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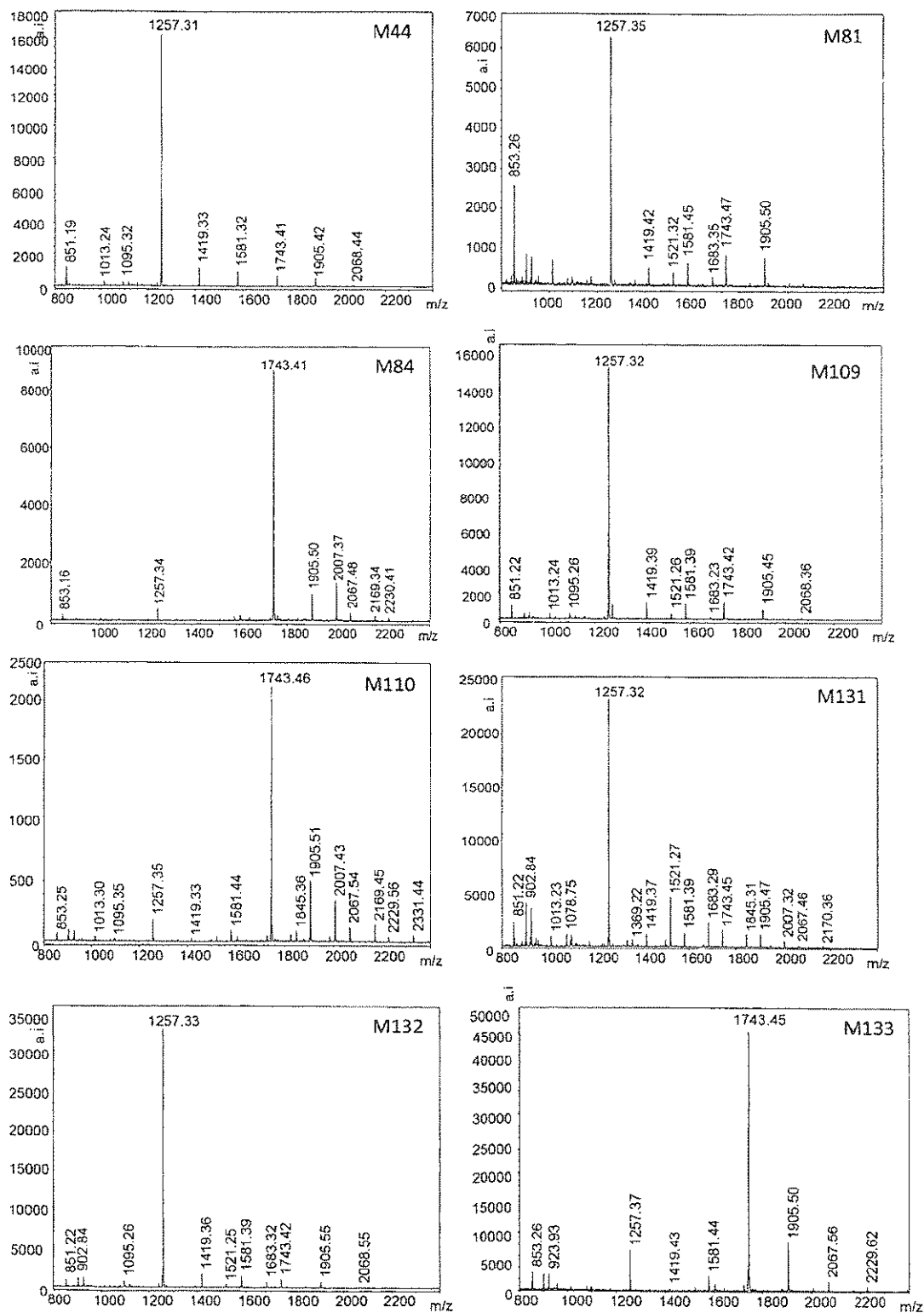


Figure 1, cont.

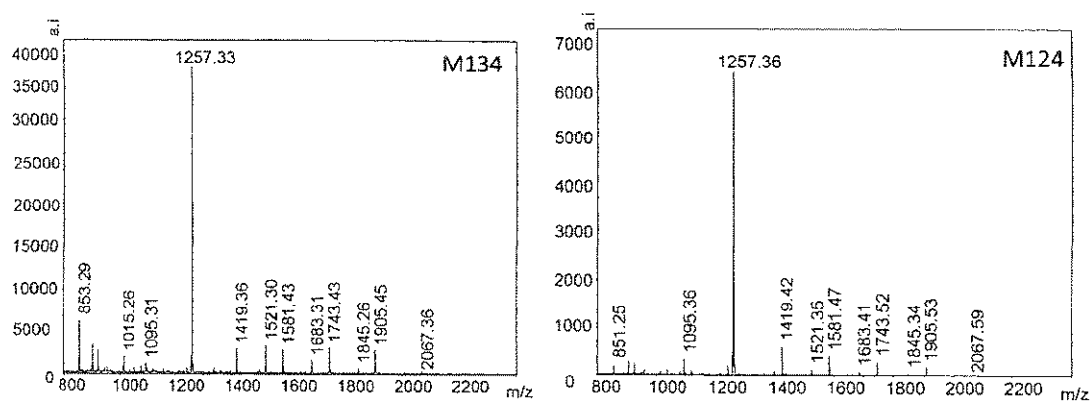


Figure 2

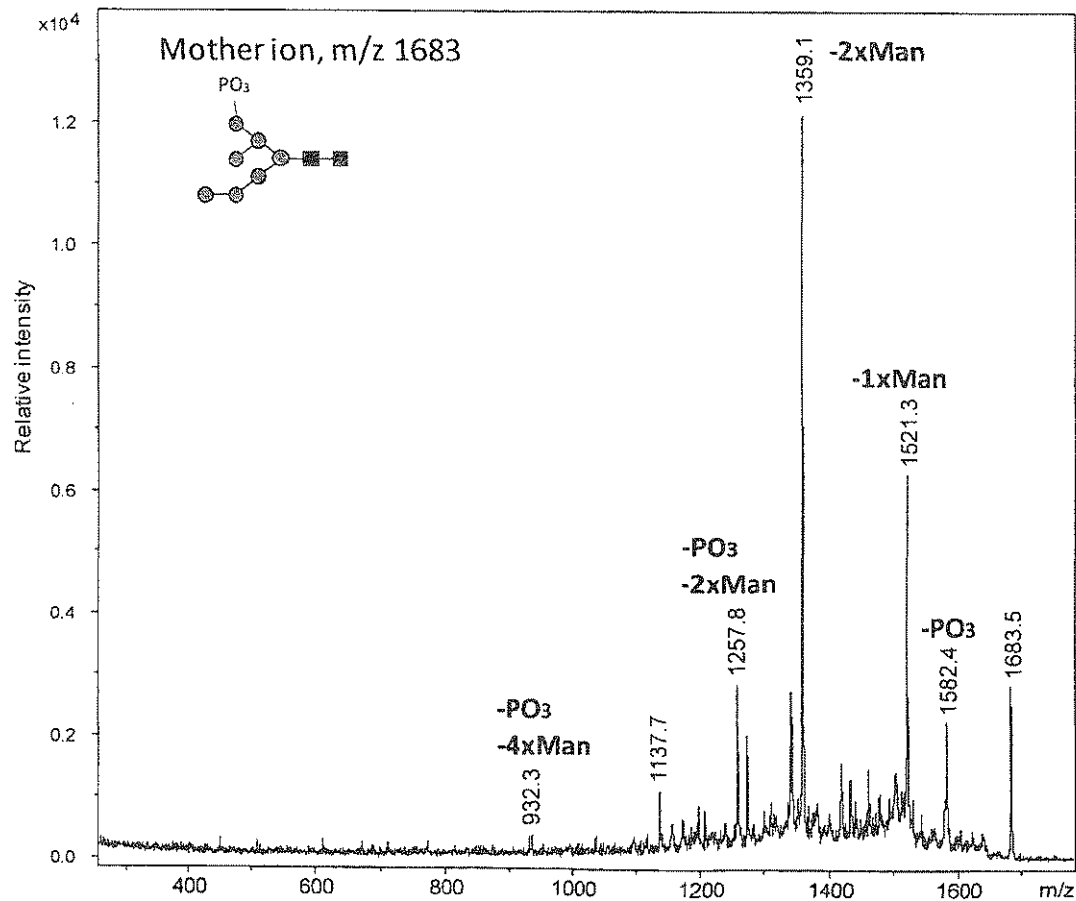


Figure 3

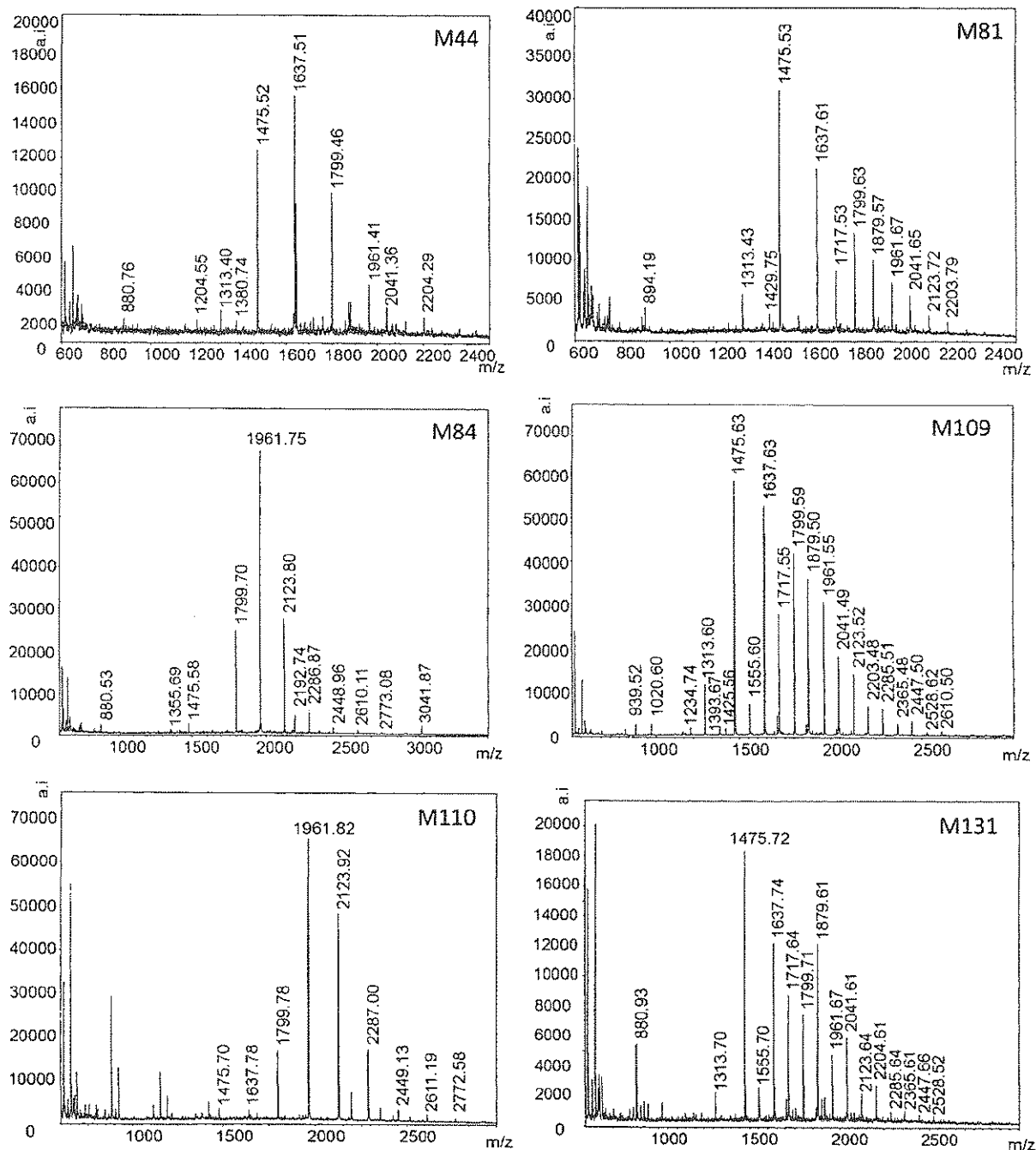


Figure 3, cont.

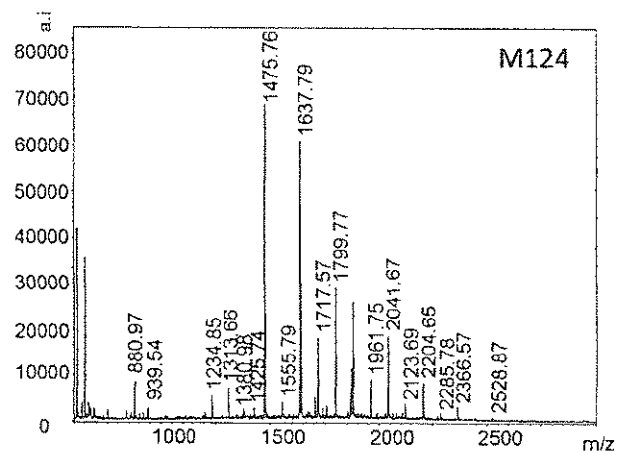
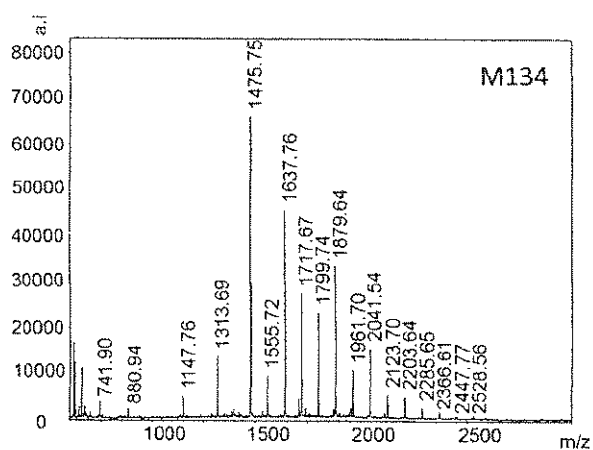
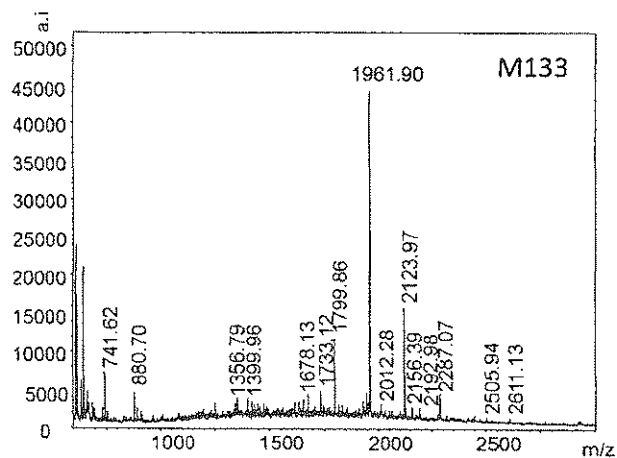
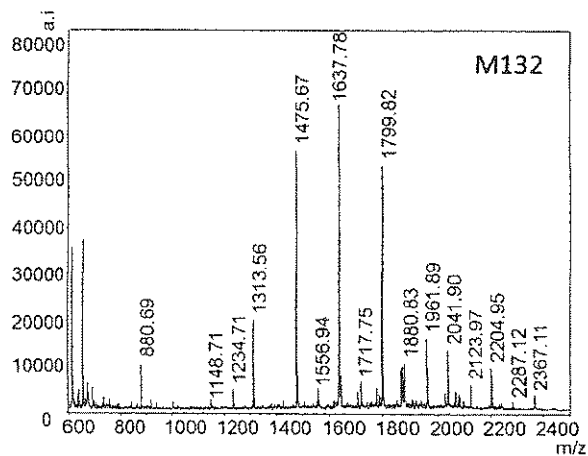
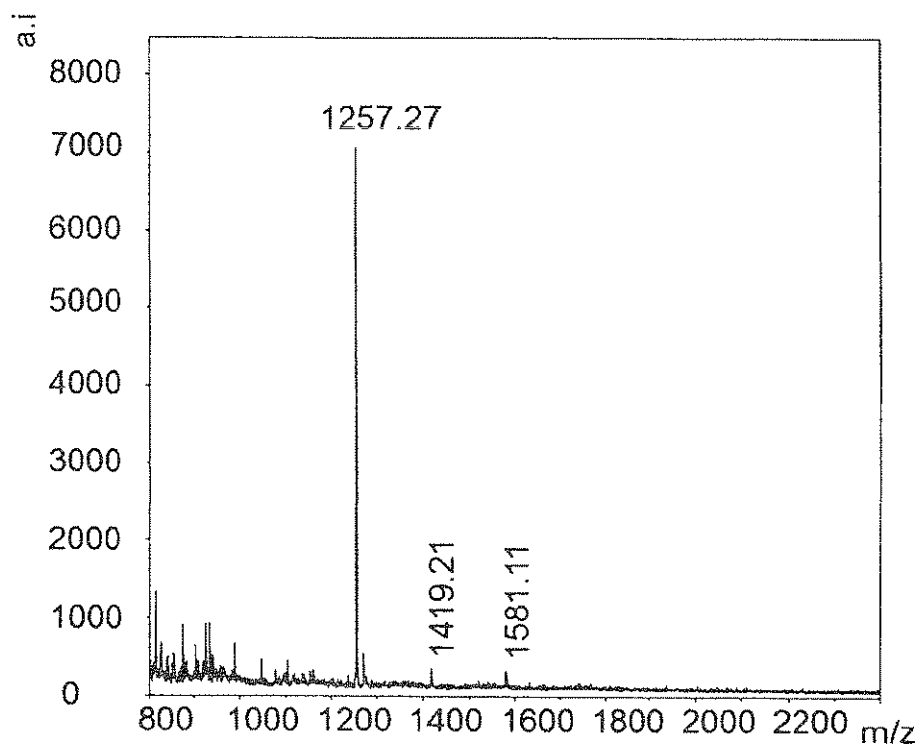


Figure 4

A.



B.

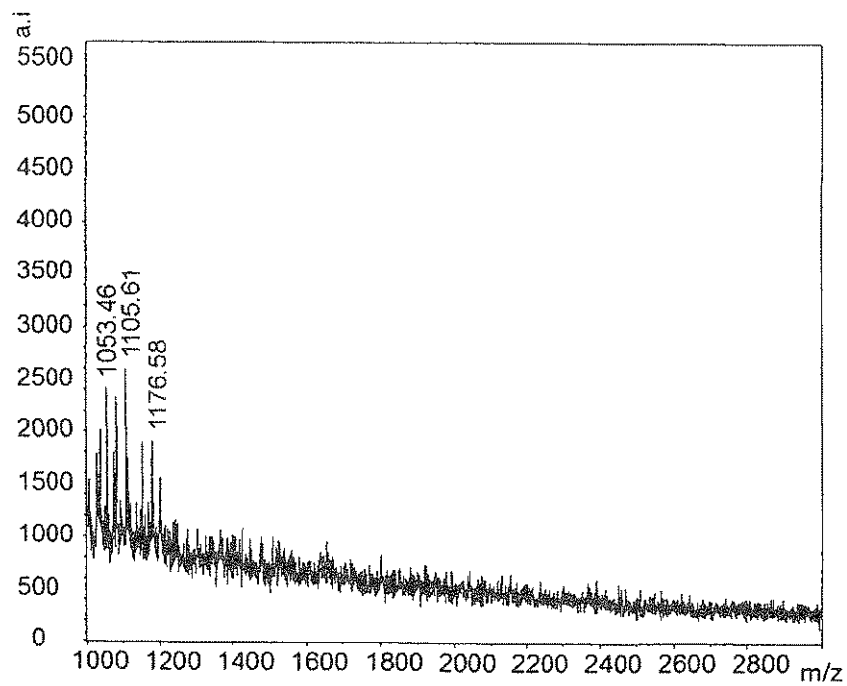
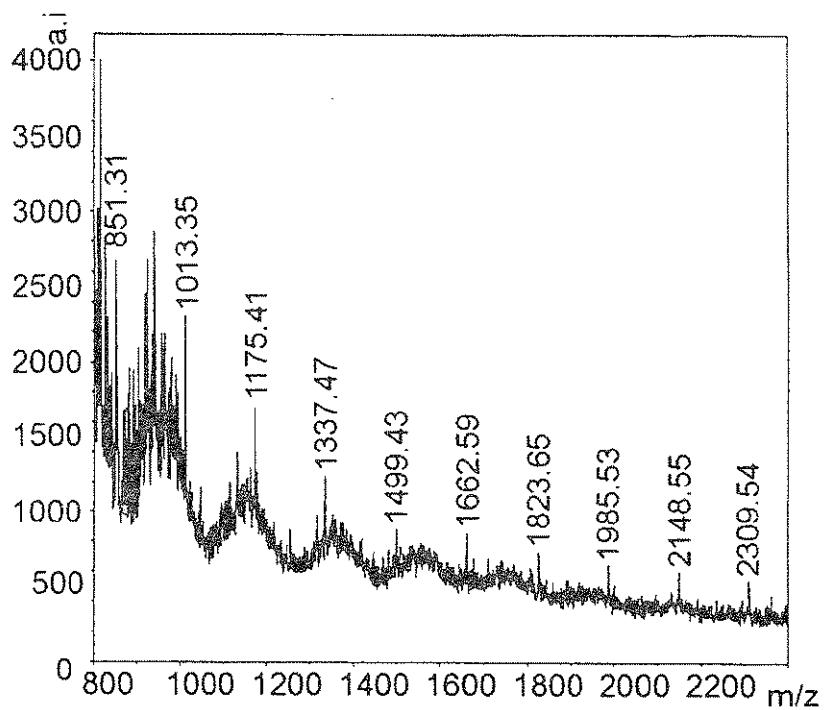


Figure 5

A.



B.

