	774180
SGTILHAWNWSFNTLK	16	Unmodified	_SGTILHAWNWSFNTLK_	96,071	27,57	50685
SIPNWT HGNTQIK	13	Unmodified	_SIPNWT HGNTQIK_	48,602	30,28	264220
SMSNWY WLYQPTSYQIGNR	19	Oxidation (M)	_SM(ox) SNWY WLYQPTSYQIGNR_	103,56	27,99	23233
SNELTAPSIK	10	Unmodified	_SNELTAPSIK_	44,615	21,77	12287
SVAVLYPDDIAK	12	Unmodified	_SVAVLYPDDIAK_	62,8	39,84	118990
SVAVLYPDDIAK	12	Unmodified	_SVAVLYPDDIAK_	64,327	53,37	4493700
SVAVLYPDDIAK	12	Unmodified	_SVAVLYPDDIAK_	64,322	18,25	224470
TEKYSFVK	8	Unmodified	_TEKYSFVK_	36,629	24,67	

TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	71,63	39,63	633120
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	71,321	56,29	18578
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	81,214	11,02	12553
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	83,219	5,86	12235
TGVTHSFNDQLTITLR	16	Unmodified	_TGVTHSFNDQLTITLR_	101,54	3,08	5383,9
TYTIMLK	7	Oxidation (M)	_TYTIM(ox)LK_	49,288	19	2638500
TYTIMLK	7	Oxidation (M)	_TYTIM(ox)LK_	52,017	1,55	
TYTIMLK	7	Oxidation_Ethionine (M)	_TYTIM(ox)LK_	50,112	1,71	25410
TYTIMLK	7	Unmodified	_TYTIMLK_	54,164	20,01	602880
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	62,561	30,98	2542600
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	62,539	3,36	163370
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	62,485	0,38	105690
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	63,945	24,15	
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	64,118	3,98	
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	64,611	8,08	
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	65,149	13,2	
VIELTGSWPGKPMTK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	65,372	7,67	
VIELTGSWPGKPMTK	15	Oxidation_Ethionine (M)	_VIELTGSWPGKPM(ox)TK_	63,545	3,28	16230
VIELTGSWPGKPMTK	15	Unmodified	_VIELTGSWPGKPMTK_	67,512	16,01	210170
VIELTGSWPGKPMTK	15	Unmodified	_VIELTGSWPGKPMTK_	67,487	21,1	11549
VIVDAVINHTTSDYAAISNEVK	22	Unmodified	_VIVDAVINHTTSDYAAISNEVK_	83,268	19,05	25982
VIVDAVINHTTSDYAAISNEVK	22	Unmodified	_VIVDAVINHTTSDYAAISNEVK_	88,51	3,39	1168100
VIVDAVINHTTSDYAAISNEVK	22	Unmodified	_VIVDAVINHTTSDYAAISNEVK_	88,621	40,18	3624600
VIVDAVINHTTSDYAAISNEVK	22	Unmodified	_VIVDAVINHTTSDYAAISNEVK_	95,774	2,76	5076,3
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation (M)	_YLGTEQEFKEM(ox)CAAAEEYGIK_	75,668	2,53	194880
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation_Ethionine (M)	_YLGTEQEFKEM(ox)CAAAEEYGIK_	76,501	4,6	34932
YLGTEQEFKEMCAAAEEYGIK	21	Unmodified	_YLGTEQEFKEMCAAAEEYGIK_	102,49	21,89	30412
YLGTEQEFKEMCAAAEEYGIK	21	Unmodified	_YLGTEQEFKEMCAAAEEYGIK_	102,46	9,16	15832

