

Certificate of Analysis

2AB Labelled IgG N-Glycan Library

 Cat. #: CAB-IGG-01
 Lot #: B31U-02
 Size: ~200 pmol

Amount: Sample vial determined to contain 233 pmols total glycan (quantitation performed using glycan peaks 1-10 in figure 1) – Test performed 08 Feb 2013.



Figure 1: Waters BEH Glycan HPLC Profile of 2AB Labelled IgG N-Glycans, released by N-Mode hydrazinolysis (Cat. No. CAB-IGG-01, Lot No. B31U-02).



Peak	Full name	Short name	Structure	GU value	% relative
1	F(6)A2	FA2		5.87	19.4
2	F(6)A2B	FA2B		6.23	5.0
3	F(6)A2[6]G(4)1	FA2G1		6.62	20.6
4	F(6)A2[3]G(4)1	FA2G1	2AB	6.74	9.0
5	F(6)A2[6]BG(4)1	FA2BG1		6.90	4.8
	F(6)A2[3]BG(4)1	FA2BG1			
6	F(6)A2G(4)2	FA2G2		7.46	16.1
7	F(6)A2BG(4)2	FA2BG2		7.70	2.7
8	A2G(4)2S1	A2G2S1		8.00	2.4
9	F(6)A2G(4)2S1	FA2G2S1		8.38	11.6
10	F(6)A2BG(4)2S1	FA2BG2S1	★ ~ {	8.63	2.7
11	A2G(4)2S2	A2G2S2		9.00	1.4
12	F(6)A2G(4)2S2	FA2G2S2		9.34	2.0
13	F(6)A2BG(4)2S2	FA2BG2S2	* 2 AB	9.49	2.4

Table 1: Names, structures and GU values of each peak determined using a Waters BEH Glycan column run on a Thermo U3000 UHPLC (Cat. No. CAB-IGG-01, Lot No. B31U-02).



Nomenclature Linkage position Symbol for sugar Glc GIcNAc NeuNAc Ω Gal Linkage type GalNAc Fuc (deoxy galactose) β-linkage Ο Man α-linkage

Structure Abbreviations

All N-glycans have two core GlcNAcs; F at the start of the abbreviation indicates a core fucose, (6) after the F indicates that the fucose is α 1-6 linked to the inner GlcNAc; Mx, number (x) of mannose on core GlcNAcs; Ax, number of antenna (GlcNAc) on trimannosyl core; A2, biantennary with both GlcNAcs as β 1-2 linked; A3, triantennary with a GlcNAc linked β 1-2 to both mannose and the third GlcNAc linked β 1-4 to the α 1-3 linked mannose; A3', triantennary with a GlcNAc linked β 1-2 to both mannose and the third GlcNAc linked β 1-6 to the α 1-6 linked mannose; A4, GlcNAcs linked as A3 with additional GlcNAc β 1-6 linked to α 1-6 mannose; B, bisecting GlcNAc linked β 1-4 to β 1-3 mannose; Gx, number (x) of linked galactose on antenna, (4) or (3) after the G indicates that the Gal is β 1-4 or β 1-3 linked; [3]G1 and [6]G1 indicates that the galactose is on the antenna of the α 1-3 or α 1-6 mannose; Sx, number (x) of sialic acids linked to galactose; the numbers 3 or 6 in parentheses after S indicate whether the sialic acid is in an α 2-3 or α 2-6 linkage.