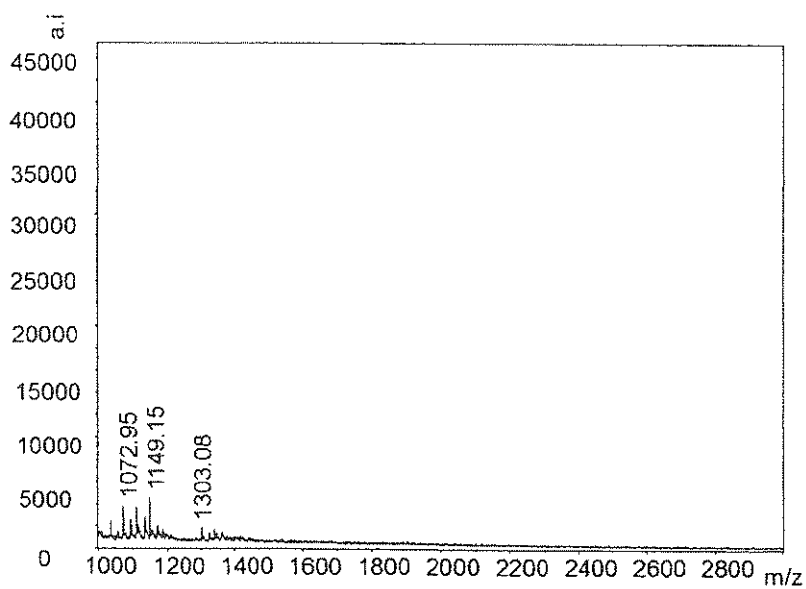


Figure 6

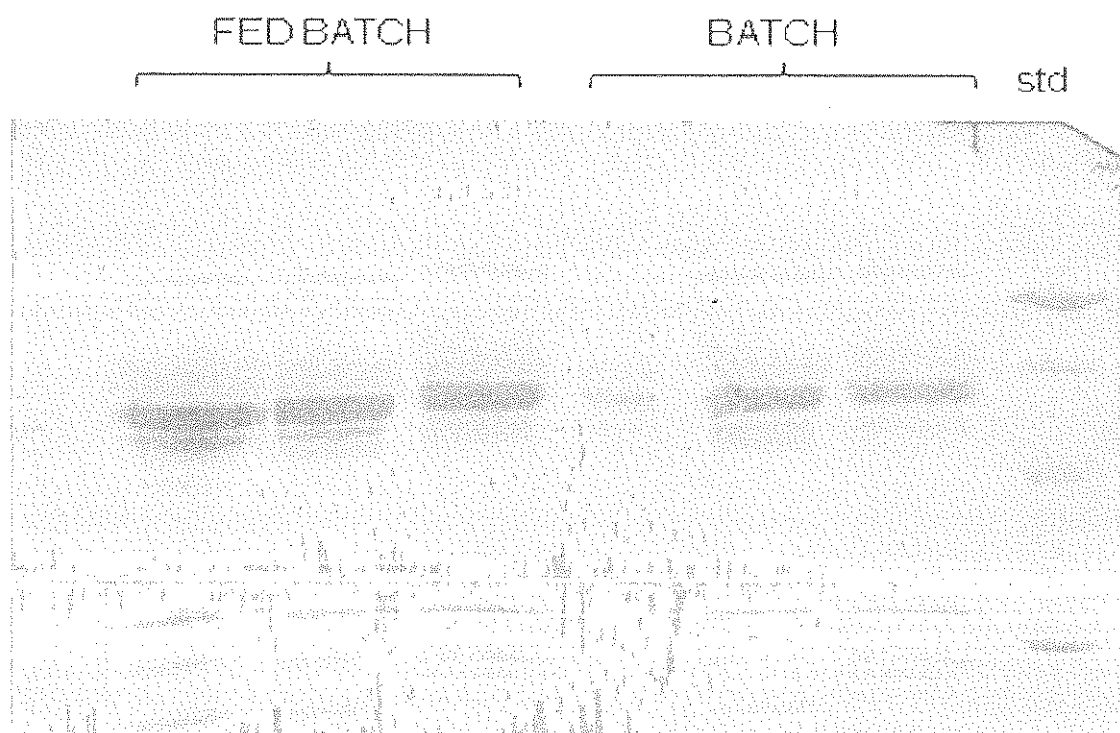


Figure 7

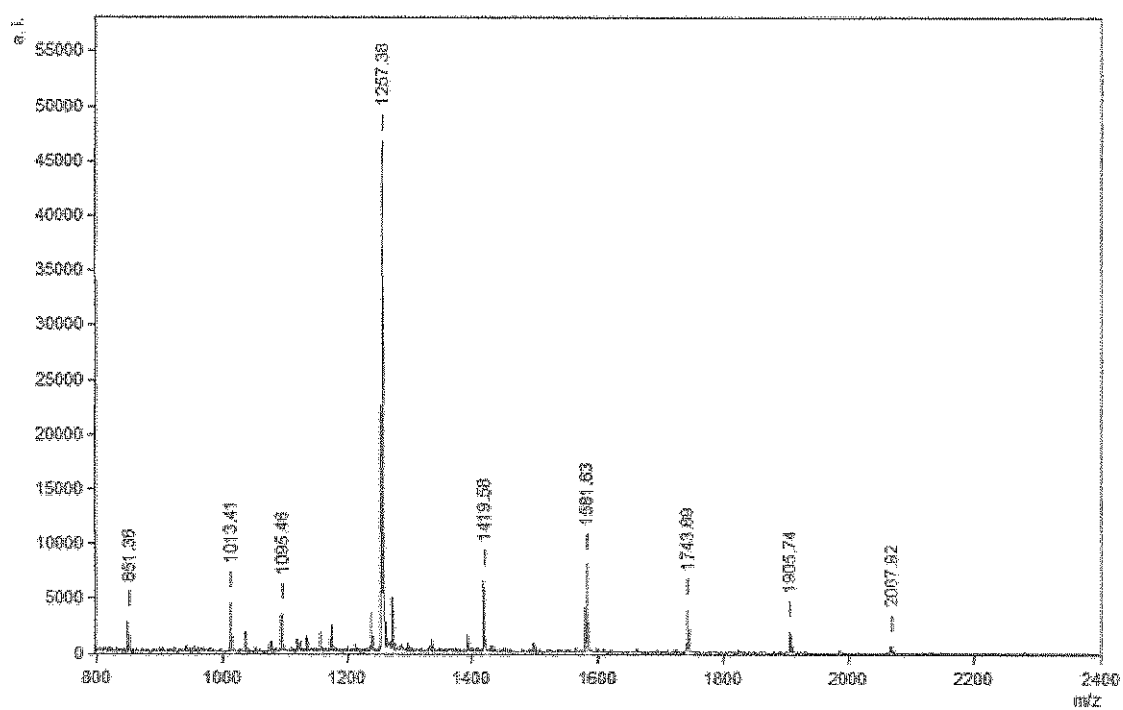


Figure 8

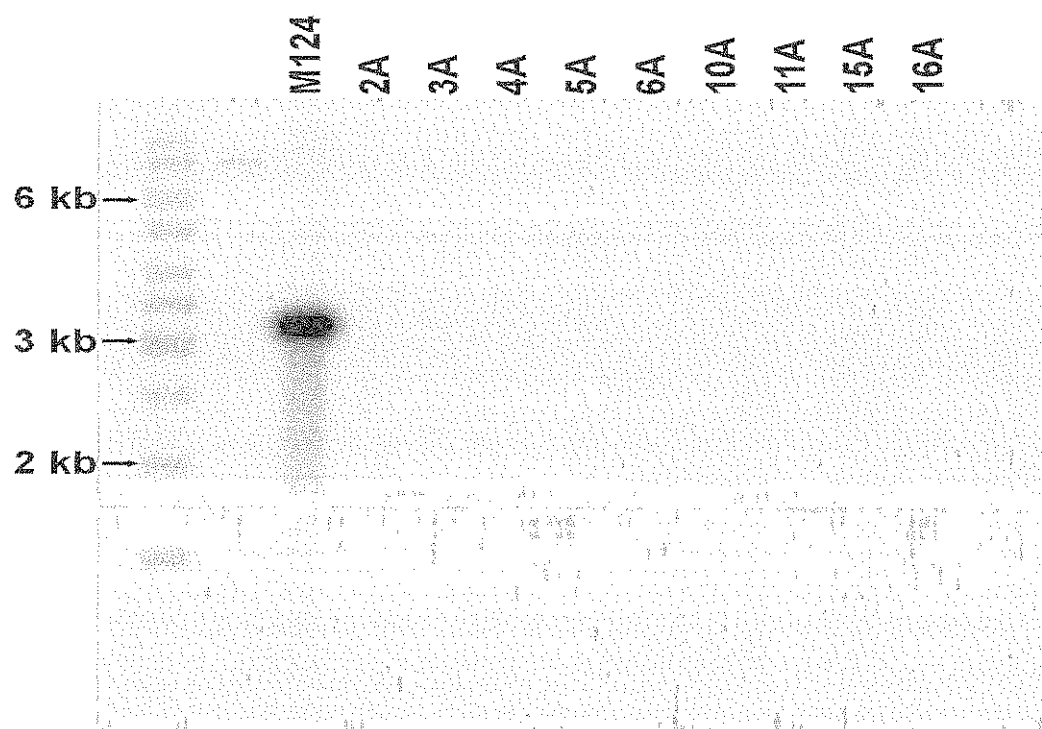
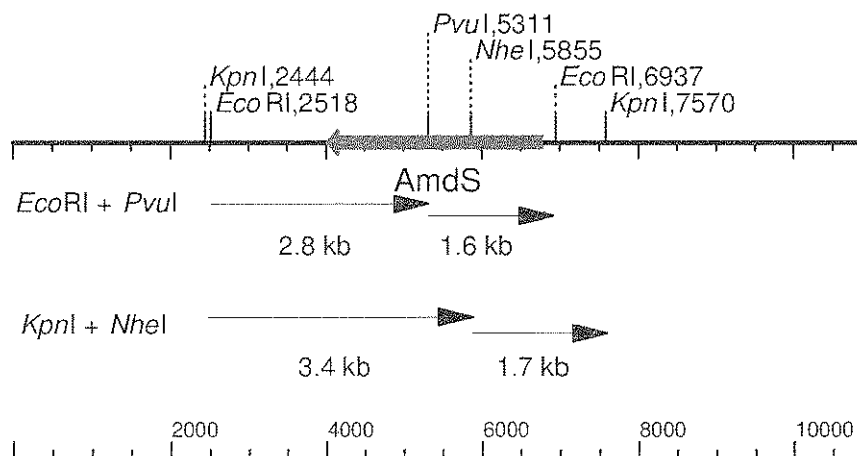


Figure 9

A.



B.

