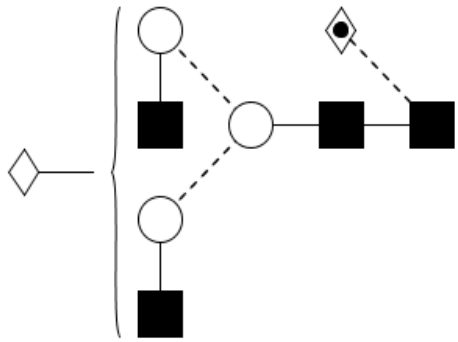
Certificate of Analysis

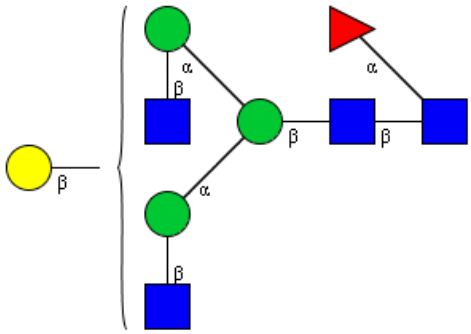
FA2G1 Glycan

Cat. #: CN-FA2G1-20U (2*10U) / CN-FA2G1-10U Batch: B275-02 Size: 20 µg (2*10 µg) / 10 µg

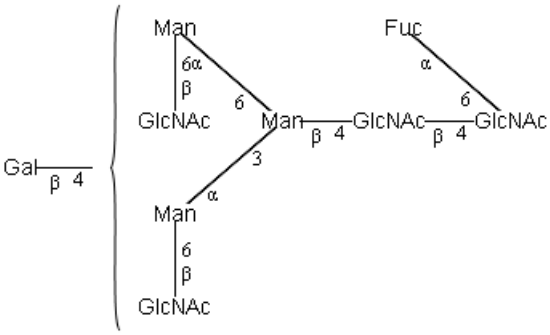
Structure



Oxford Notation

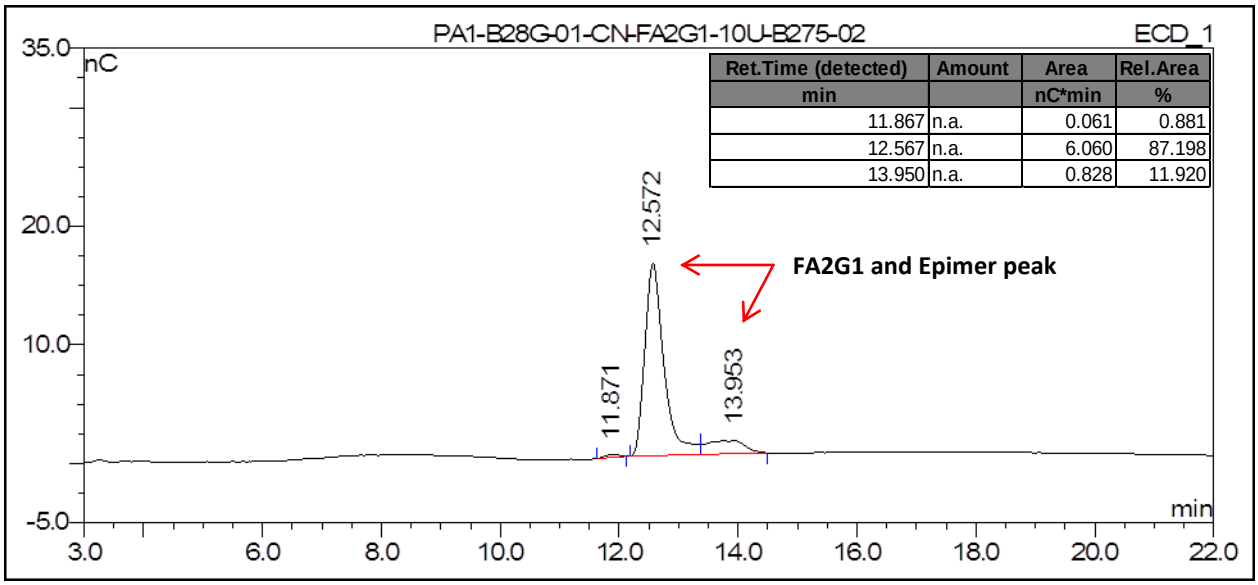


CFG Notation



Text Notation

Purity: 94.7% pure as assessed by Waters BEH Glycan chromatography of 2AB labeled glycan (see Fig 3).
Percentage of each isomer present is 32.0% FA2G(6)1, 62.7% FA2G(3)1.
HPAE-PAD, MS and NMR included as supporting data.