Met

Sequence	#aa	Modifications	Modified Sequence	Elution Time	Mascot Score	Intensity
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	63,474	23,19	3156500
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	63,451	17,58	40003
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	66,098	28,32	31516
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	67,468	14,52	20515
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	68,451	1,49	5572
DAAYANYMDVTASNYGHSIR	20	Oxidation (M)	_DAAYANYM(ox)DVTASNYGHSIR_	74,113	15,77	11799
DAAYANYMDVTASNYGHSIR	20	Unmodified	_DAAYANYMDVTASNYGHSIR_	76,908	27,42	1731800
EMCAAAEEYGIK	12	Oxidation (M)	_EM(ox)CAAAEEYGIK_	45,447	43,54	292470
EMCAAAEEYGIK	12	Oxidation (M)	_EM(ox)CAAAEEYGIK_	45,428	46,3	70656
EMCAAAEEYGIK	12	Unmodified	_EMCAAAEEYGIK_	54,805	51,04	263560
EMCAAAEEYGIK	12	Unmodified	_EMCAAAEEYGIK_	54,802	43,15	113120
FHNVMAGQPEELSNPNNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox)AGQPEELSNPNNGNNQIFM(ox)NQR_	61,481	28,44	152470
FHNVMAGQPEELSNPNNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox)AGQPEELSNPNNGNNQIFM(ox)NQR_	61,504	25,24	210030
FHNVMAGQPEELSNPNNGNNQIFMNQR	26	2 Oxidation (M)	_FHNVM(ox)AGQPEELSNPNNGNNQIFM(ox)NQR_	61,509	18,52	106490
SMSNWYWLQPTSYQIGNR	19	Oxidation (M)	_SM(ox)SNWYWLQPTSYQIGNR_	103,56	27,99	23233
TYTIMLK	7	Oxidation (M)	_TYTIM(ox)LK_	49,288	19	2638500
TYTIMLK	7	Oxidation (M)	_TYTIM(ox)LK_	52,017	1,55	
TYTIMLK	7	Unmodified	_TYTIMLK_	54,164	20,01	602880
VIELTGSWPGKPMK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	62,561	30,98	2542600
VIELTGSWPGKPMK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	62,539	3,36	163370
VIELTGSWPGKPMK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	62,485	0,38	105690
VIELTGSWPGKPMK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	63,945	24,15	
VIELTGSWPGKPMK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	64,118	3,98	
VIELTGSWPGKPMK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	64,611	8,08	
VIELTGSWPGKPMK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	65,149	13,2	
VIELTGSWPGKPMK	15	Oxidation (M)	_VIELTGSWPGKPM(ox)TK_	65,372	7,67	
VIELTGSWPGKPMK	15	Unmodified	_VIELTGSWPGKPMK_	67,512	16,01	210170
VIELTGSWPGKPMK	15	Unmodified	_VIELTGSWPGKPMK_	67,487	21,1	11549
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation (M)	_YLGTEQEFKEM(ox)CAAAEEYGIK_	75,668	2,53	194880
YLGTEQEFKEMCAAAEEYGIK	21	Unmodified	_YLGTEQEFKEMCAAAEEYGIK_	102,49	21,89	30412
YLGTEQEFKEMCAAAEEYGIK	21	Unmodified	_YLGTEQEFKEMCAAAEEYGIK_	102,46	9,16	15832
sum						12745617

Eth

Sequence	#aa	Modifications	Modified Sequence	Elution Time	Mascot Score	Intensity
DAAYANYMDVTASNYGHSIR	20	Oxidation_Ethionine (M)	_DAAYANYM(ox)DVTASNYGHSIR_	65,455	3,2	21395
EMCAAAEEYGIK	12	Oxidation_Ethionine (M)	_EM(ox)CAAAEEYGIK_	45,93	34,28	34816
EMCAAAEEYGIK	12	Met -> Ethionine (M)	_EM(me)CAAAEEYGIK_	55,362	24,38	24639
TYTIMLK	7	Oxidation_Ethionine (M)	_TYTIM(ox)LK_	50,112	1,71	25410
VIELTGSWPGKPMK	15	Oxidation_Ethionine (M)	_VIELTGSWPGKPM(ox)TK_	63,545	3,28	16230
YLGTEQEFKEMCAAAEEYGIK	21	Oxidation_Ethionine (M)	_YLGTEQEFKEM(ox)CAAAEEYGIK_	76,501	4,6	34932
sum						157422

intensity ratio Met:Nle = 12745617 / 157422 = 81 : 1 (~ 1.2 % incorporation)

i.e., VERY LITTLE Eth-Amylase!!