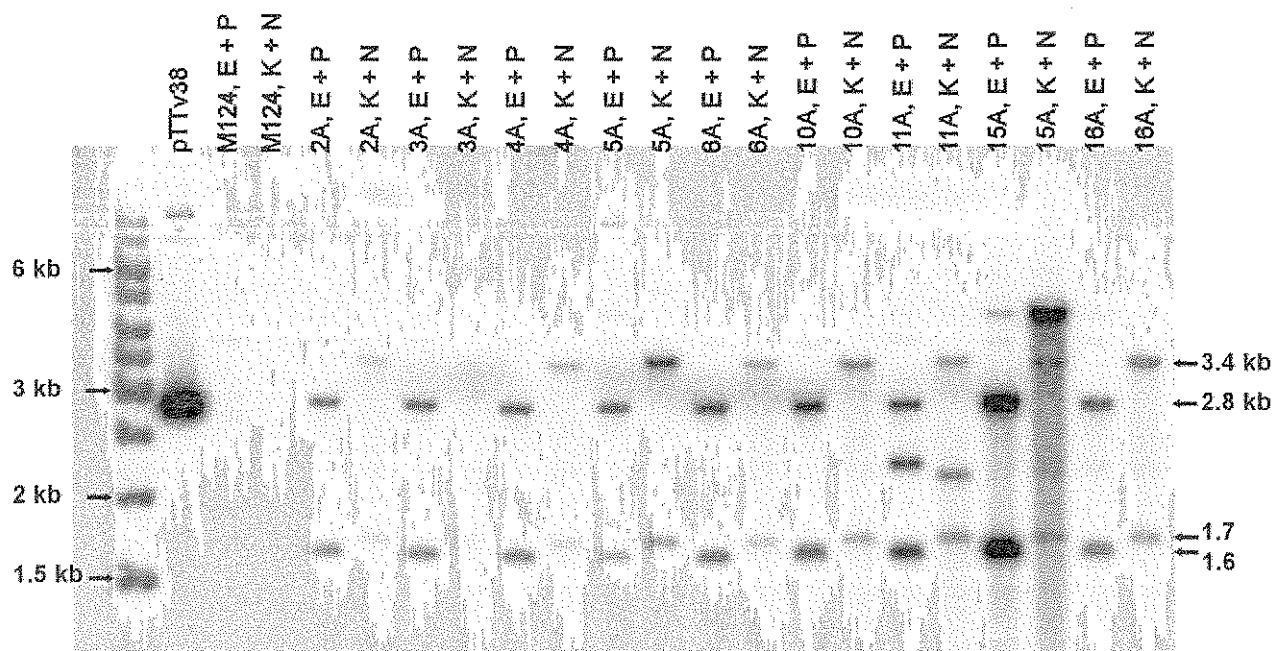


Figure 10

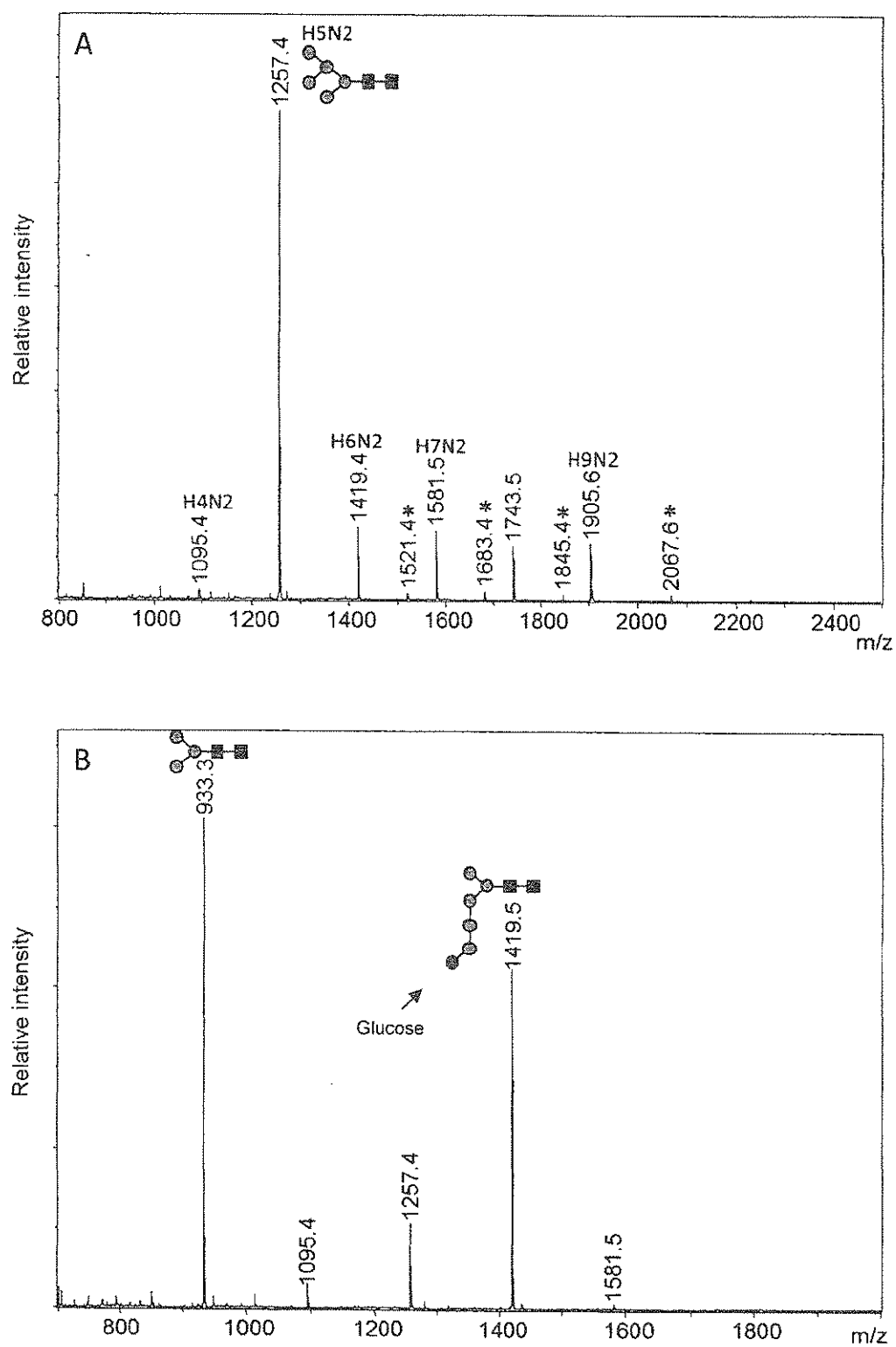


Figure 11

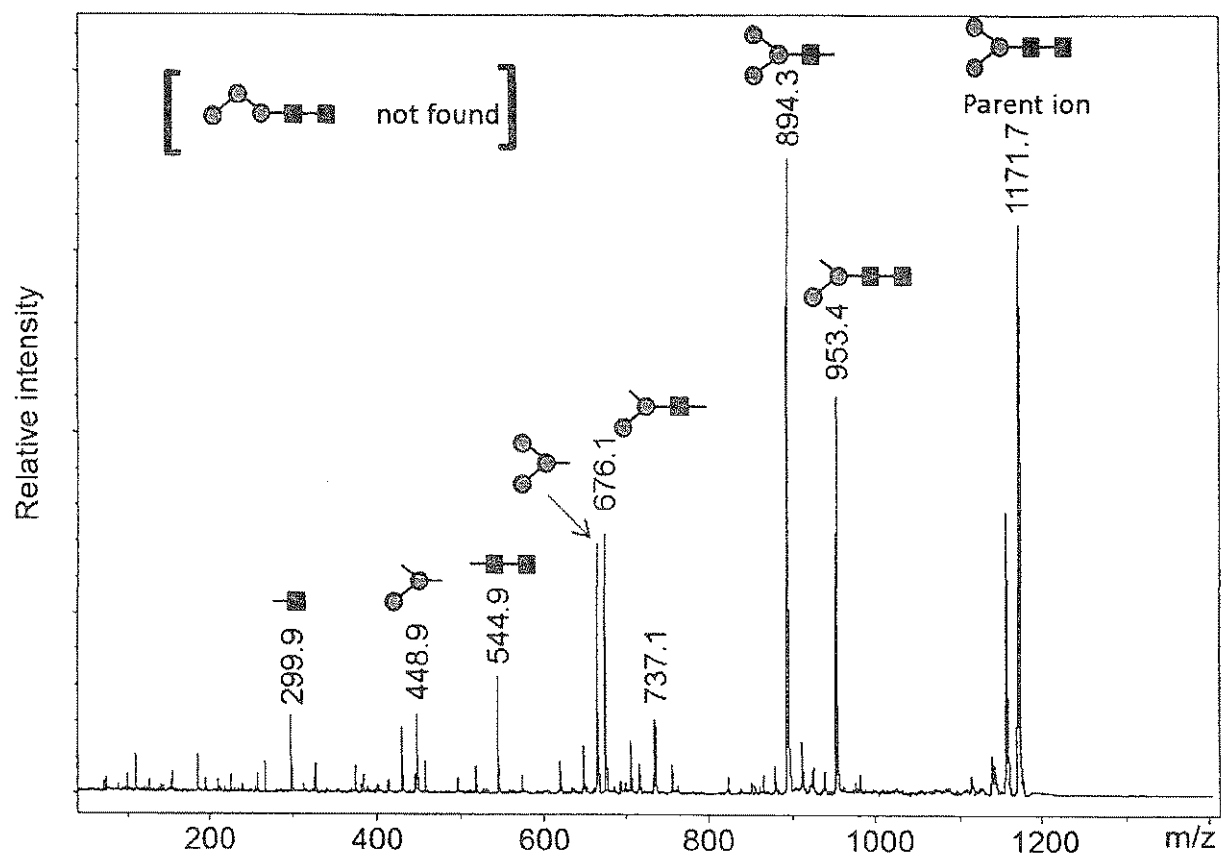


Figure 12

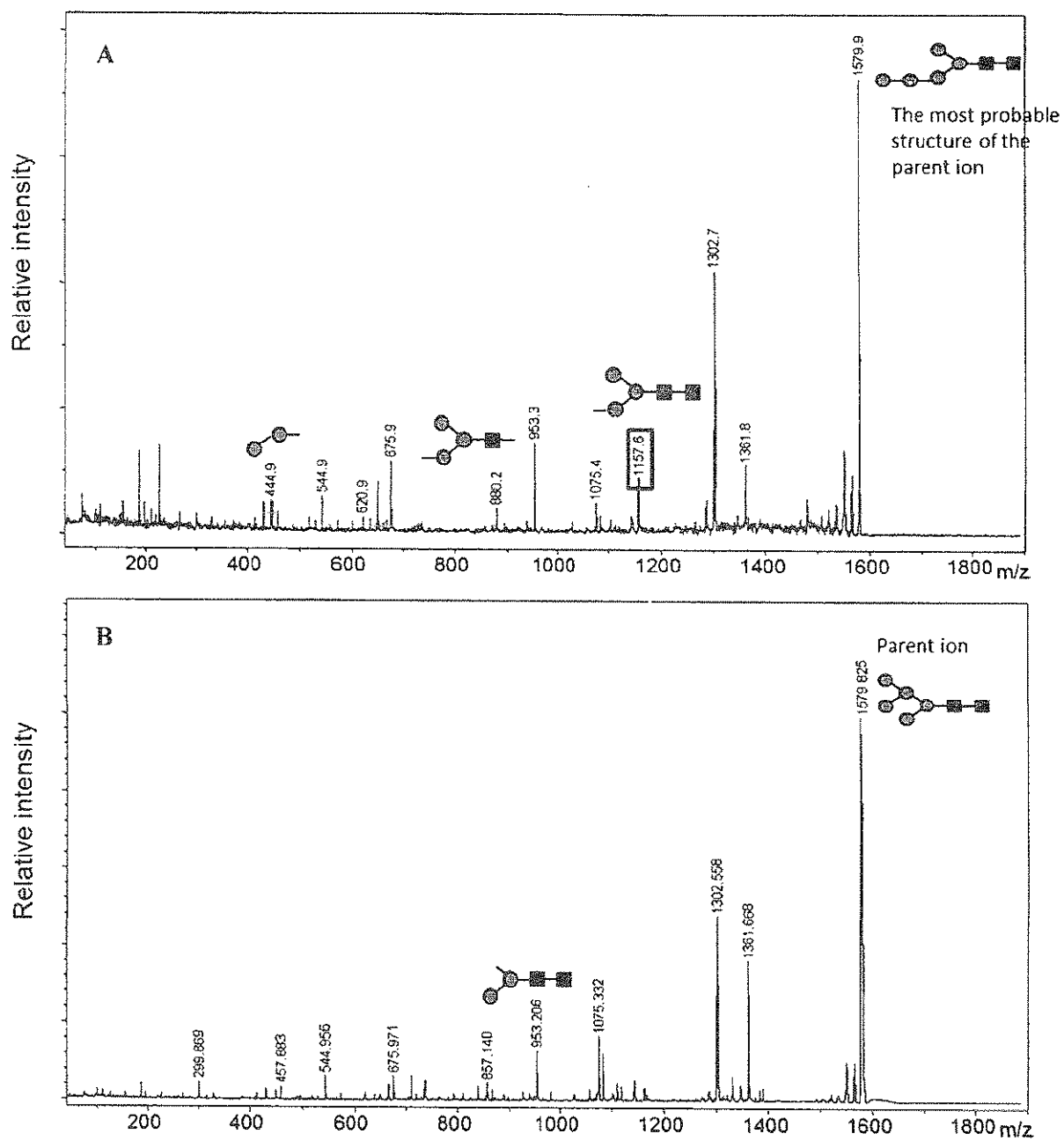


Figure 13

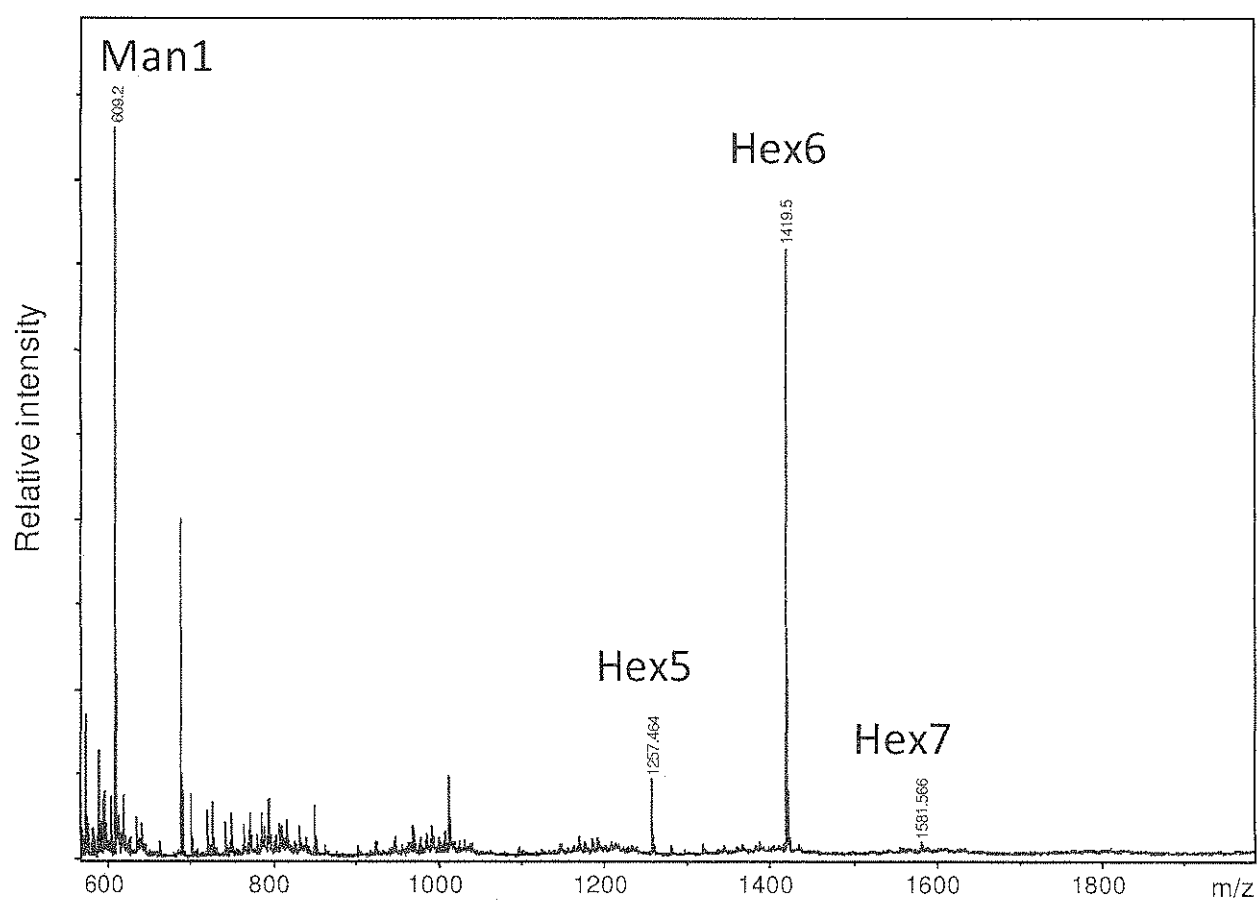


Figure 14

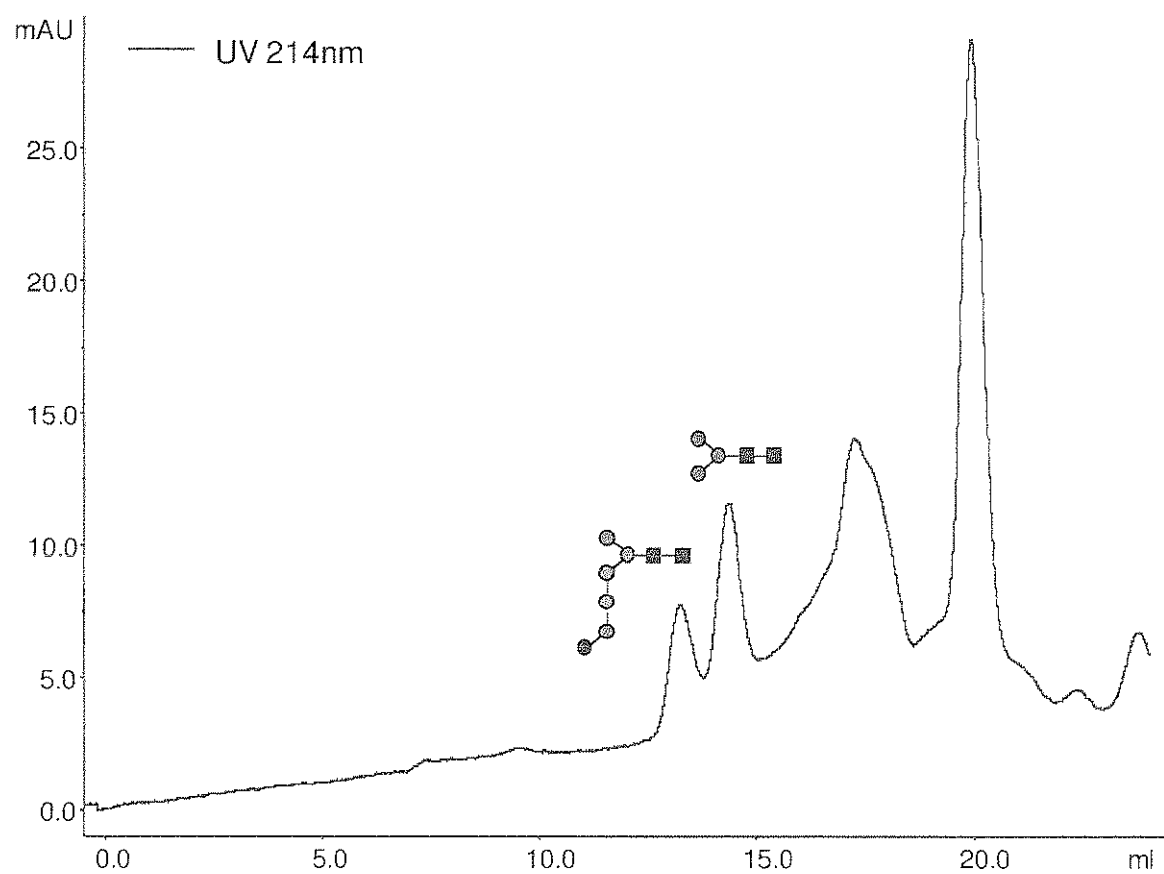


Figure 15

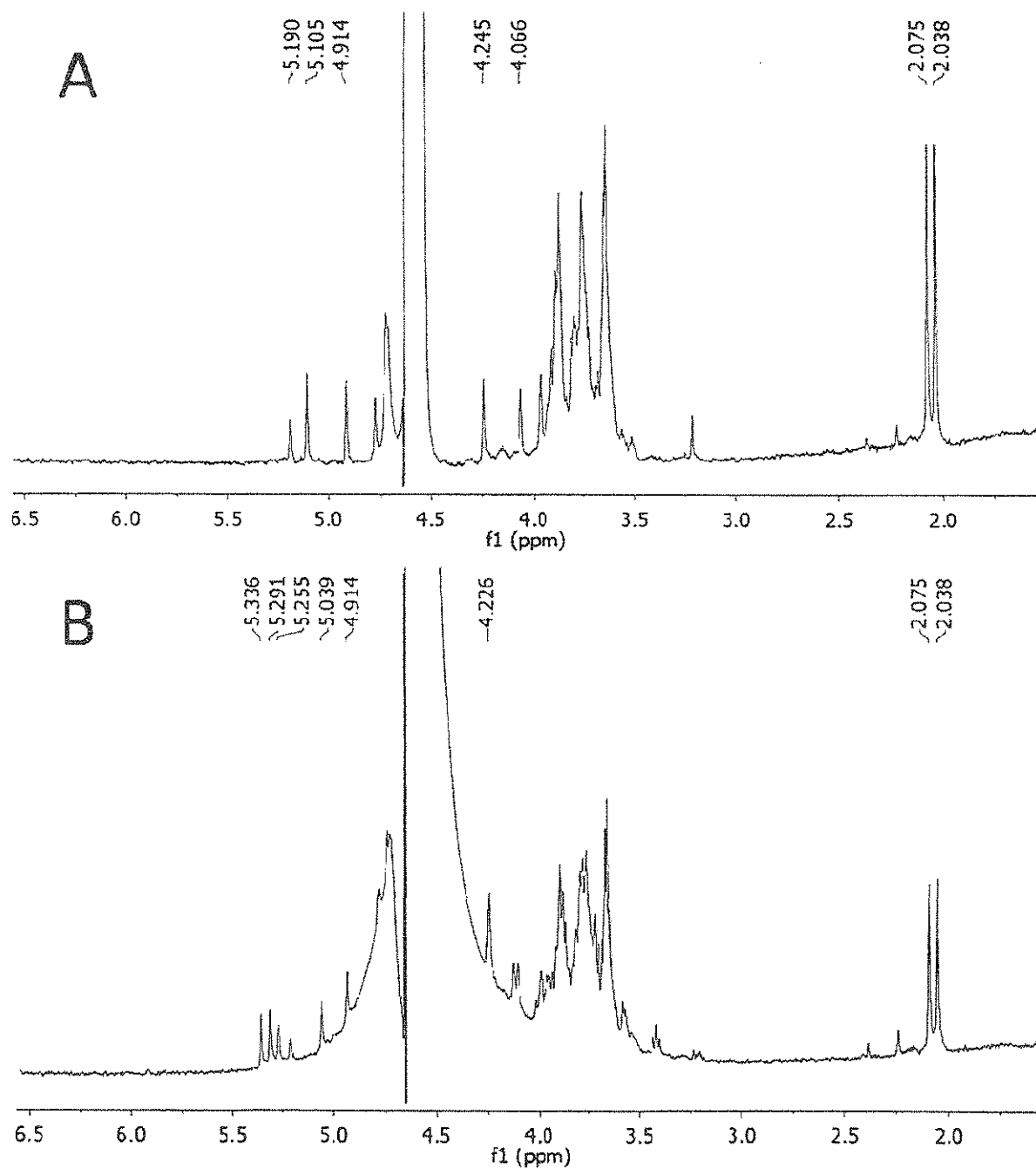


Figure 16

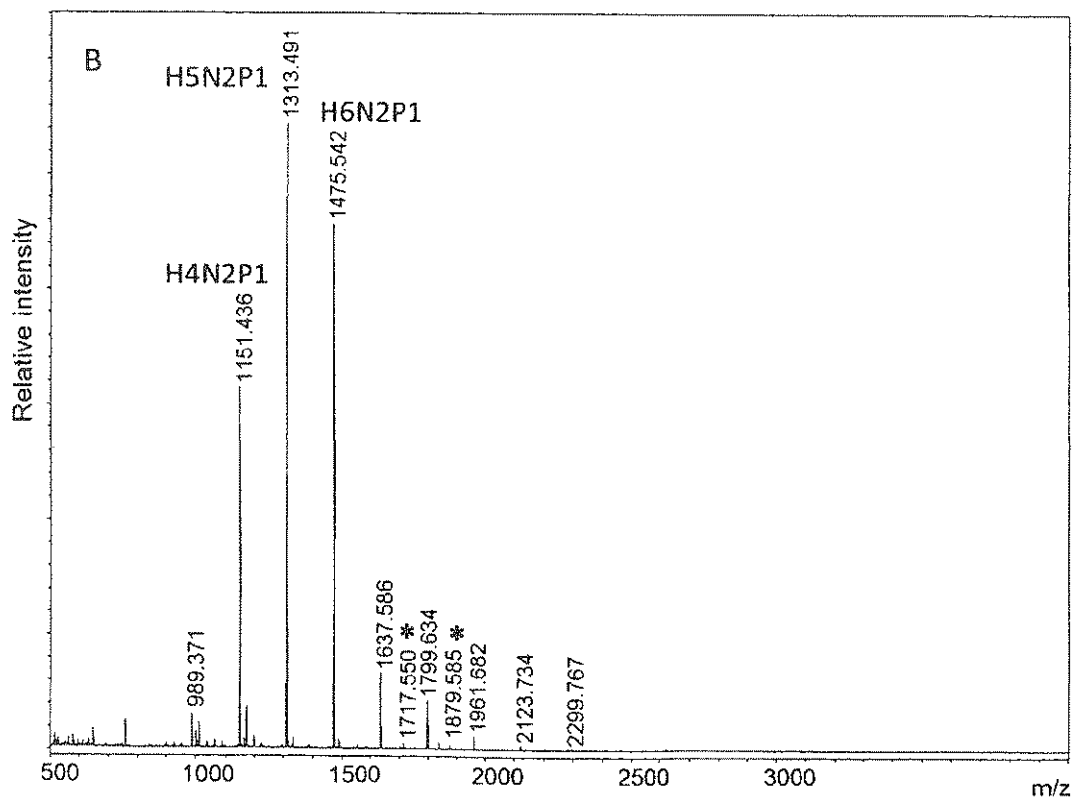
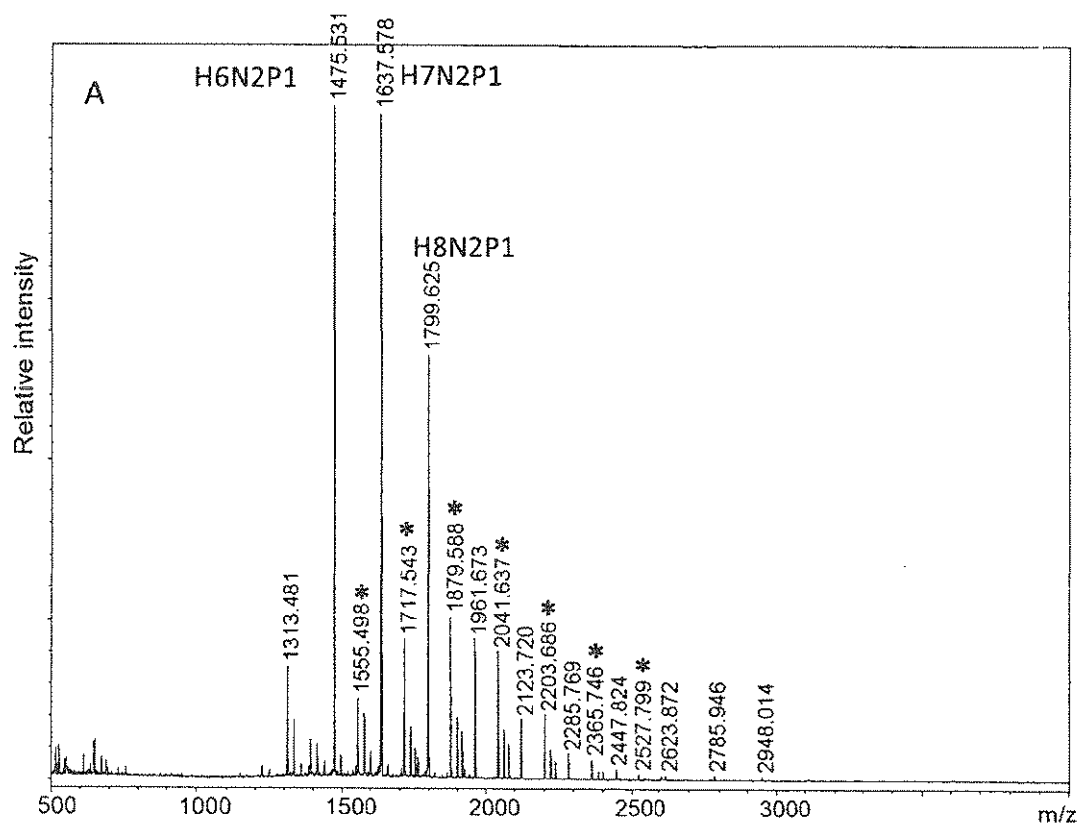