Ret.Time (detected)	Amount	Area	Rel.Area
min		nC*min	%
11.867	n.a.	0.061	0.881
12.567	n.a.	6.060	87.198
13.950	n.a.	0.828	11.920

Figure 1: HPAE-PAD HPLC Profile of FA2G1 (CN-FA2G1-20U, Batch B275-02) on Dionex DX-500.

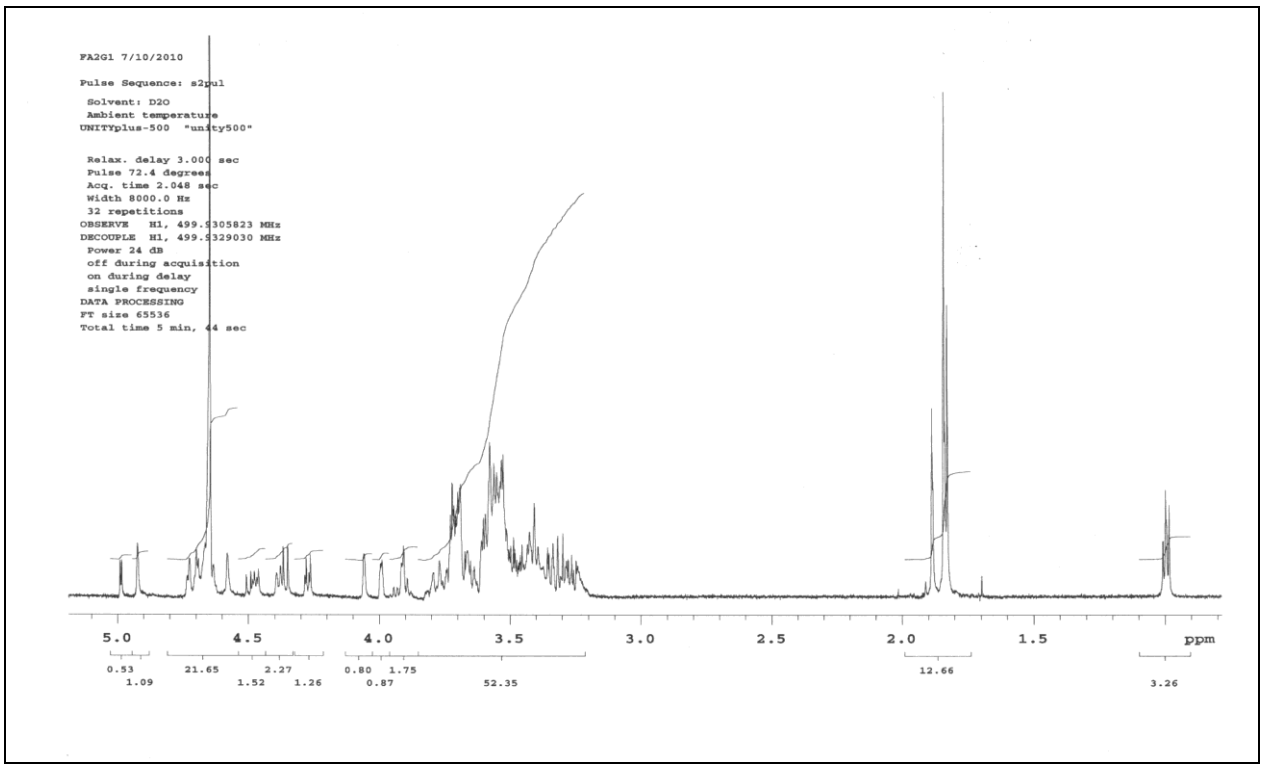
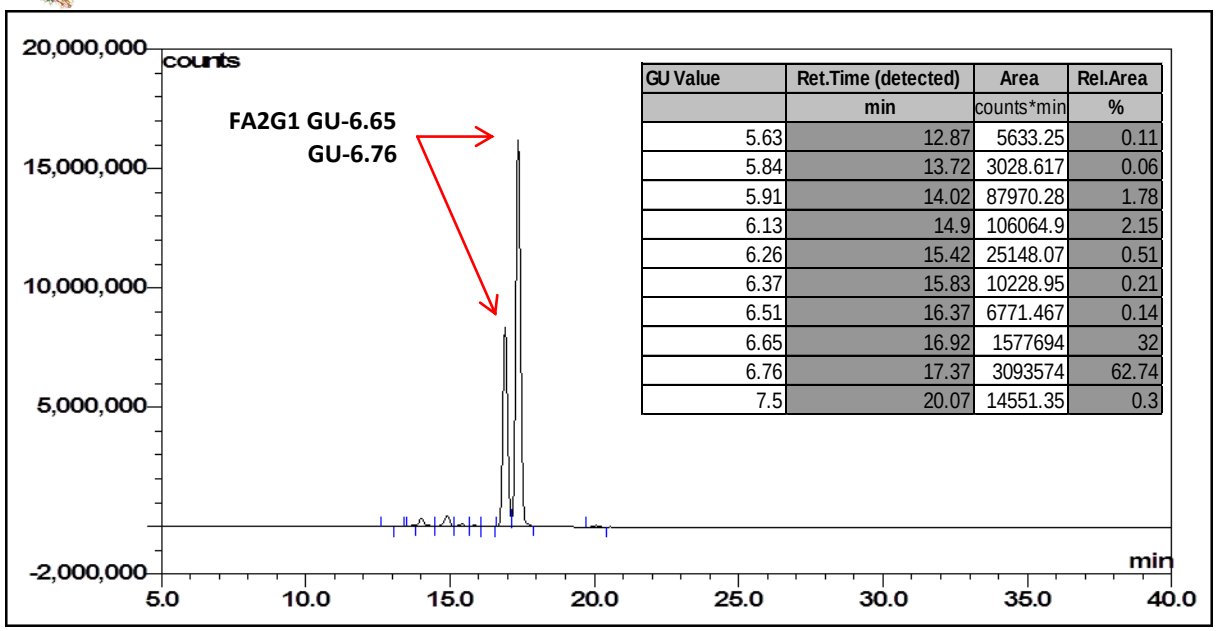