Figure 17

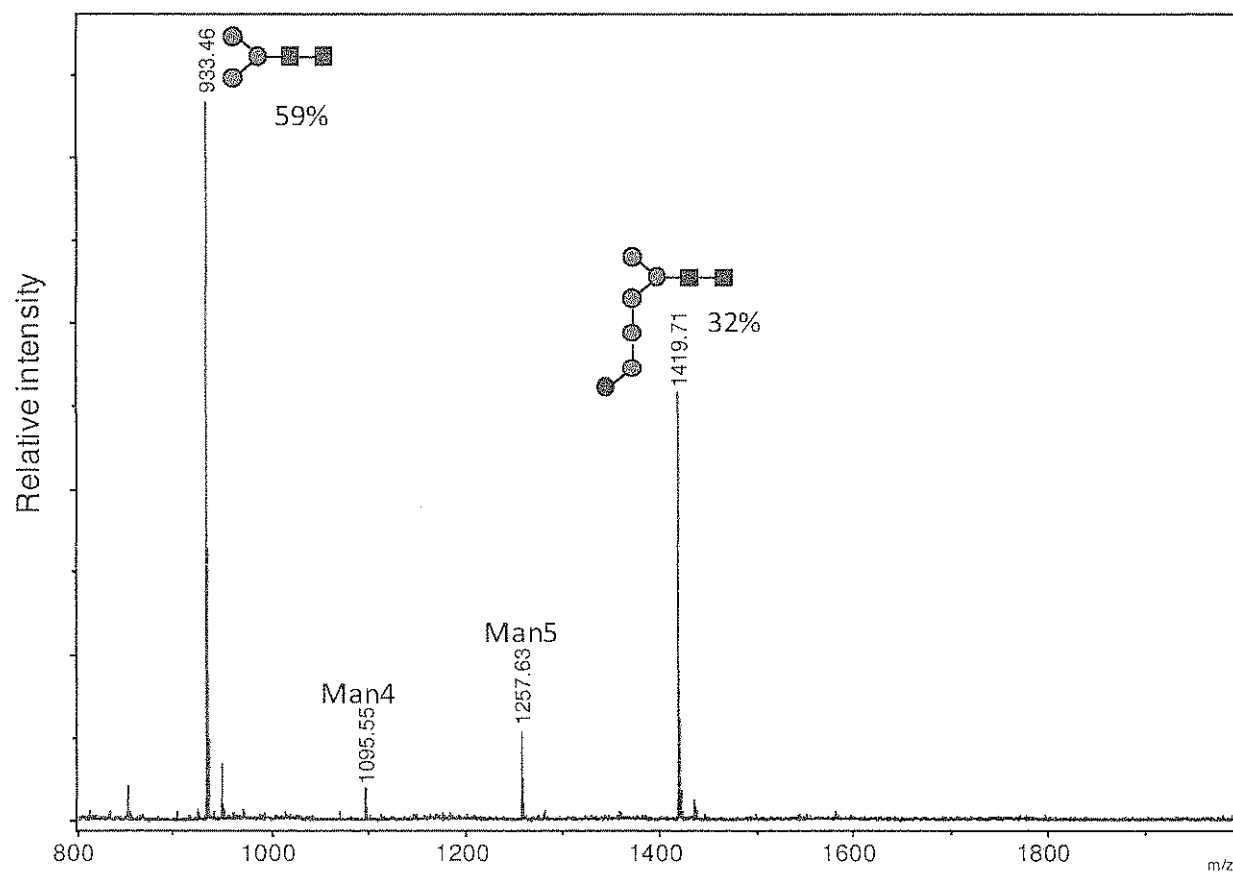


Figure 18

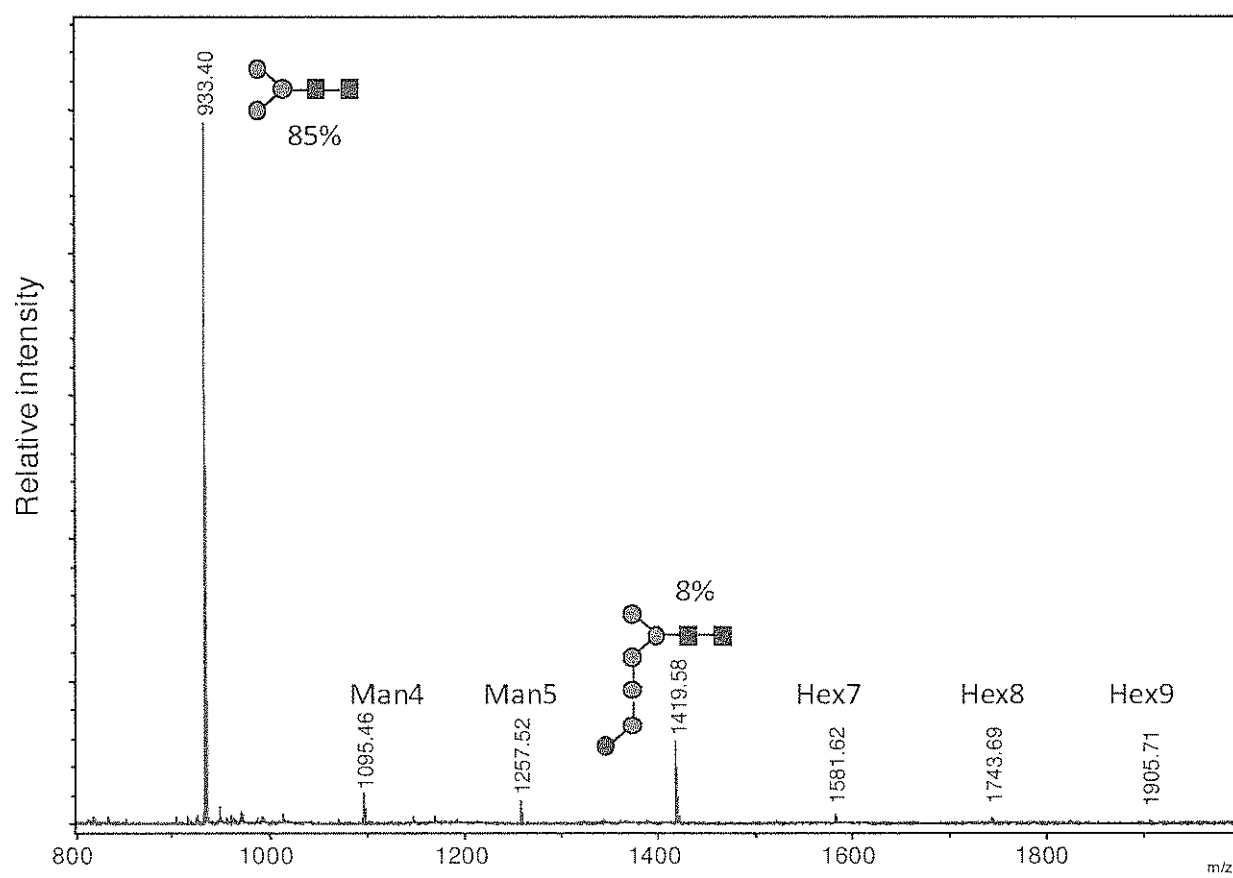


Figure 19

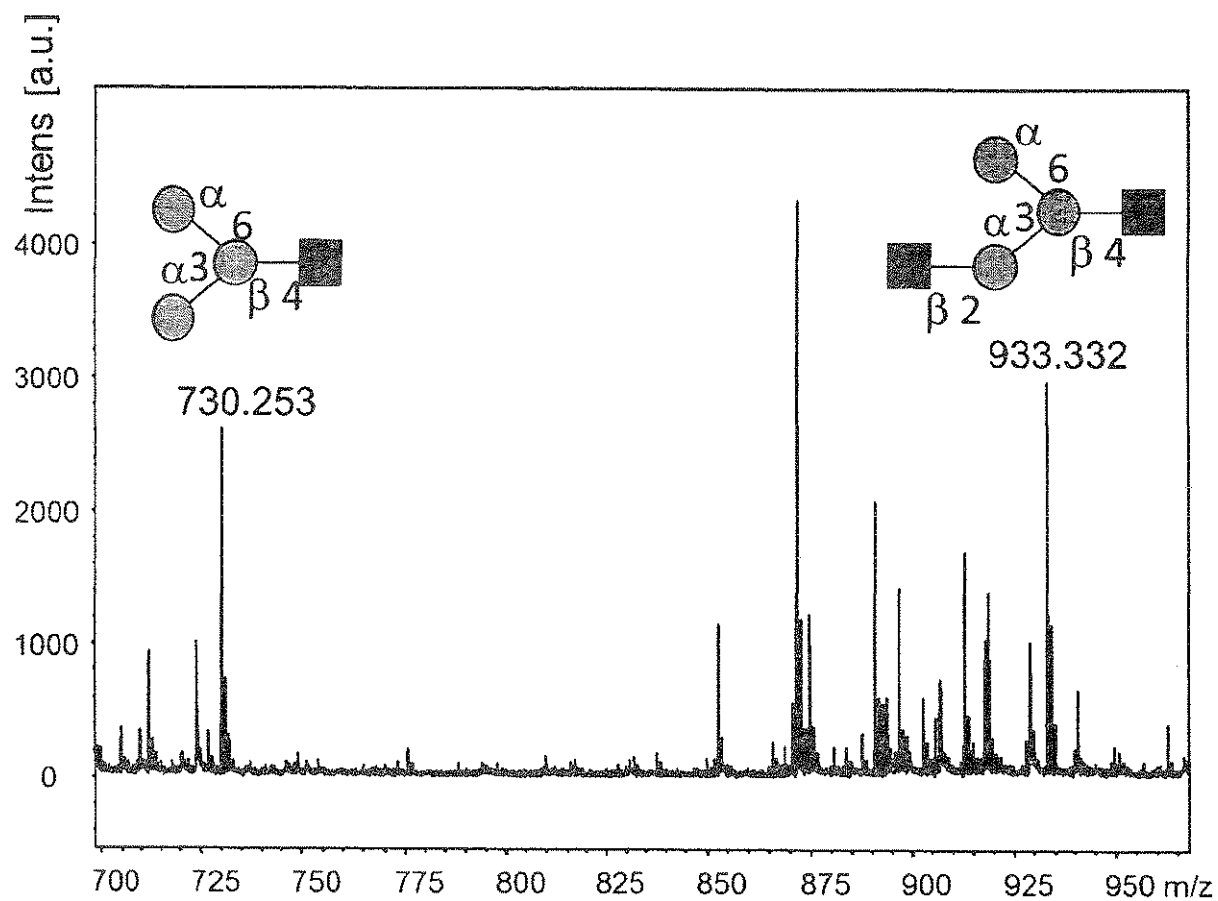


Figure 20

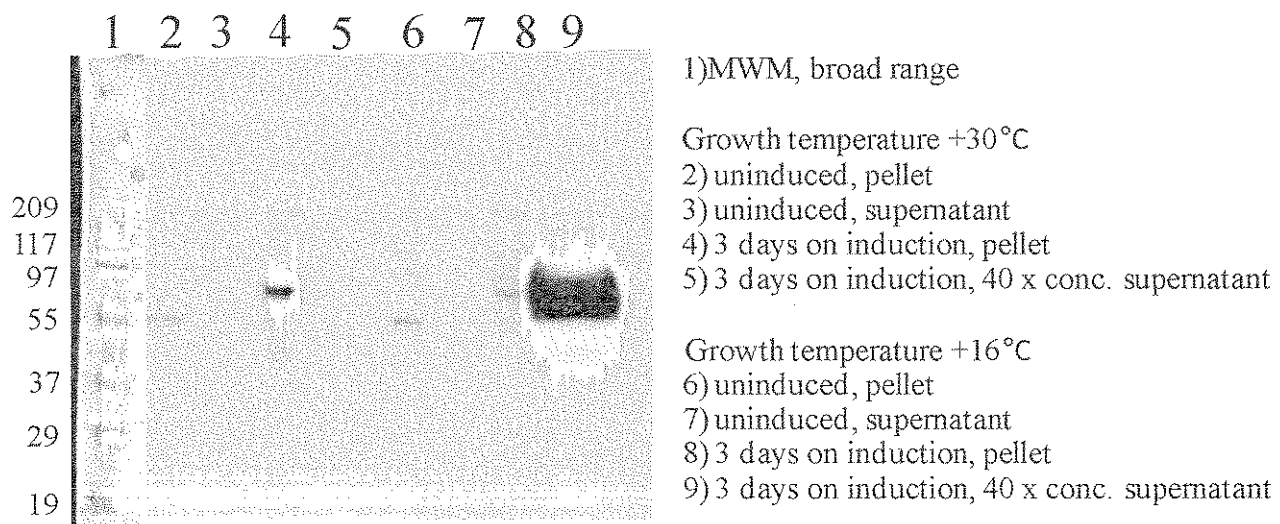


Figure 21

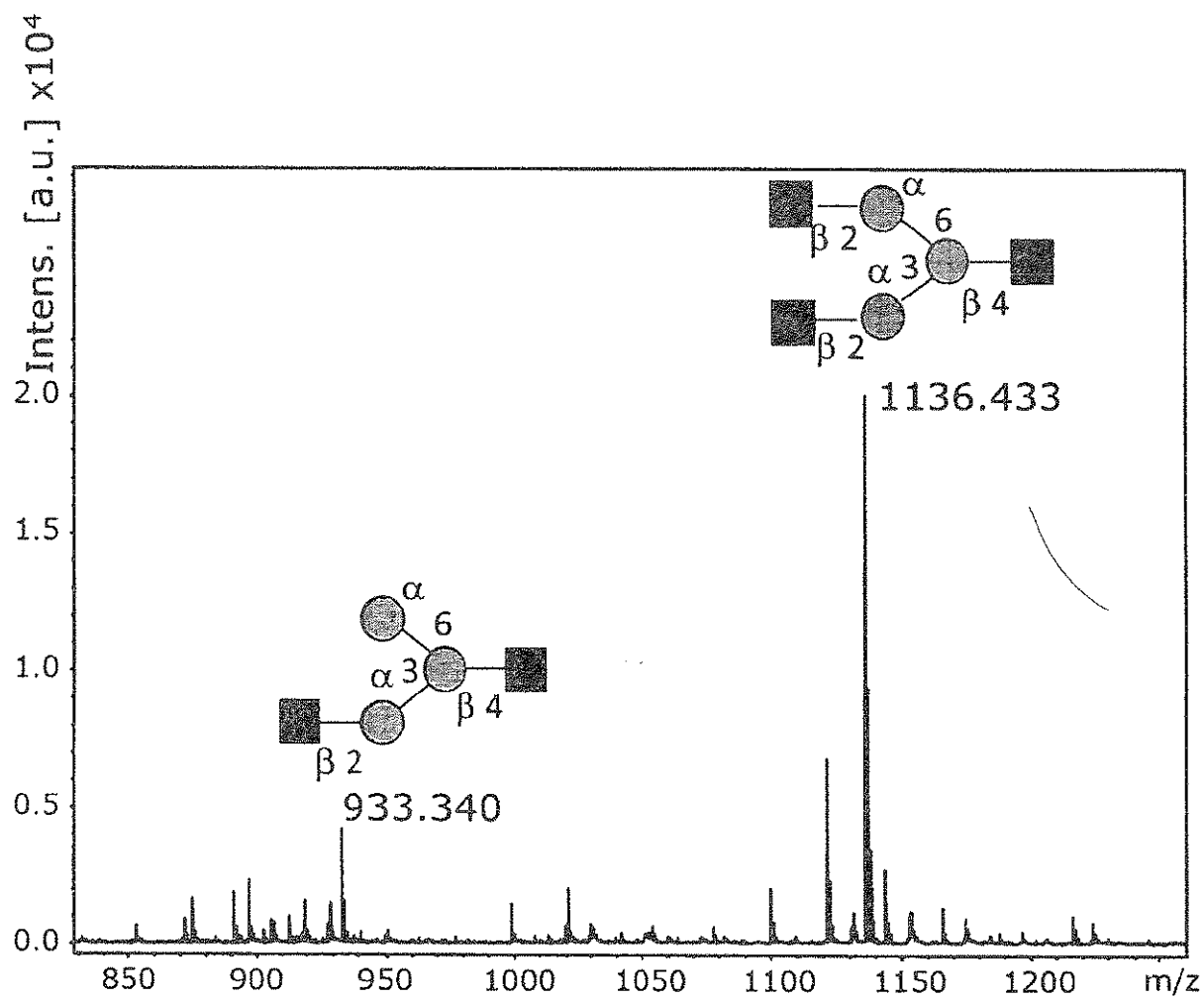
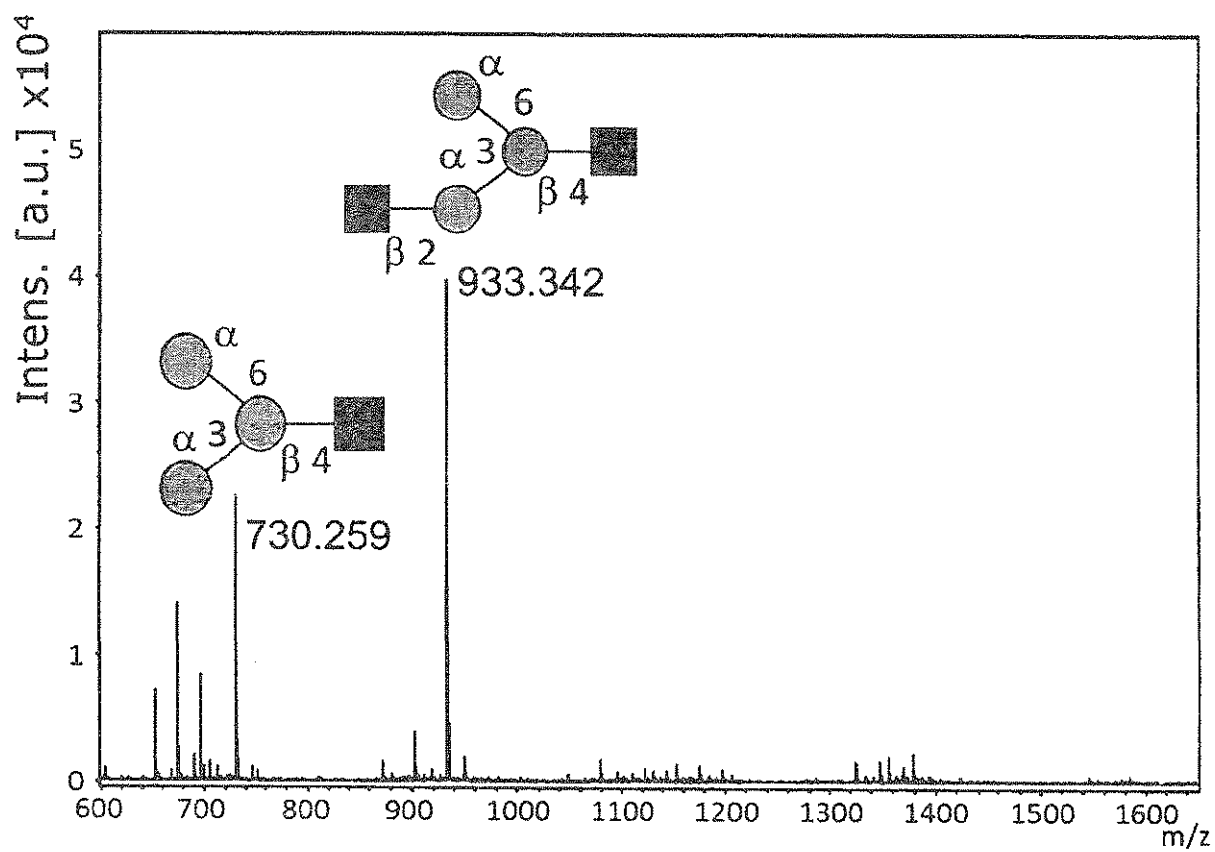


Figure 22



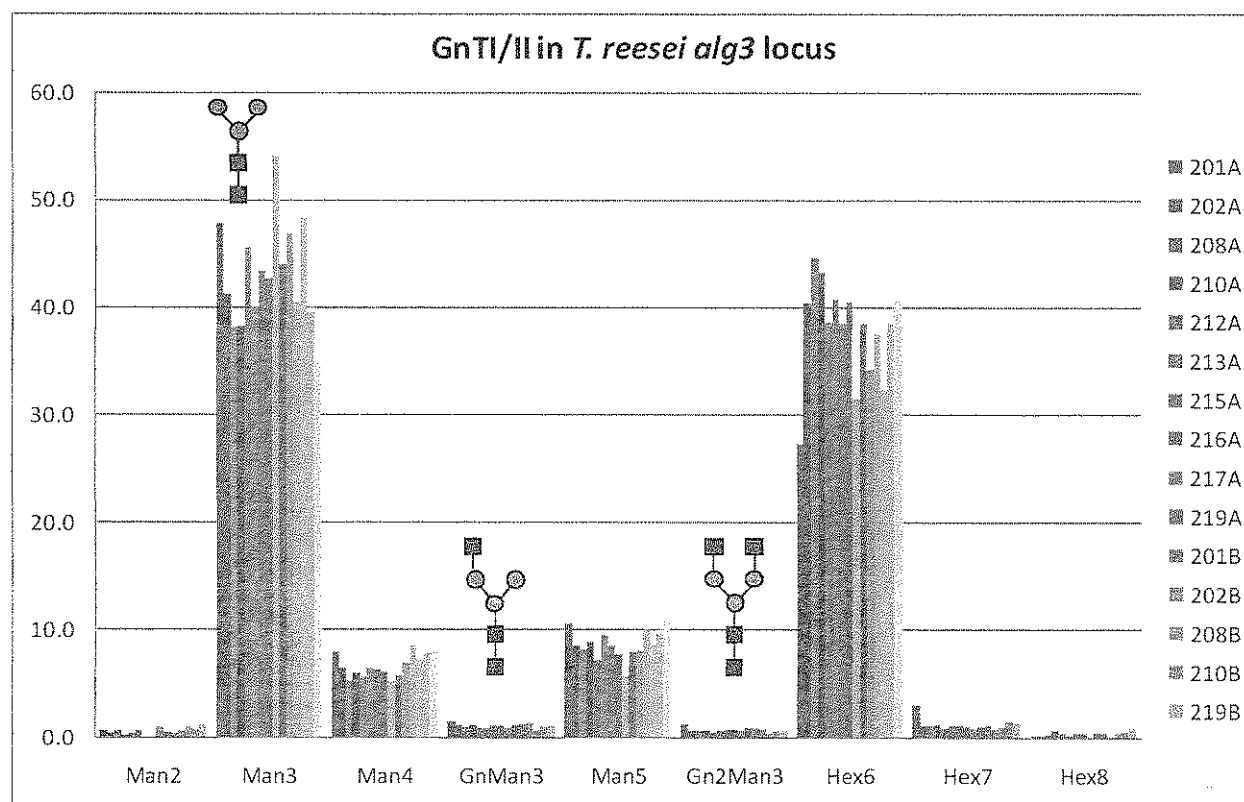


Figure 24

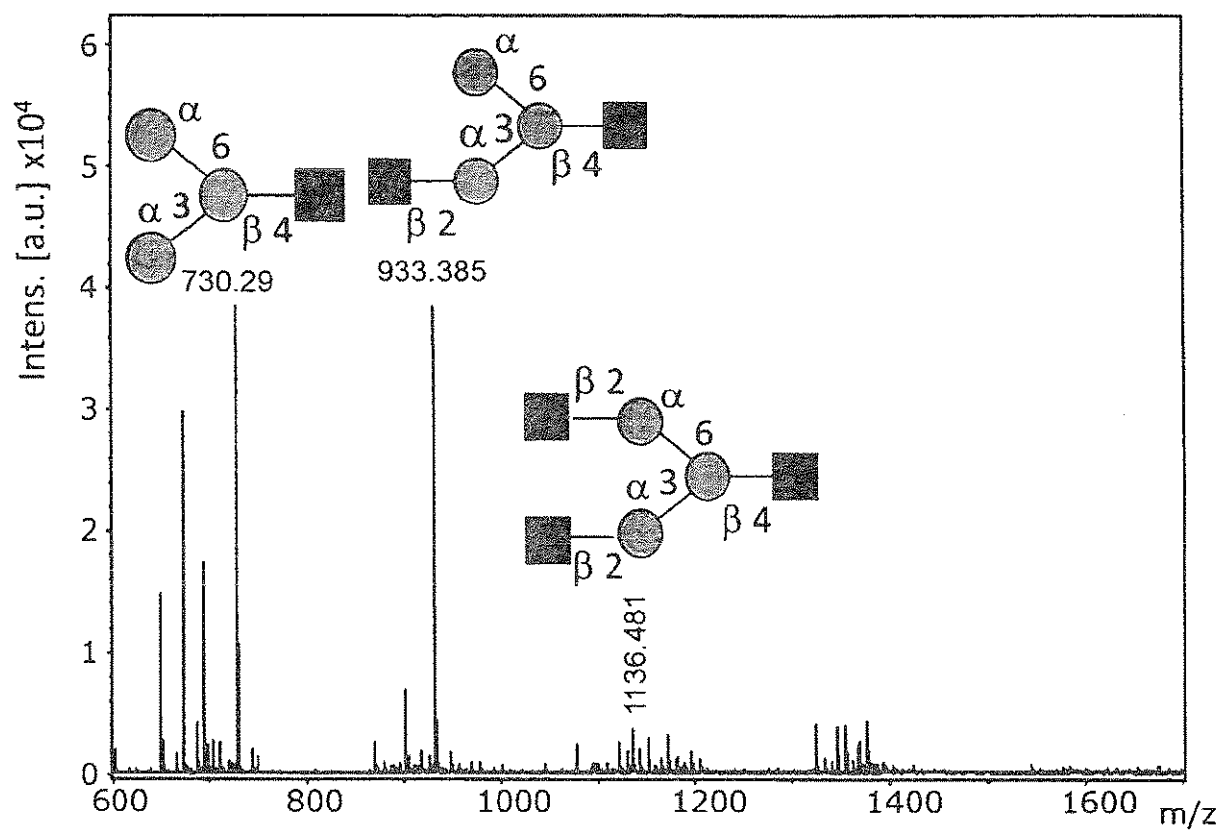


Figure 25

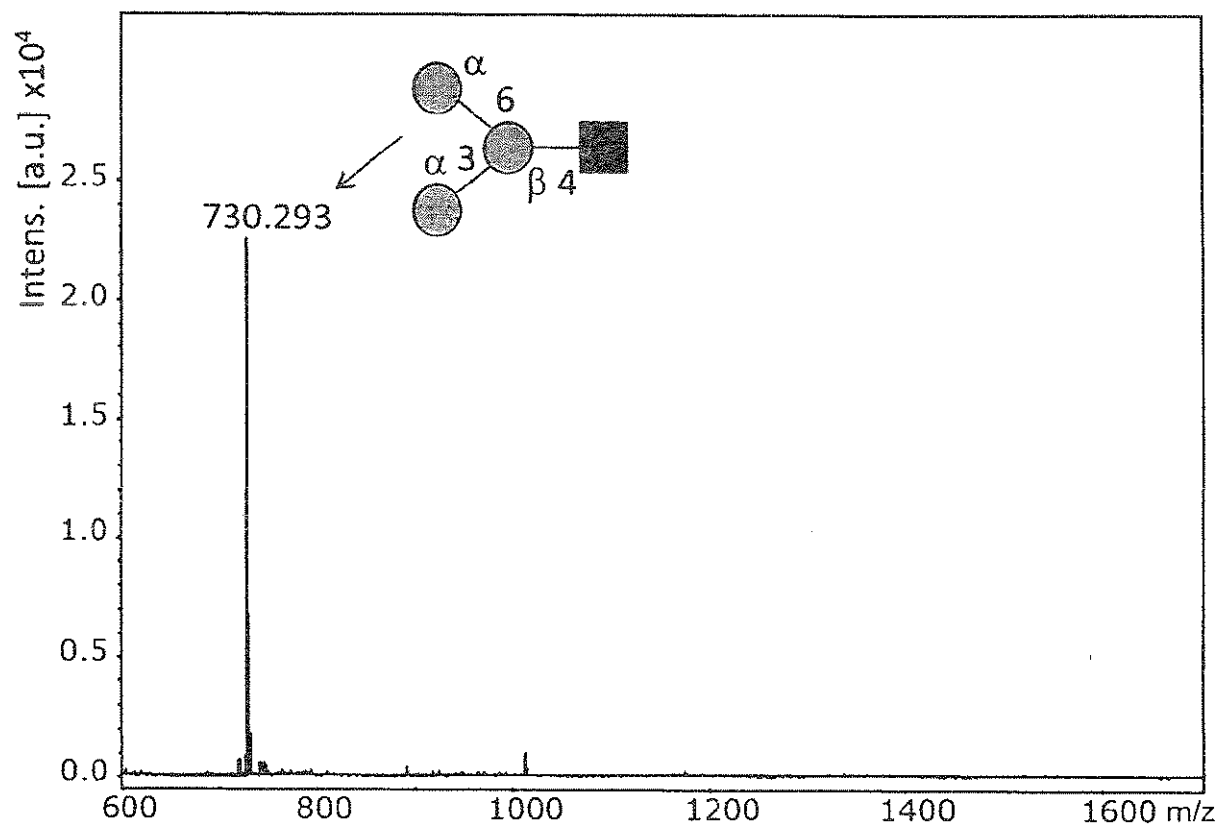


Figure 26

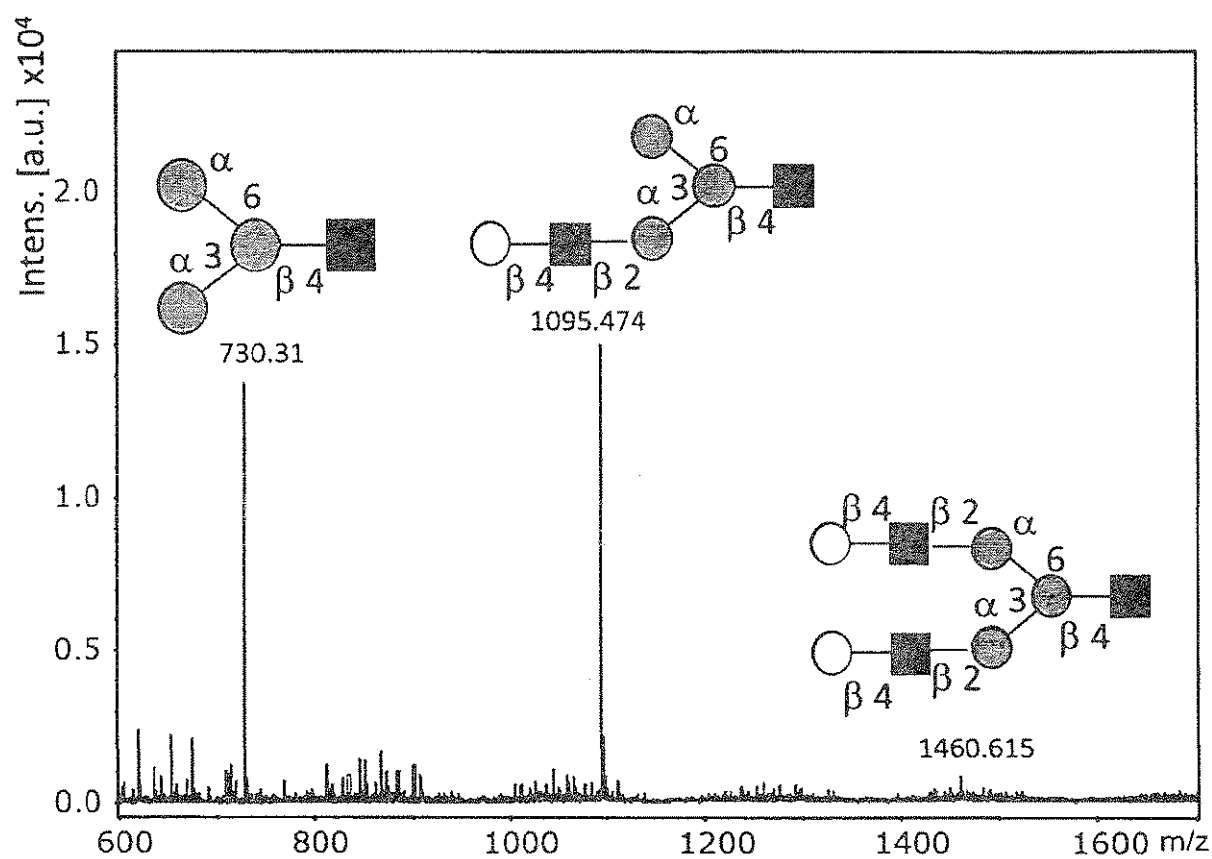
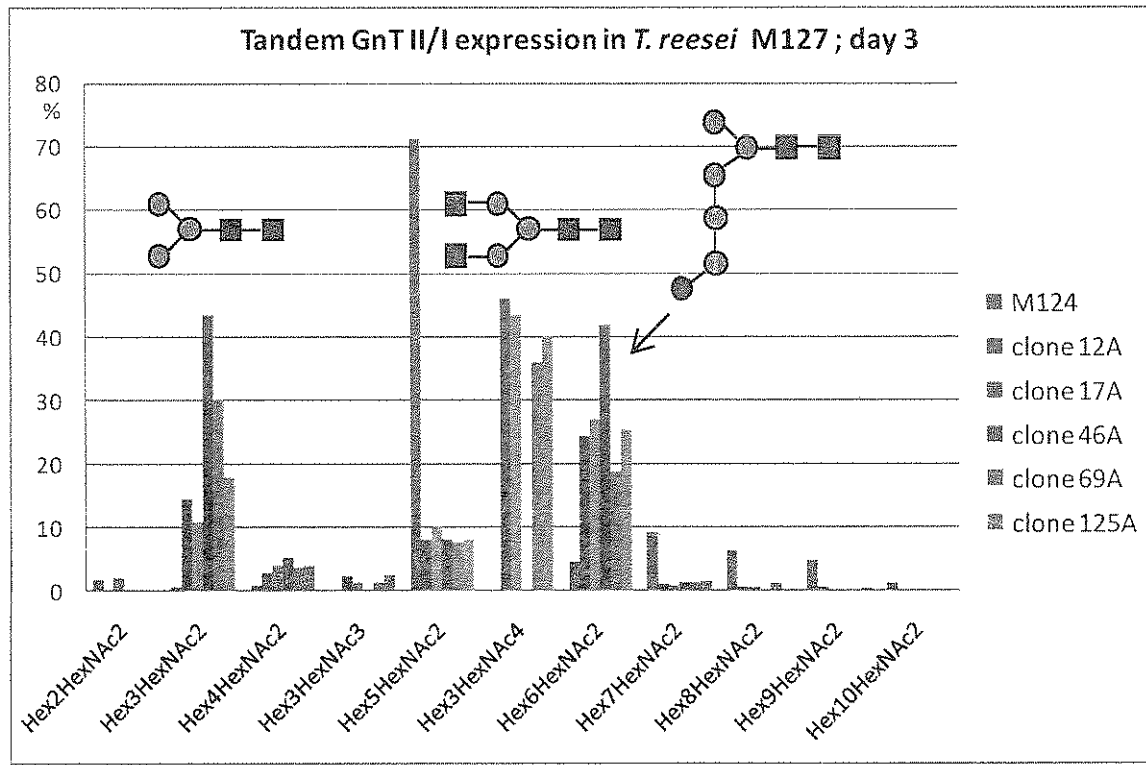


Figure 27

A.



B.

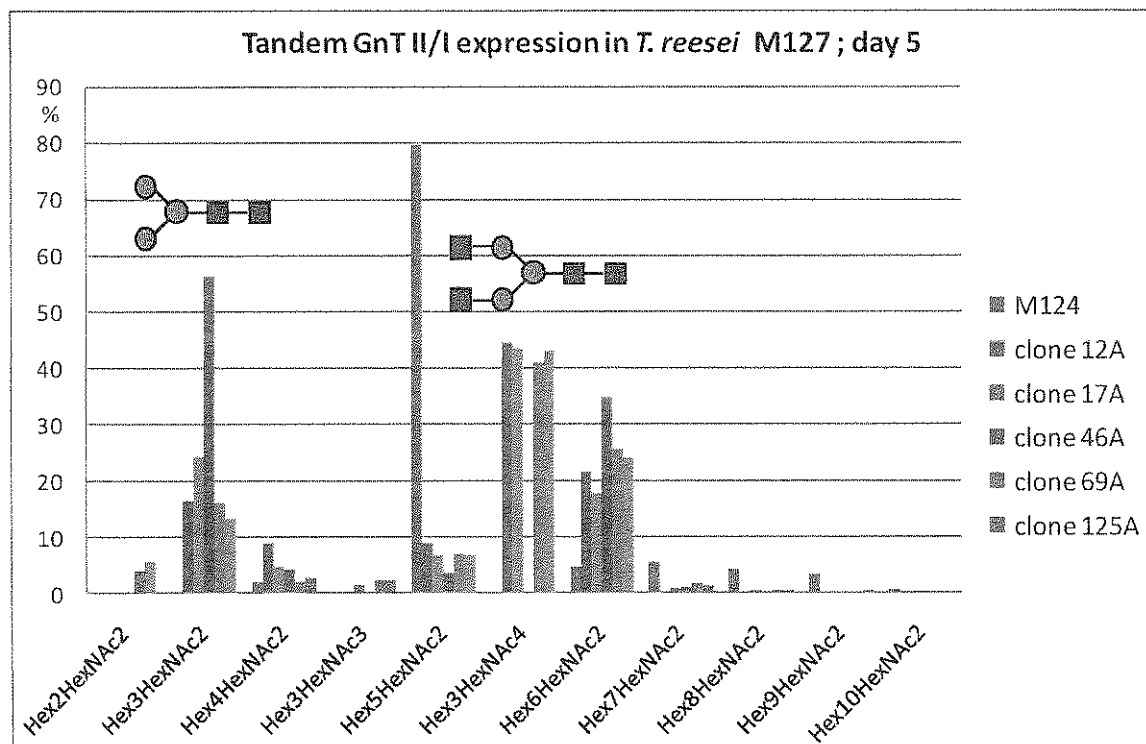
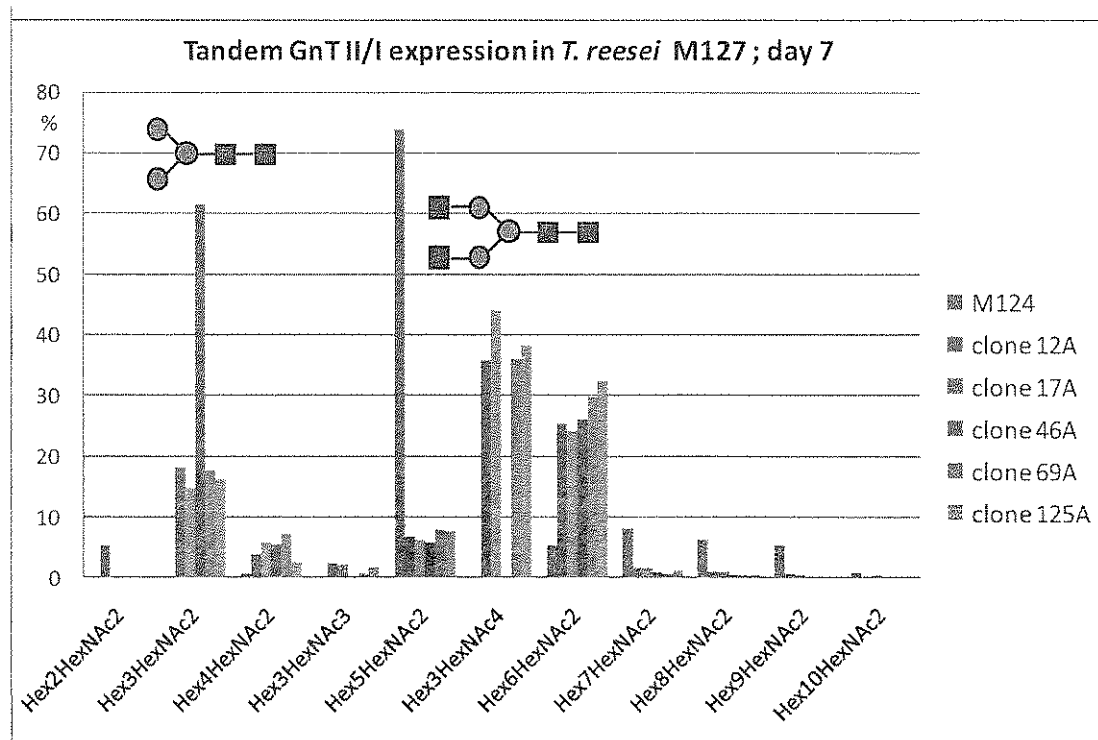


Figure 27 (cont.)

C.



D.

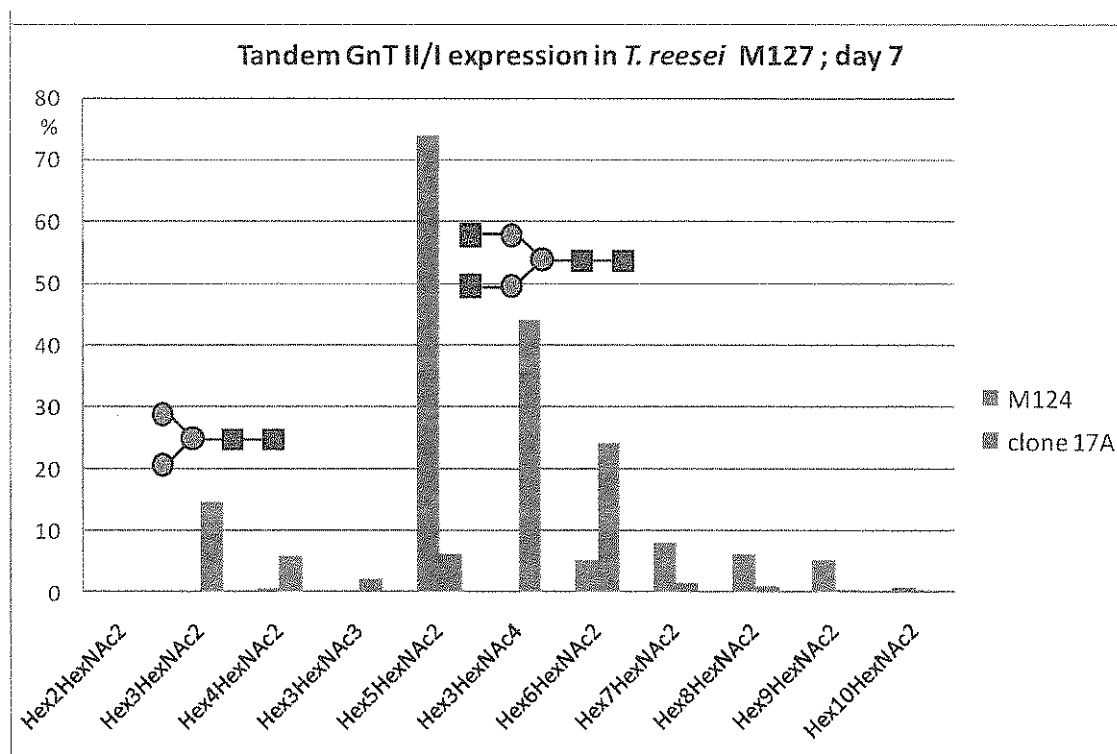


Figure 27 (cont.)

E.

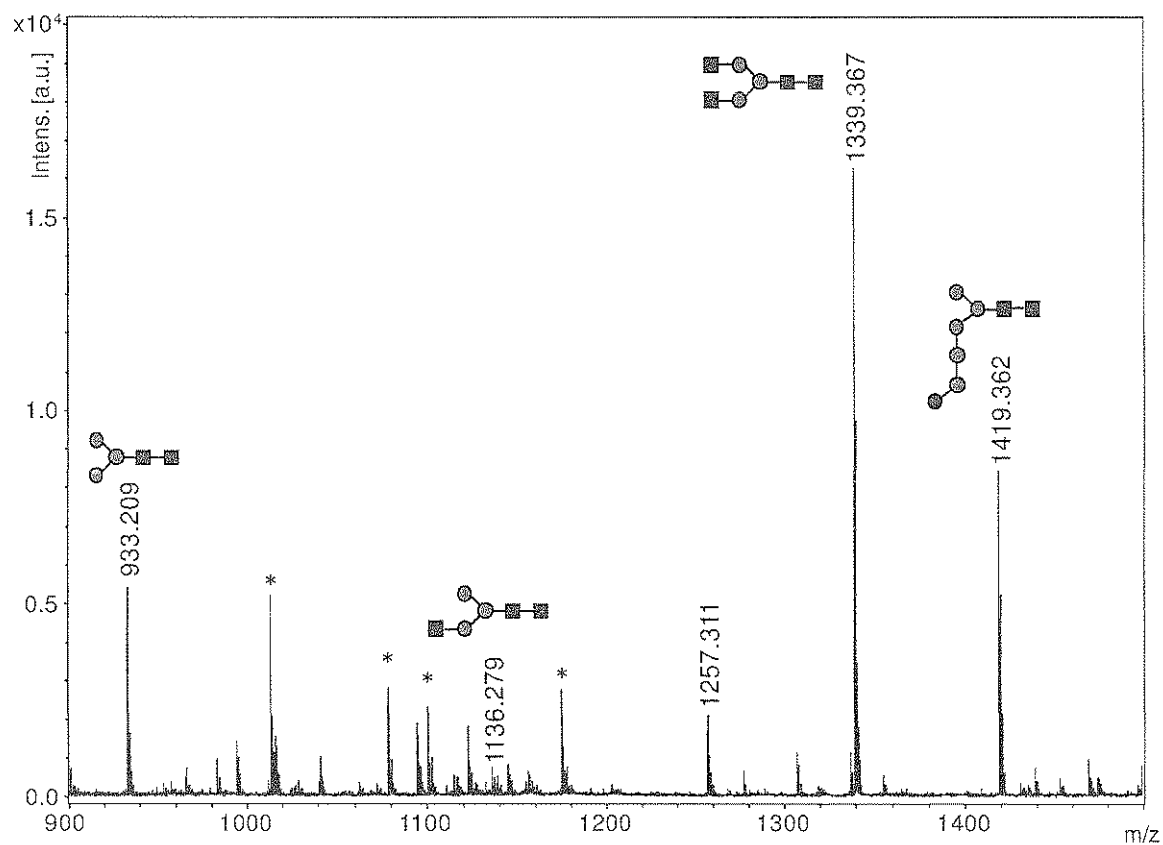
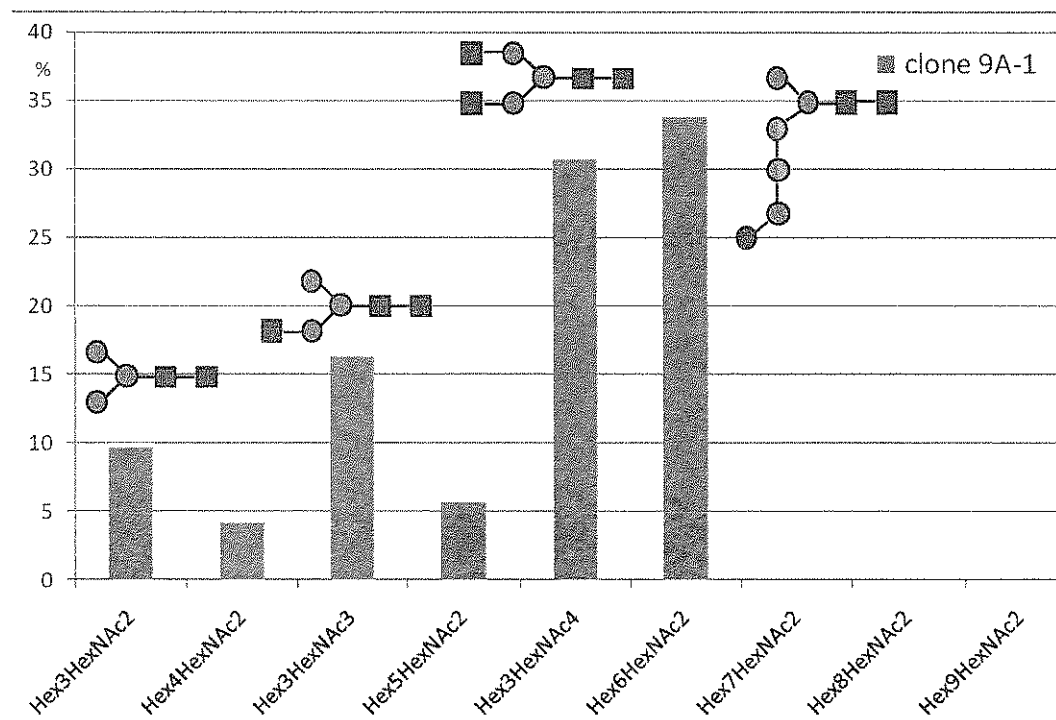


Figure 28

A.



B.

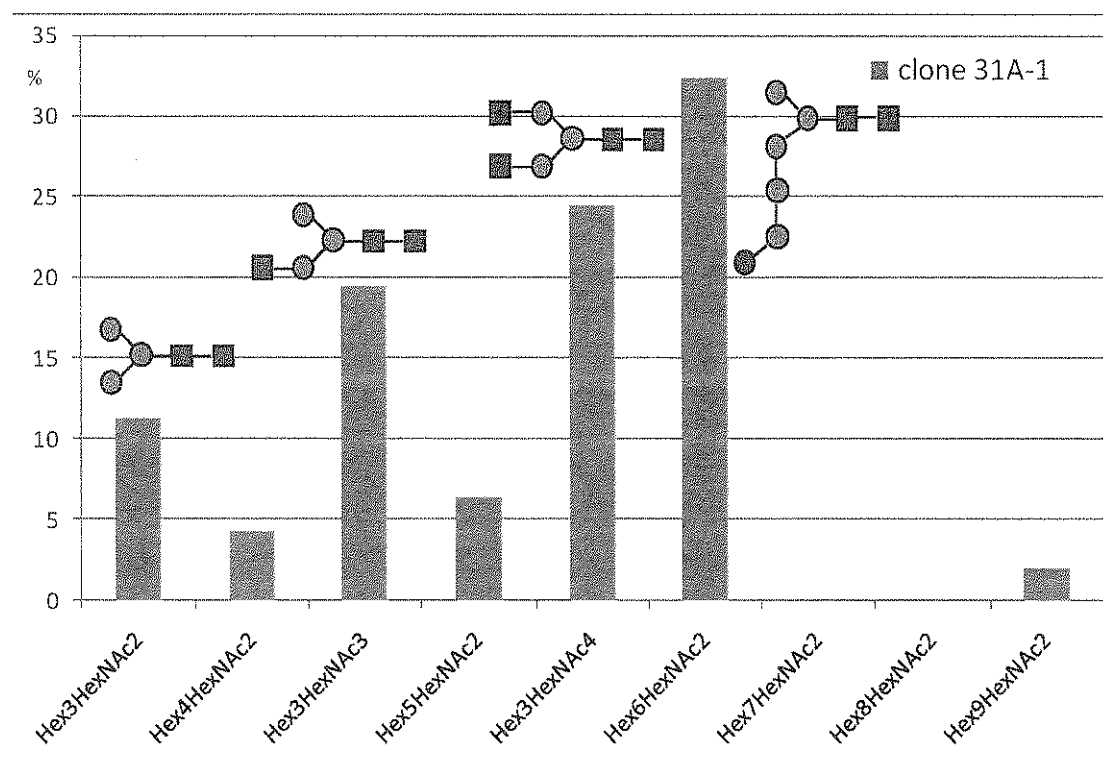


Figure 28 (cont.)

C.