Figure 2: 500MHz ^{1}H-NMR of FA2G1 glycan BULK (CN-FA2G1-BULK, Batch B0AB-02) on a Varian Unity-500.



GU Value	Ret.Time (detected)	Area	Rel.Area
	min	counts*min	%
5.63	12.87	5633.25	0.11
5.84	13.72	3028.617	0.06
5.91	14.02	87970.28	1.78
6.13	14.9	106064.9	2.15
6.26	15.42	25148.07	0.51
6.37	15.83	10228.95	0.21
6.51	16.37	6771.467	0.14
6.65	16.92	1577694	32
6.76	17.37	3093574	62.74
7.5	20.07	14551.35	0.3

Figure 3: Waters BEH Glycan column chromatogram of 2AB labelled FA2G1 glycan (CN-FA2G1-20U, Batch B275-02) run on a Thermo U3000 UHPLC.

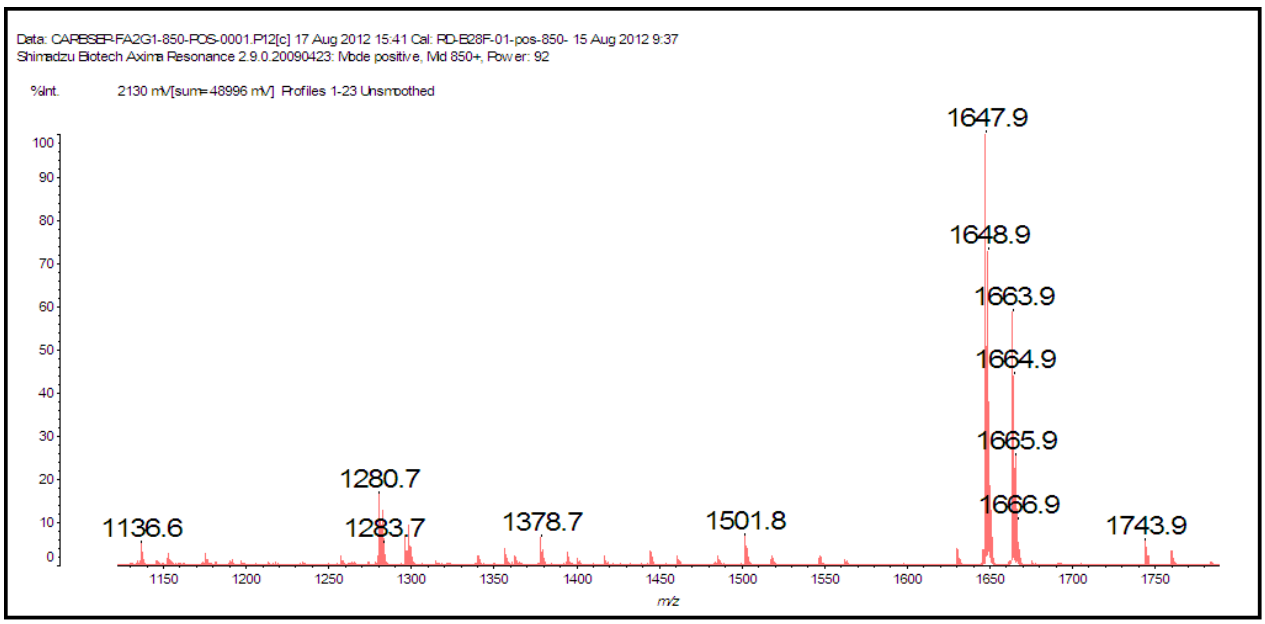


Figure 4: Positive ion mass spectrum of FA2G1 glycan (CN-FA2G1-20U, Batch B275-02) on a Shimadzu Biotech Resonance QIT-MALDI. Theoretical mass 1647.6 Da $[M+Na]^+$ Peak at 1663.9 corresponds to FA2G1 K^+ adduct

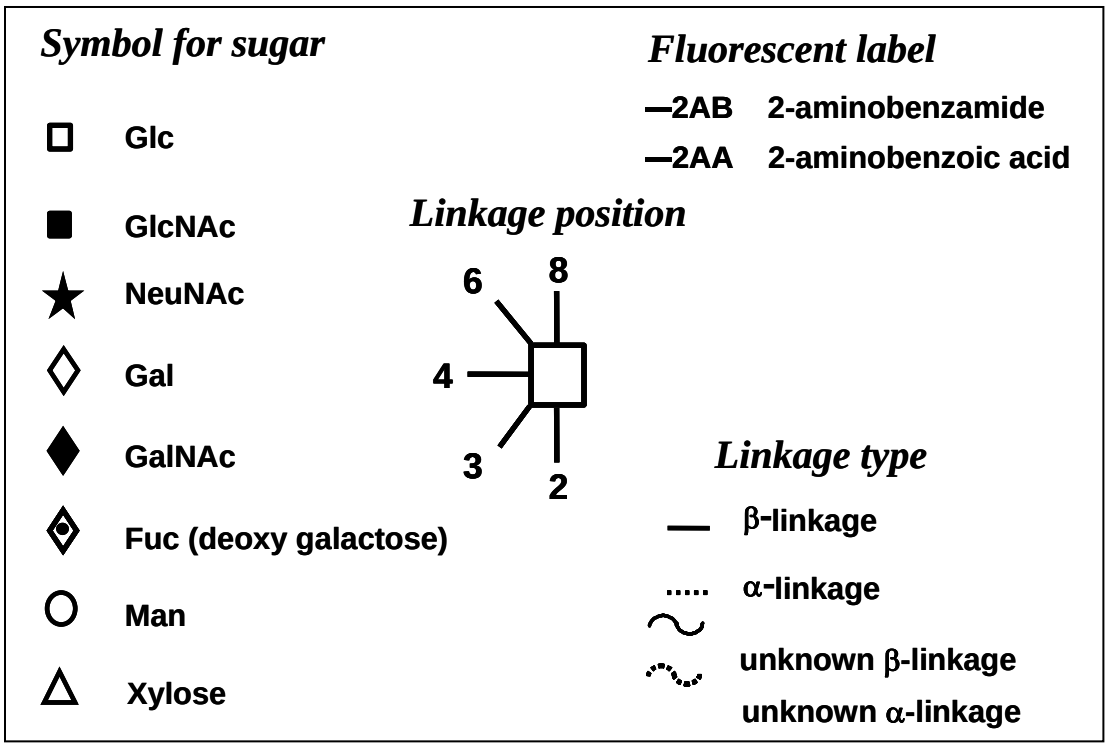


Figure 5: GlycoBase glycan structure key.