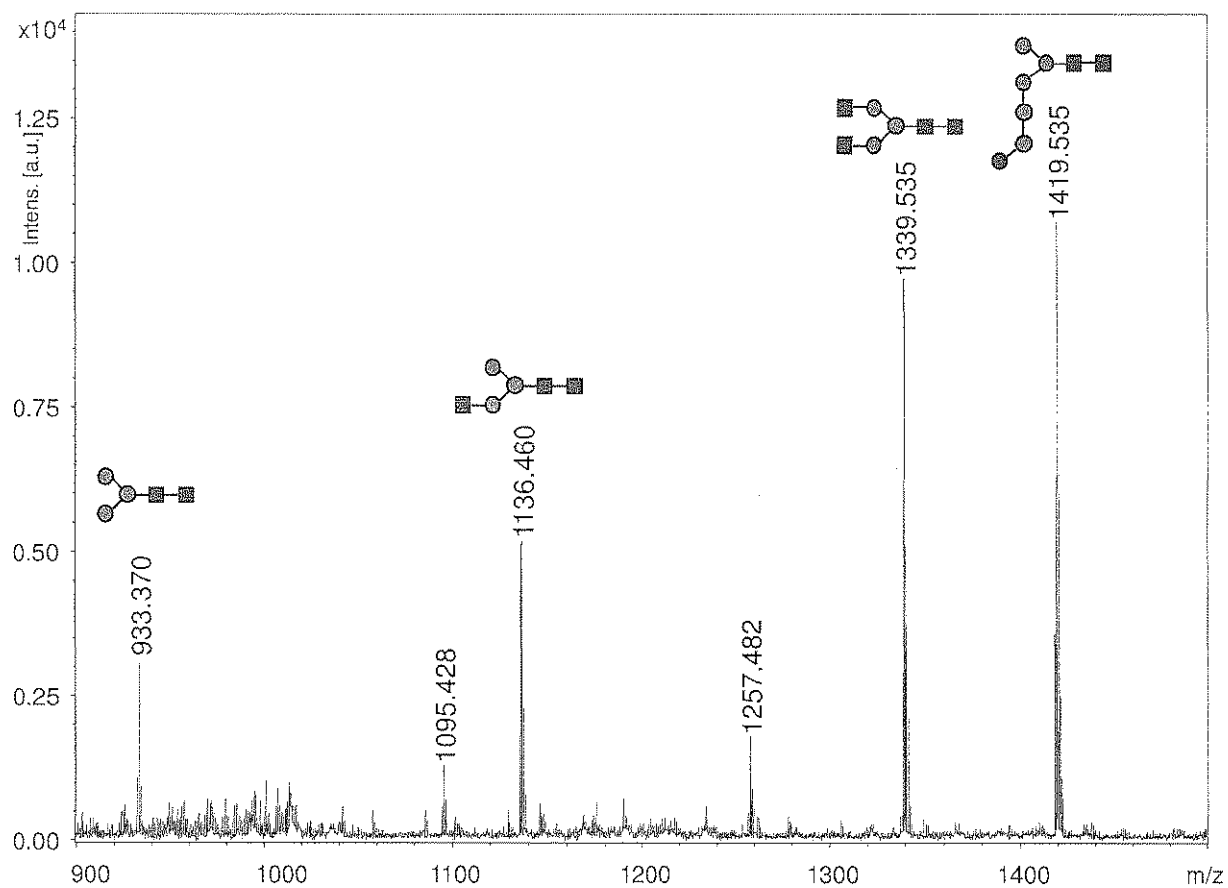


Figure 29

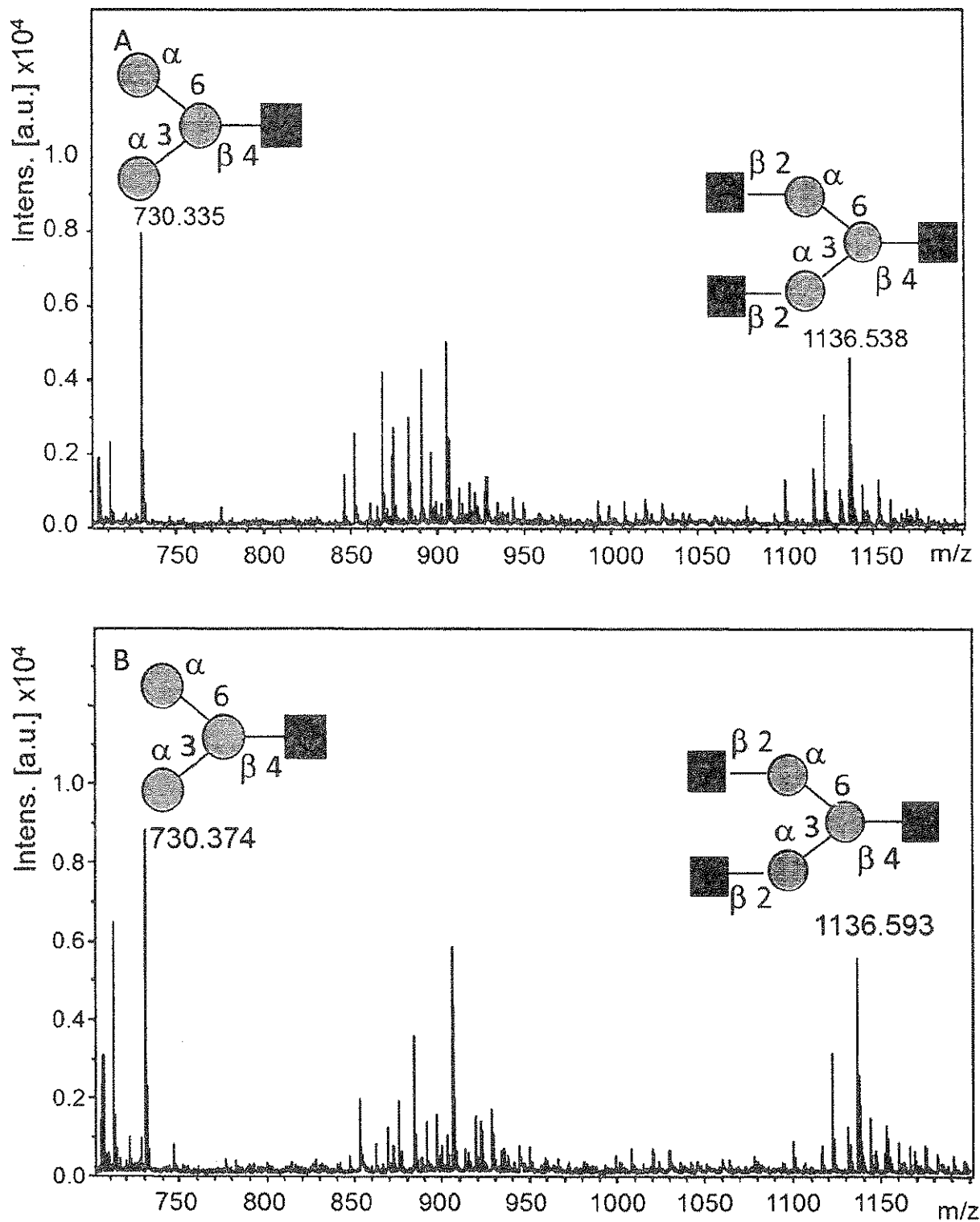


Figure 30

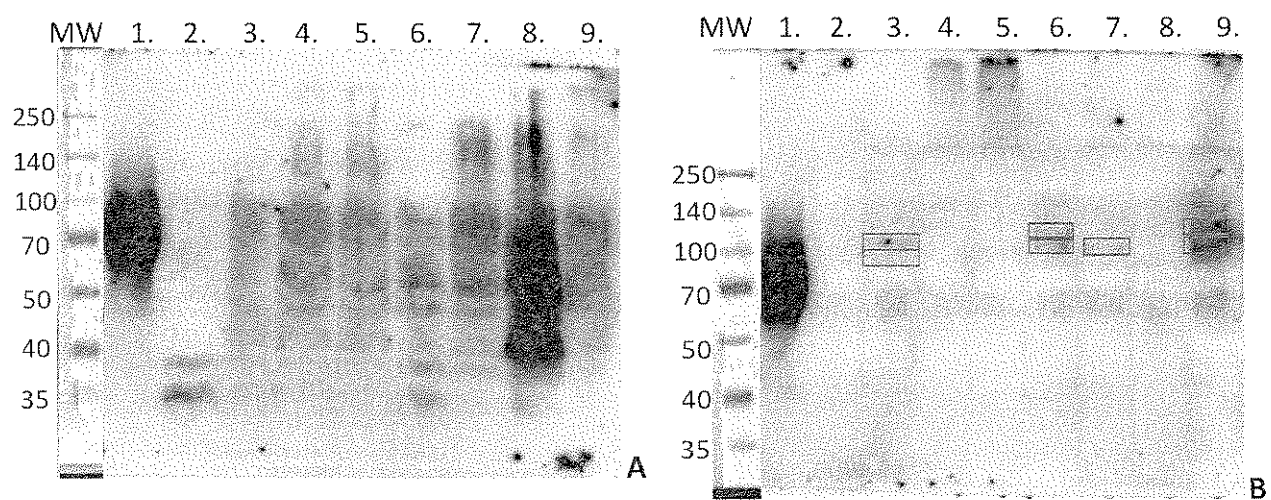
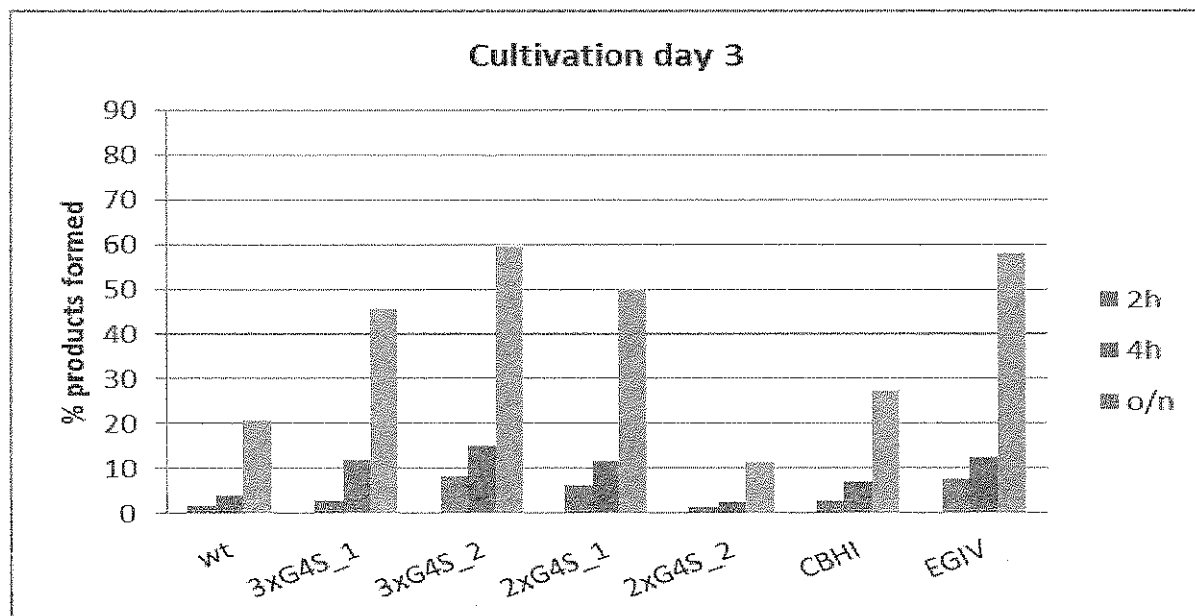


Figure 31

A.



B.

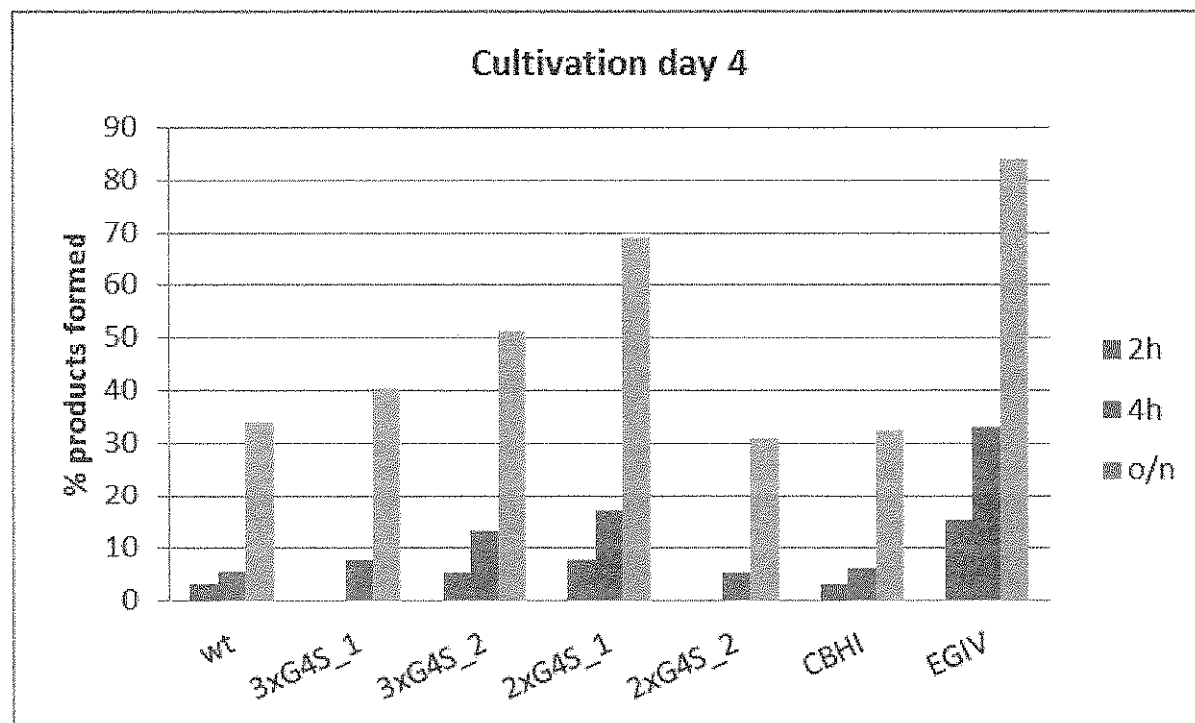


Figure 32

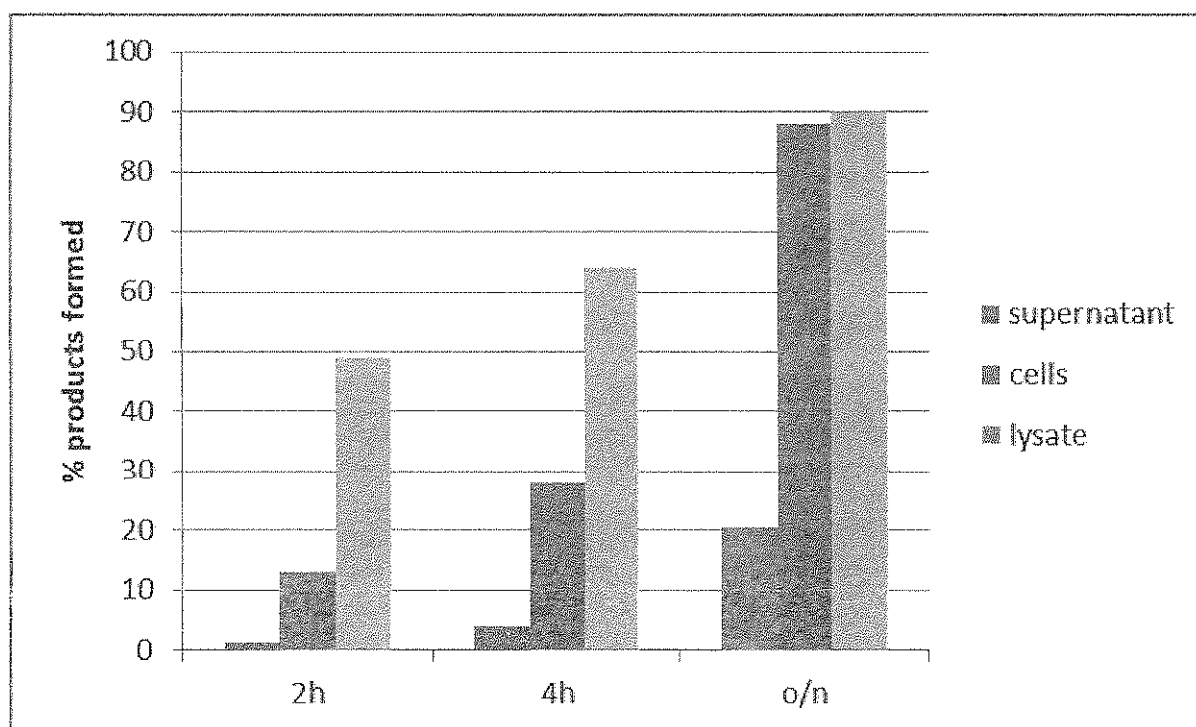


Figure 33

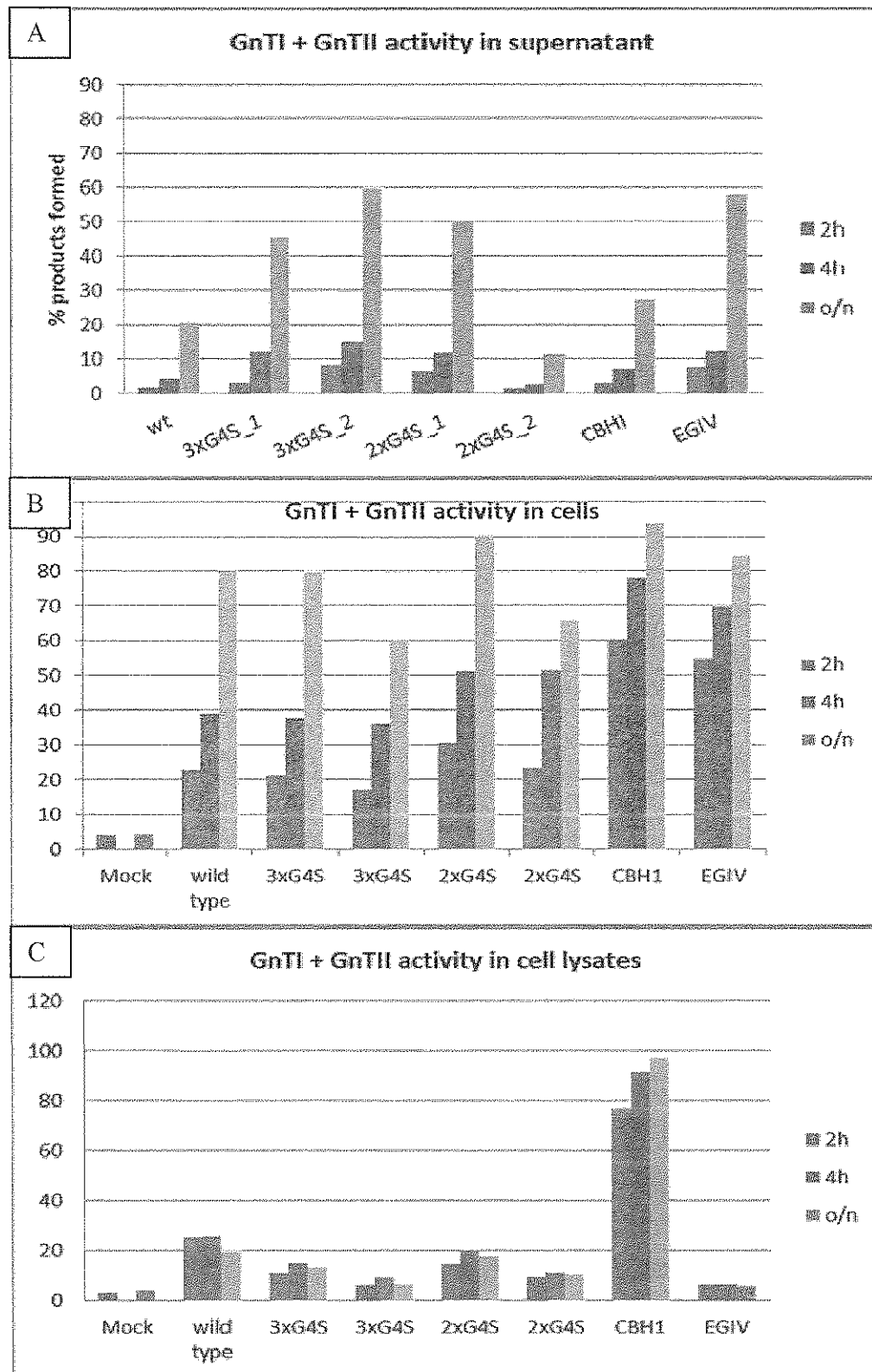


Figure 34

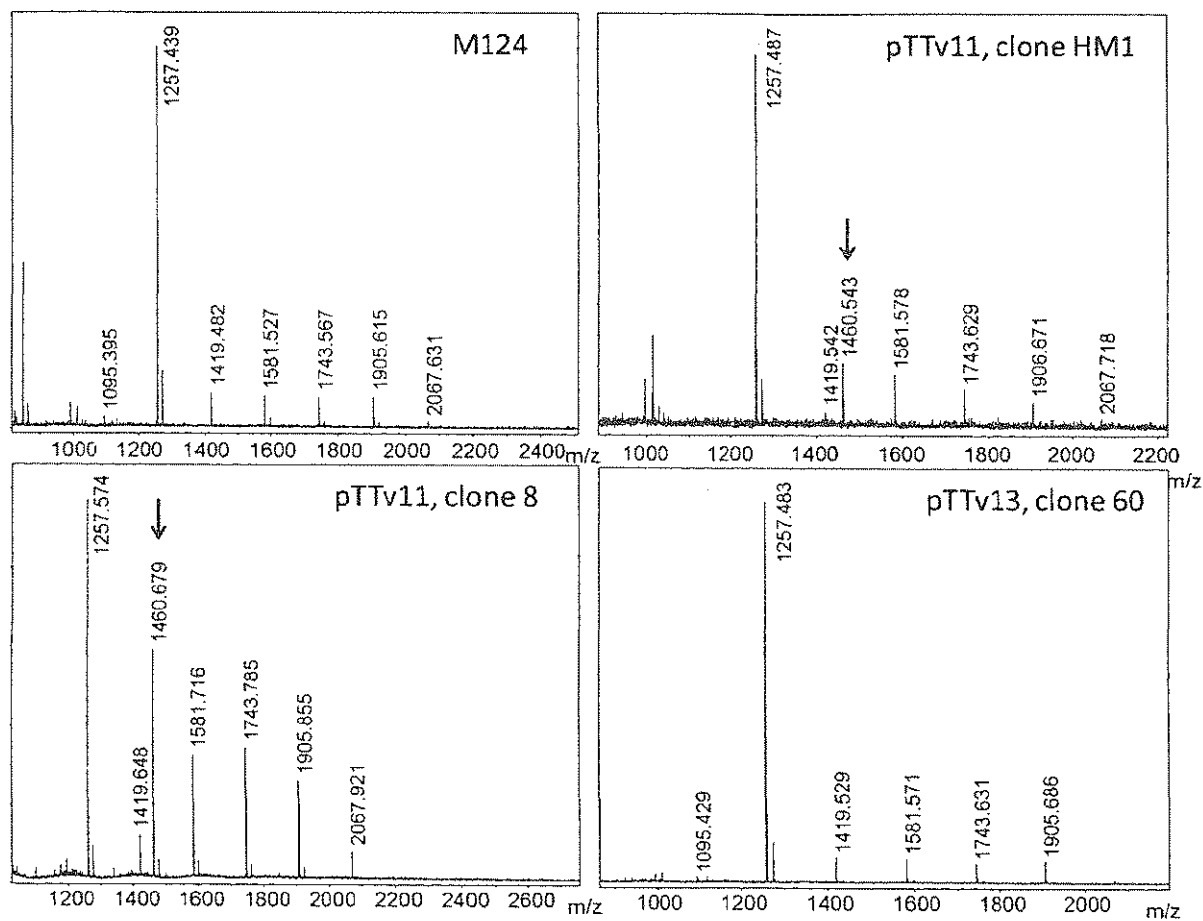


Figure 35

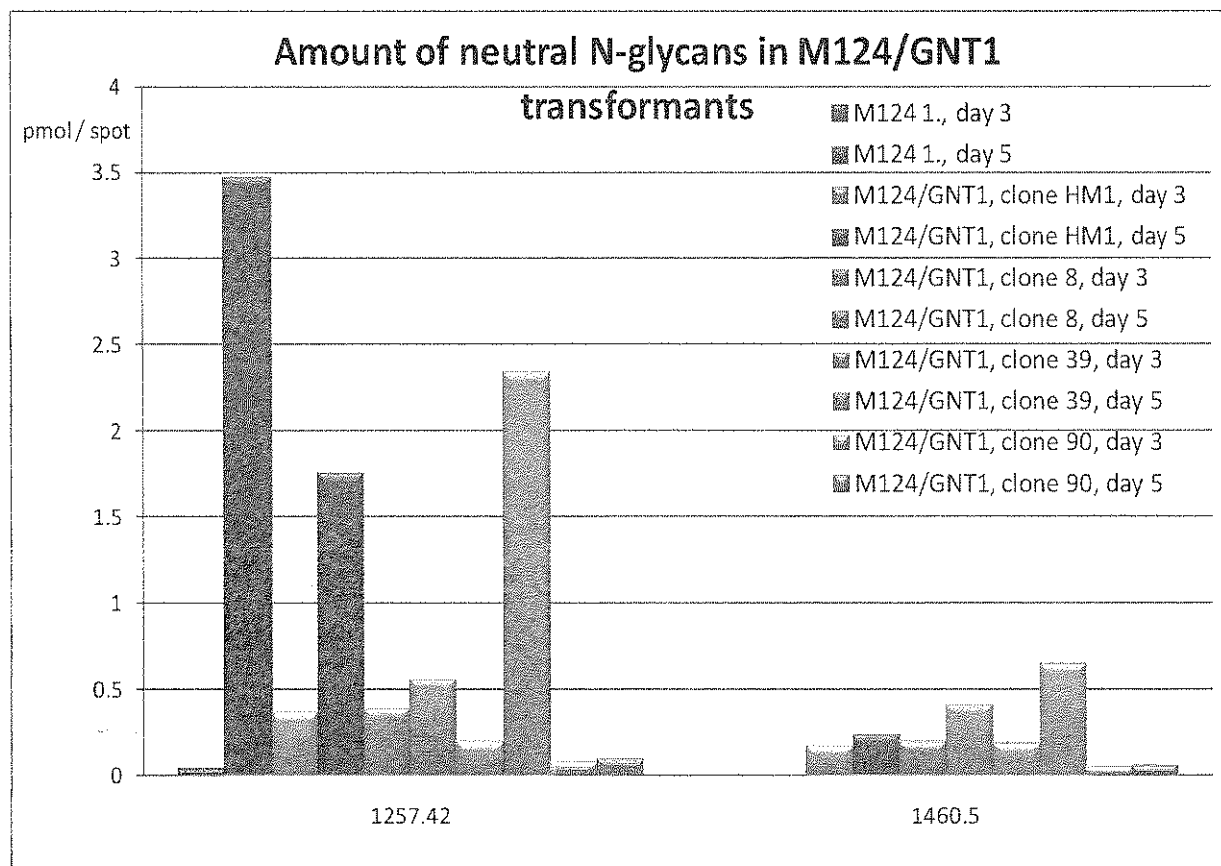


Figure 36

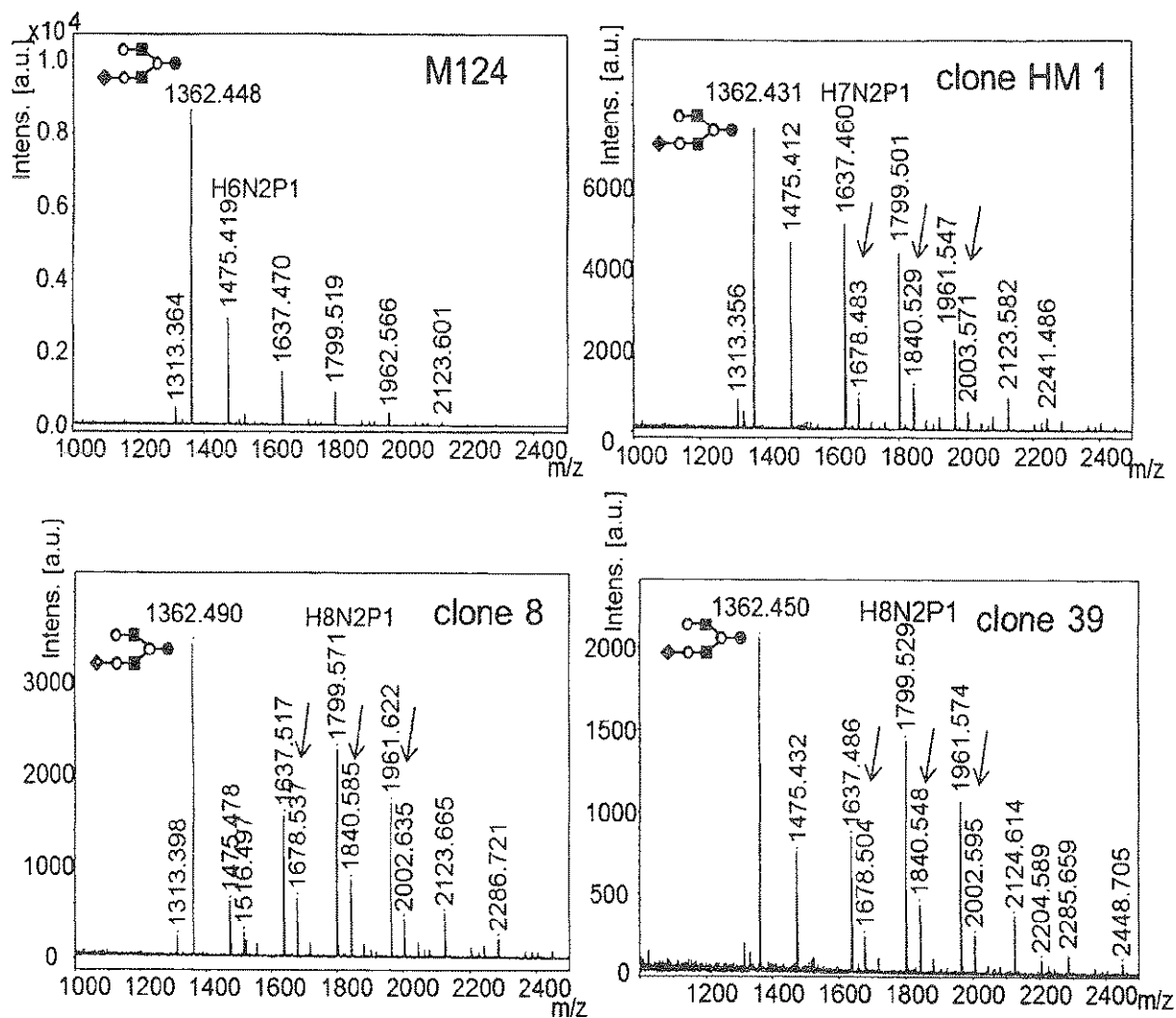


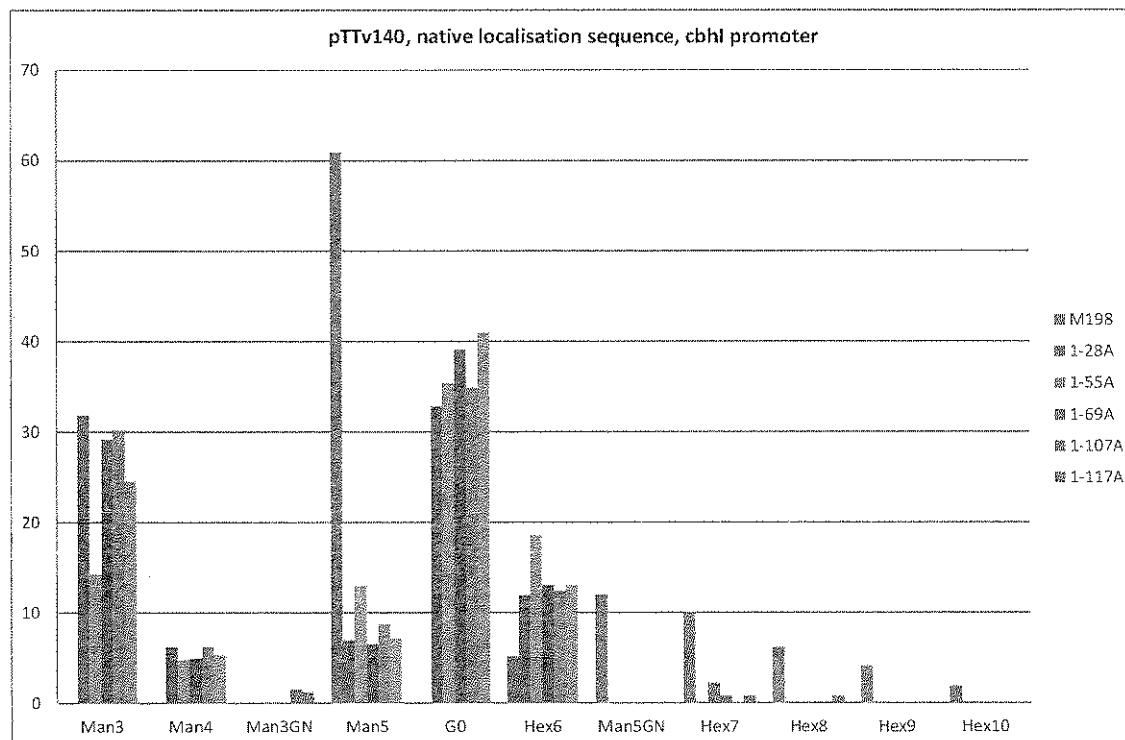
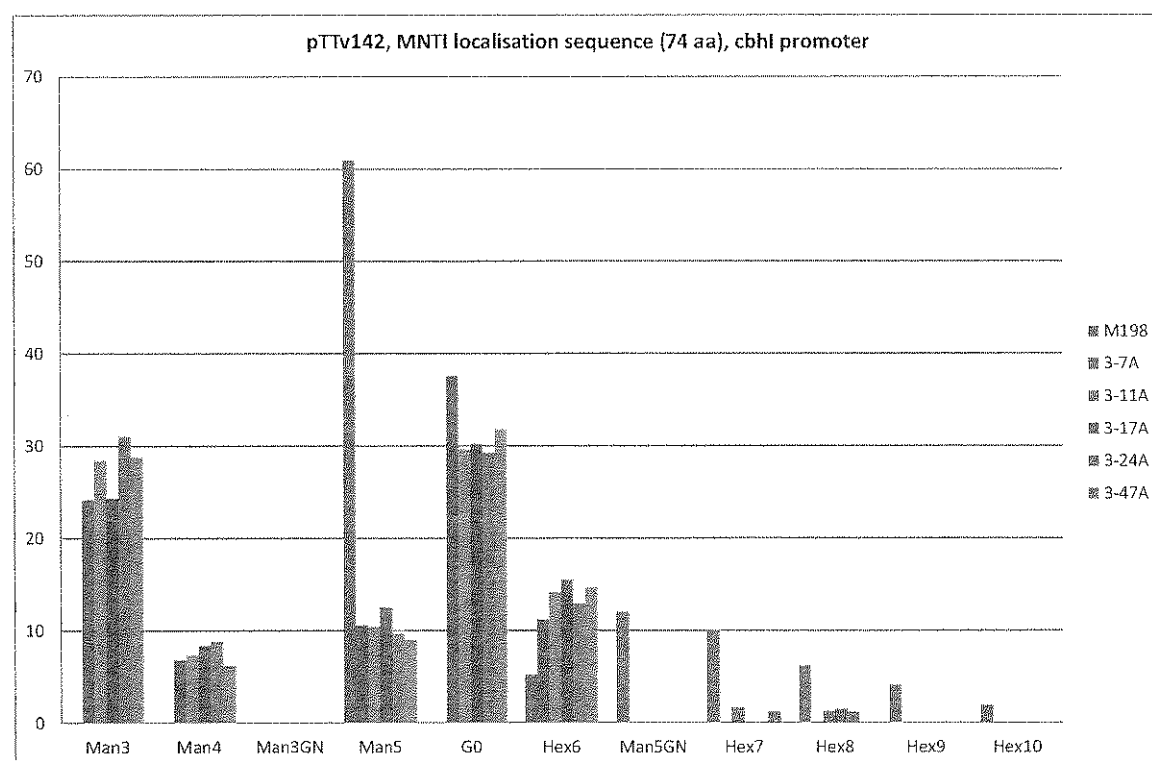
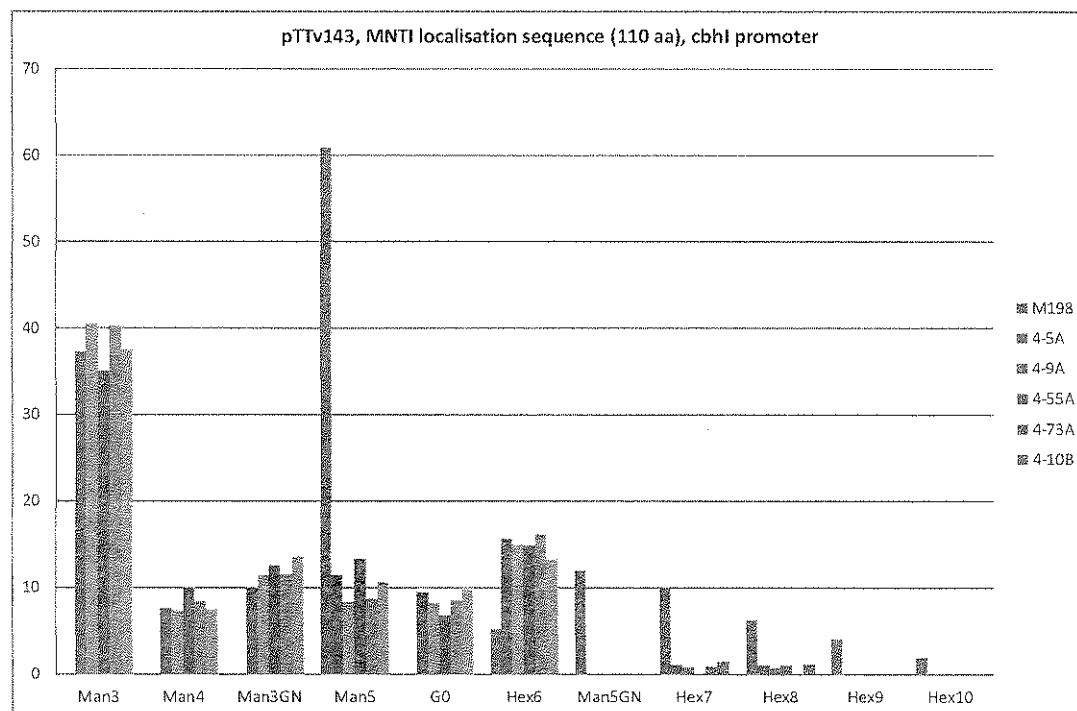
Figure 37**A.****B.**

Figure 37 (cont.)

C.



D.

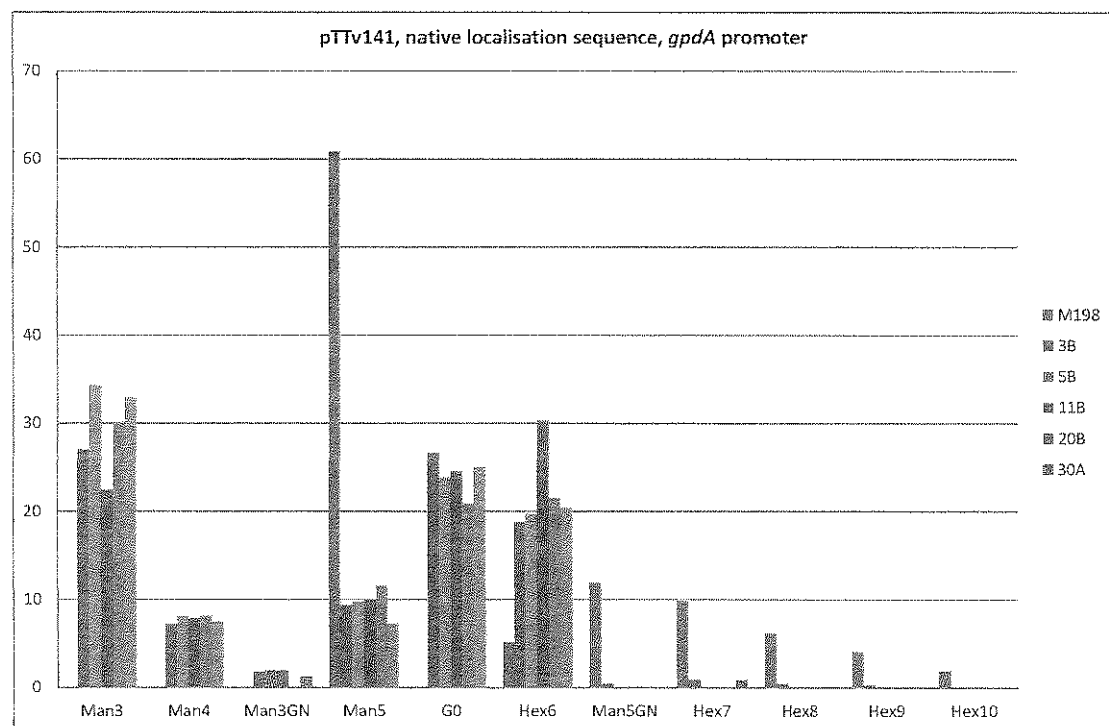


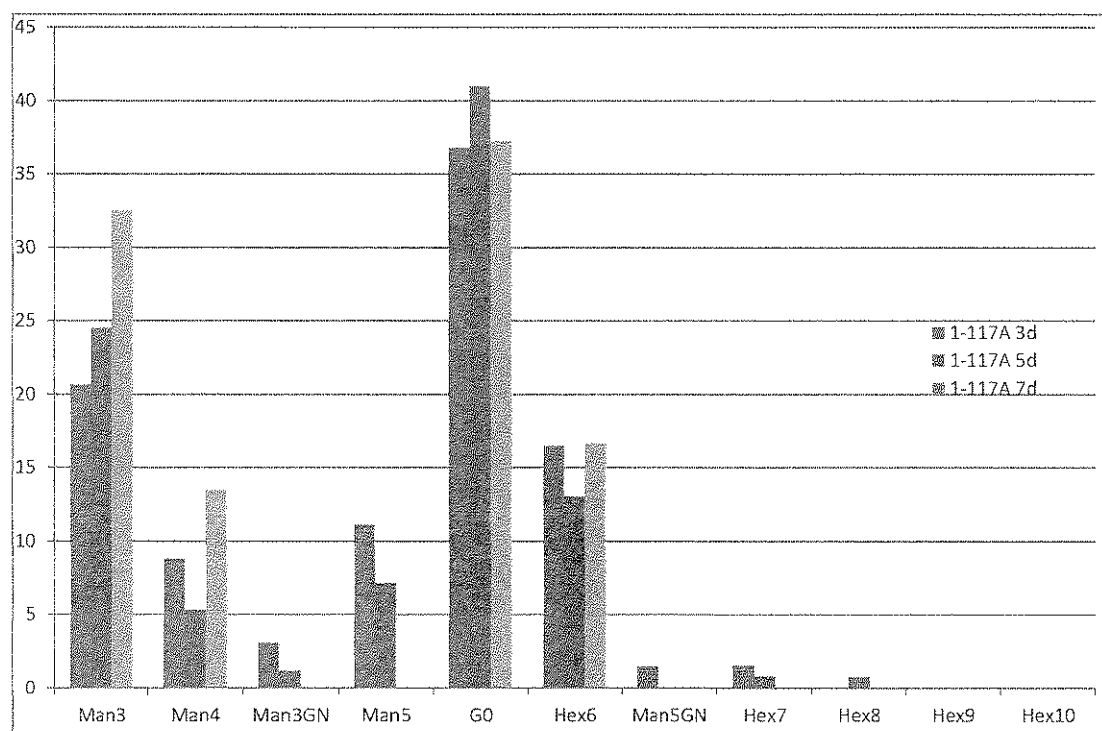
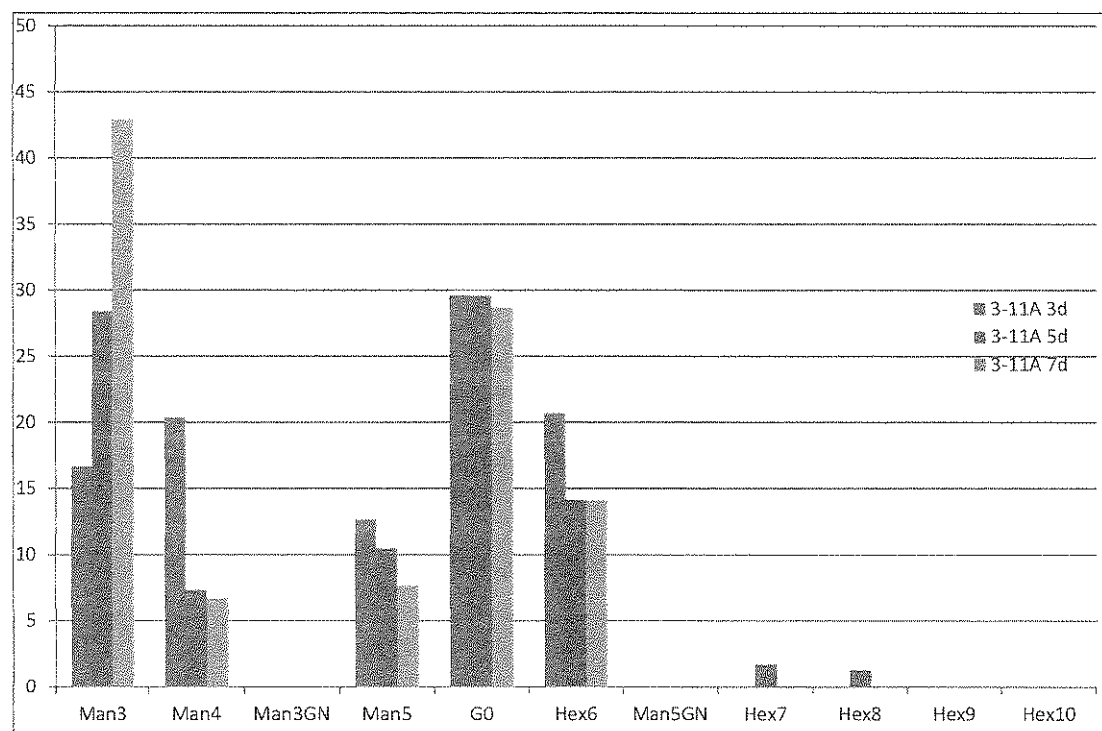
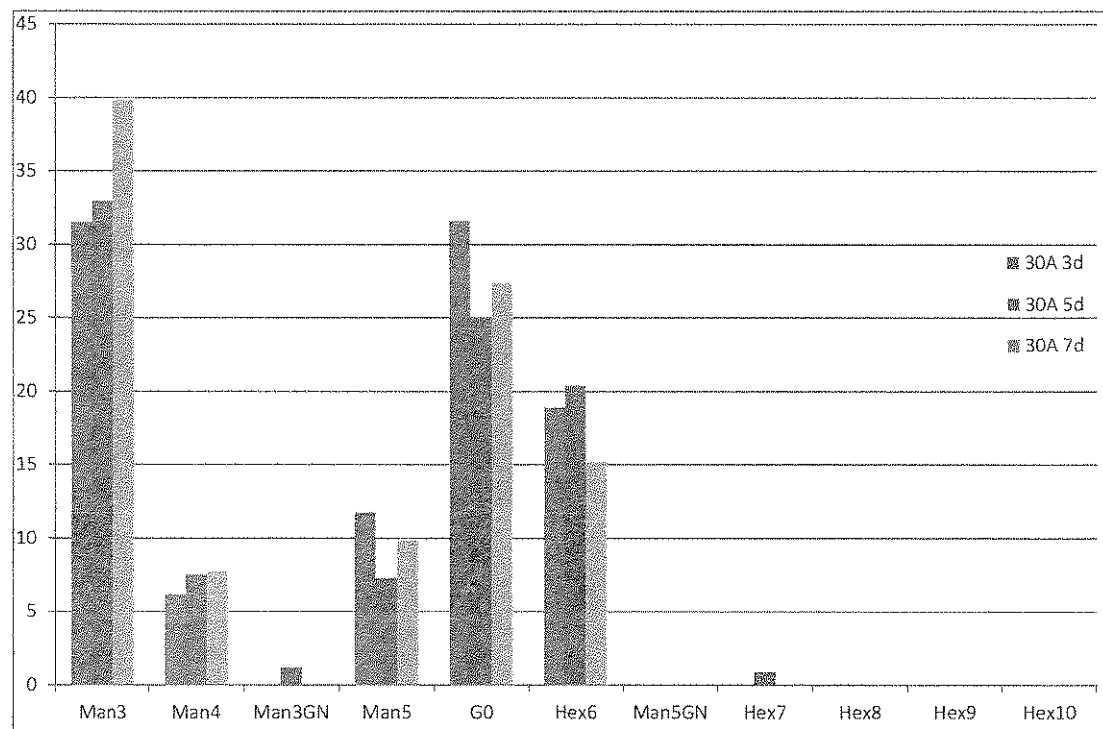
Figure 38**A.****B.**

Figure 38 (cont.)

C.



D.

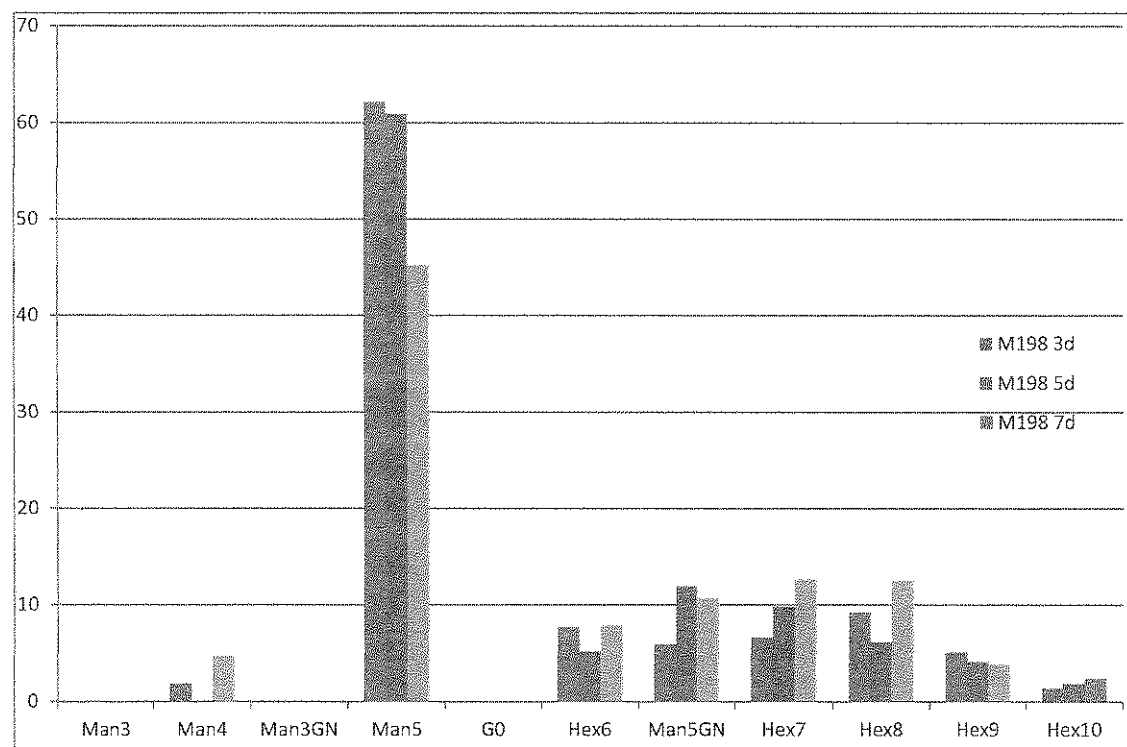


Figure 39

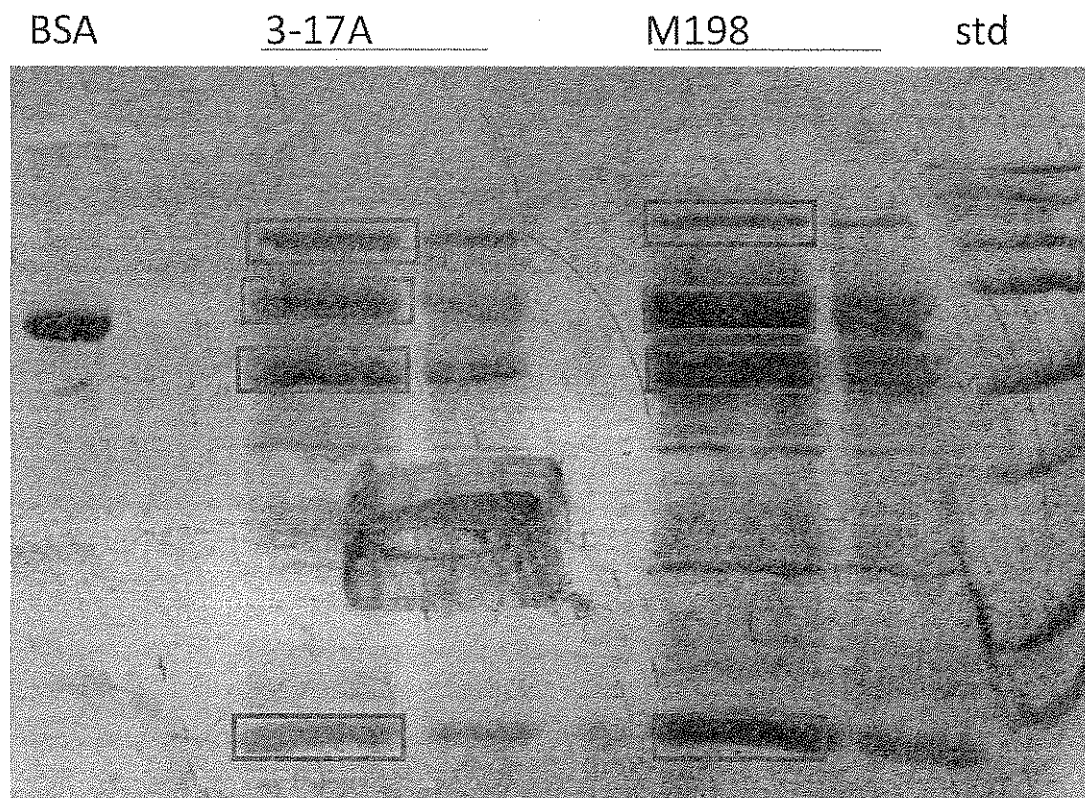


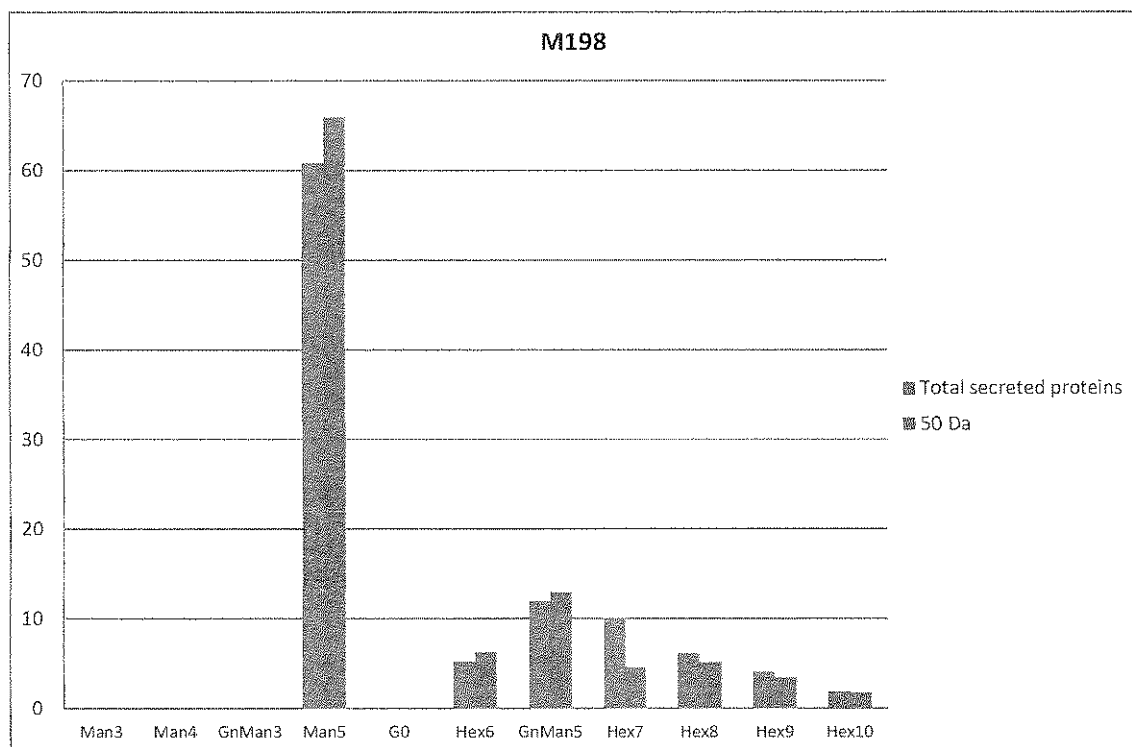
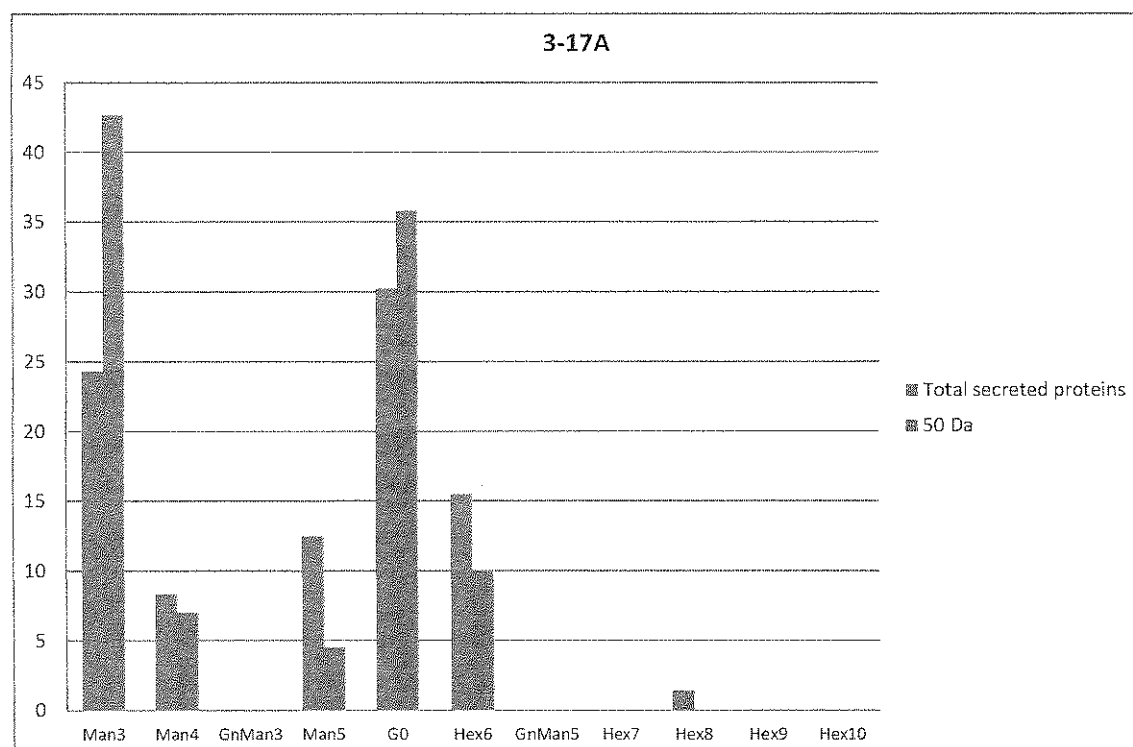
Figure 40**A.****B.**

Figure 41

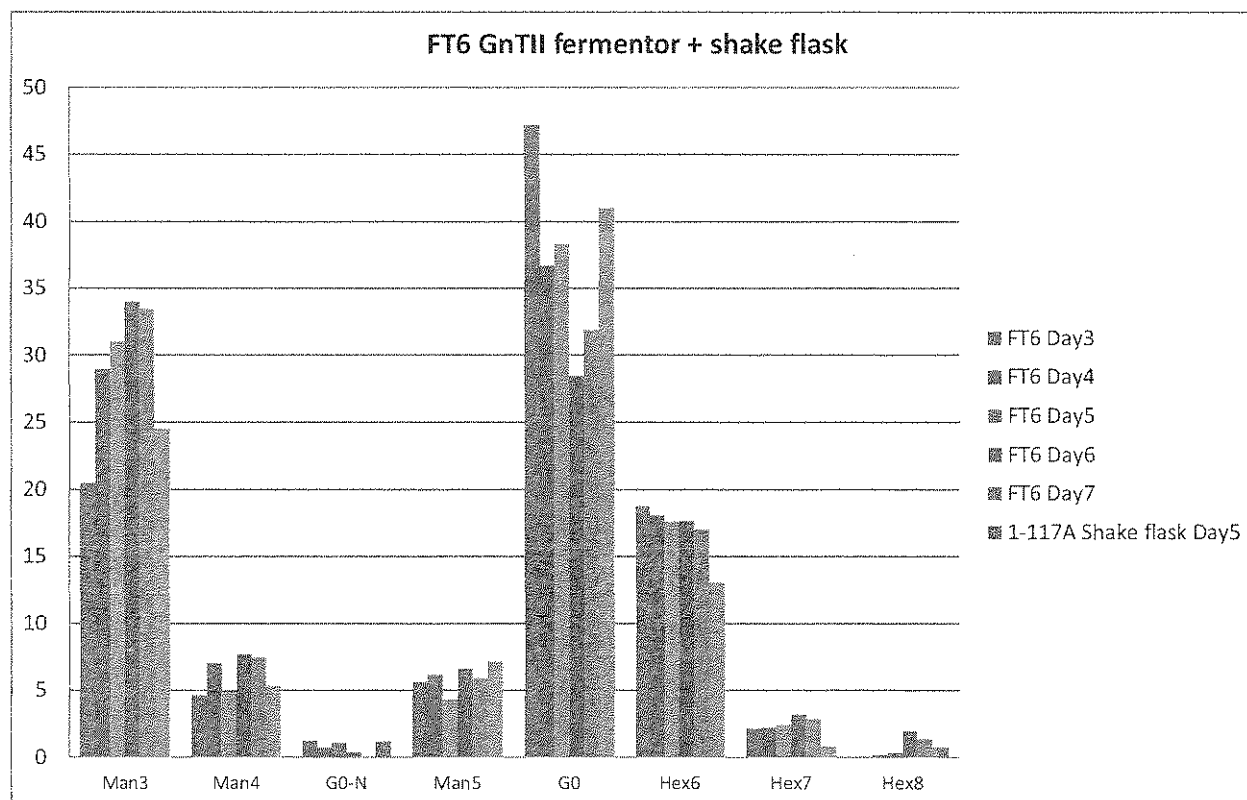


Figure 42

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Tvirens_jgi|TriviGv29_8_2|1944
Tatroviride_jgi|Triat2|270085|
Foxyssporum_gi|342880904|gb|EGU
Gzea_gi|46136275|ref|XP_389829
Mthermophila_gi|347013322|gb|A
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Tvirens_jgi|TriviGv29_8_2|1944
Tatroviride_jgi|Triat2|270085|
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Mthermophila_gi|347013322|gb|A
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Moryzae_gi|145611997|ref|XP_36
Spombe_gi|19114765|ref|NP_5938

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Treesei_jgi Trire2 104121 fgen	GLGVKMSLLLVLPA	VVVILVFLGRG-FKGALRL	WLMVQVQLLAIPFITT	227
Tvirens_jgi TriviGv29_8_2 1944	GLGVKMSLLLVLPA	VVVILVFLGRG-FKGALRL	WLMVQVQLLAIPFITT	227
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Nfischeri_gi 119478936 ref XP_	NPAGYVSRAFAELTRQ	FMPKWTVNWR	FVGEEVFLSKSFSL	275
Treesei_jgi Trire2 104121 fgen	NWRGYLGRAFAELSRQ	FKFEWTVNWR	MGLGEDFLSRGFSIT	277
Tvirens_jgi TriviGv29_8_2 1944	NWRGYLGRAFAELSRQ	FKFEWTVNWR	MGLGEDFLSRGFSIT	277
Tatroviride_jgi Triat2 270085	NWAGYLGRAFAELSRQ	FKFEWTVNWR	MGEETFLSRGFSIT	277
Foxysporum_gi 342880904 gb EGU	NPRGYAARAFELSRQ	FKFEWTVNWR	MGLGEEVFLSKYFALS	285
Gzea_gi 46136275 ref XP_389829	NSRGYAARAFELSRQ	FKFEWTVNWR	MGLGEEVFLSKSFAIFL	285
Mthermophila_gi 347013322 gb A	NPWGYLGRAFAELSRQ	FFFKWTVNWR	FVGEEVFLSKFSL	299
Ncrassa_gi 85106839 ref XP_962	YPTFYLRAFAELSRQ	FFFKWTVNWR	FVGEEIFLSKGFAL	292
Moryzae_gi 145611997 ref XP_36	NWAGYLSRAFAELSRQ	FMPKWTVNWR	FVGEEITFLSKFFA	210
Spombe_gi 19114765 ref NP_5938	FWS-YWTQAFDFGRA	FDYKWTVNWR	FIPRSIFESTSFSTS	280
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Aoryzae_gi 169779159 ref XP_00	LFVTTGWLRP	SGSNVPDFL	RLSLLQG-----RQRTV	315
Aniger_gi 317037568 ref XP_001	AFVAVTGWLRYSR	SSLPAPAFIRN	LLAG-----RHRTV	315
Nfischeri_gi 119478936 ref XP_	LFVATVWLK	PSGSDLP	SFLQRLIQ-----RYRTAS	315
Treesei_jgi Trire2 104121 fgen	AFILGRWLKIR	ERTVLGMIPYVIR	FRSPFTEQEERAI	327
Tvirens_jgi TriviGv29_8_2 1944	IFILGRWLKIR	ERSLGLMIPYVIR	FRSPFTEQEERAI	327
Tatroviride_jgi Triat2 270085	VFTAARWLKIR	QERSLLGII	TYAVRQSPFTEQE	327
Foxysporum_gi 342880904 gb EGU	IFISKRWIQ	PTGRSLYDLIPS	SFLRLKSPFTMQEQLR	334
Gzea_gi 46136275 ref XP_389829	IFVTSQRWLQ	PTGRPLSAMPS	SFLQLKSPFTLQEQLR	334
Mthermophila_gi 347013322 gb A	VFITTRWLK	PARKPVSLQ	VLPIILG-KSPFTEEQ	348
Ncrassa_gi 85106839 ref XP_962	IFITTRWLK	PARKSLVQL	ISPVLLAGKPP	342
Moryzae_gi 145611997 ref XP_36	AFVTKRWL	KPASKSIGGL	IAPLLSG-RPIFTA	259
Spombe_gi 19114765 ref NP_5938	AFTCKHWNK	LSRATPFAMVNS	MLTKP-----LPKLQ	322
	* * : : : . : :			
Aoryzae_gi 169779159 ref XP_00	MLTSLAIGLL	CARSLHYQFFAYL	SWATPCLLWRARL	365
Aniger_gi 317037568 ref XP_001	MLSSLT	TVGLLCARSLHYQFFAYL	SWATPFLWRAGF	365
Nfischeri_gi 119478936 ref XP_	MLSSLAIGLL	CARSLHYQFFAYL	ACATPFLWQAGF	365
Treesei_jgi Trire2 104121 fgen	ILSANVVGLL	FARSLHYQFYAYL	AWATPYLLWT	377
Tvirens_jgi TriviGv29_8_2 1944	ILSANVVGLL	FARSLHYQFYAYL	AWATPYLLWT	377
Tatroviride_jgi Triat2 270085	ILSANVIGLL	FARSLHYQFYAYL	AWATPYLLWT	377
Foxysporum_gi 342880904 gb EGU	MLTANLIGLL	FARSLHYQFYAYL	AWATPYLLWR	384
Gzea_gi 46136275 ref XP_389829	MLSANVIGLL	FARSLHYQFYAYL	AWATPYLLWR	384
Mthermophila_gi 347013322 gb A	ILSANVVGLL	FARSLHYQFYAYL	AWATPYLLWR	398
Ncrassa_gi 85106839 ref XP_962	ILSANAVGLL	FARSLHYQFYAYL	AWATPYLLWR	392
Moryzae_gi 145611997 ref XP_36	MLTANIVGML	FARSLHYQFYAYL	AWATPYLLWR	309
Spombe_gi 19114765 ref NP_5938	LATSNLIGIL	CARSLHYQFYAWF	YSPYLCYQASFP	372
	: : : * * * * * : : : * * * : : * * : :			

Figure 42 (cont.)

Aoryzae_gi 169779159 ref XP_00	AWNVPSTNASSSVVFS LAVQVFG-----V	391
Aniger_gi 317037568 ref XP_001	AWNTPSTNLSSIIIVVLSLATQSFG-----V	391
Nfischeri_gi 119478936 ref XP_	AWNTPSTNASSLVVILSLAAQVFG-----V	391
Treesei_jgi Trire2 104121 fgen	AWNVPSTPLSSSVVSVLAVTVA-----MA	403
Tvirens_jgi TriviGv29_8_2 1944	AWNVPSTPLSSNVVSVLAVTVA-----MA	403
Tatroviride_jgi Triat2 270085	AWNVPSTPLSSSVVISLVPVCLLSPQLLVSHDIYNFANCSAILRPRGIA	427
Foxysporum_gi 342880904 gb EGU	AWNVPSTDLSSSTIAVNTMLATVV-----LV	410
Gzea_gi 46136275 ref XP_389829	AWNVPSTDLSSRVTVGAMLATVV-----LA	410
Mthermophila_gi 347013322 gb A	AWNVPSTPISSGVVGV LALTAA-----LV	424
Ncrassa_gi 85106839 ref XP_962	AWNVPSTPASSAVVGV LGVTVA-----GV	418
Moryzae_gi 145611997 ref XP_36	AWNVPSTPVSSGVVGVMAITVG-----AV	335
Spombe_gi 19114765 ref NP_5938	AWNVPSTKLSSLIACVPLITILK-----L	398
	.: ** :.:	
Aoryzae_gi 169779159	LLNSRNALSDAPPRRKGEHIQ-----	413 (SEQ ID NO: 133)
Aniger_gi 317037568	LANSASAFYTMRSNPSGKEHNQ-----	413 (SEQ ID NO: 135)
Nfischeri_gi 1194789	LGNSFSRKHL DQS---SQKEHLQ-----	411 (SEQ ID NO: 134)
Treesei_jgi Trire2 1	F---AGSNPQPRETSKPKQH-----	420 (SEQ ID NO: 126)
Tvirens_jgi TriviGv2	F---VGSNPQ--RGAPKPKQL-----	419 (SEQ ID NO: 128)
Tatroviride_jgi Tria	FGQDISATLNP DGVAKPLGELENDGLRVWHLASVQVVSFGLHHAHNELGG	477 (SEQ ID NO: 127)
Foxysporum_gi 342880	YLG TARRAVPAPAAQVGNVDDKNK-----	434 (SEQ ID NO: 129)
Gzea_gi 46136275 ref	YRG TARLAVPP--SQARKIEAKNK-----	432 (SEQ ID NO: 130)
Mthermophila_gi 3470	WLGAREDWEP--RRVLLKGEEAAKR-----	446 (SEQ ID NO: 131)
Ncrassa_gi 85106839	WFGAREEWEPGMKSSSKKEEAAMR-----	442 (SEQ ID NO: 132)
Moryzae_gi 145611997	MVGAKAEFRP--QVPVAKKVEAKR-----	357 (SEQ ID NO: 136)
Spombe_gi 19114765 r	YTSDYRKP-----	406 (SEQ ID NO: 137)