

Ludger

Certificate of Analysis

2AB Labelled IgG N-Glycan Library

Cat. #: CAB-IGG-01

Batch #: B74I-01

Size: ~200 pmol

Expiry Date: 26 Apr 2022

Amount: Sample vial determined to contain 247.5 pmols total glycan (quantitation performed using glycan peaks 1-10 in figure 1) – Test performed 26 Apr 2017.

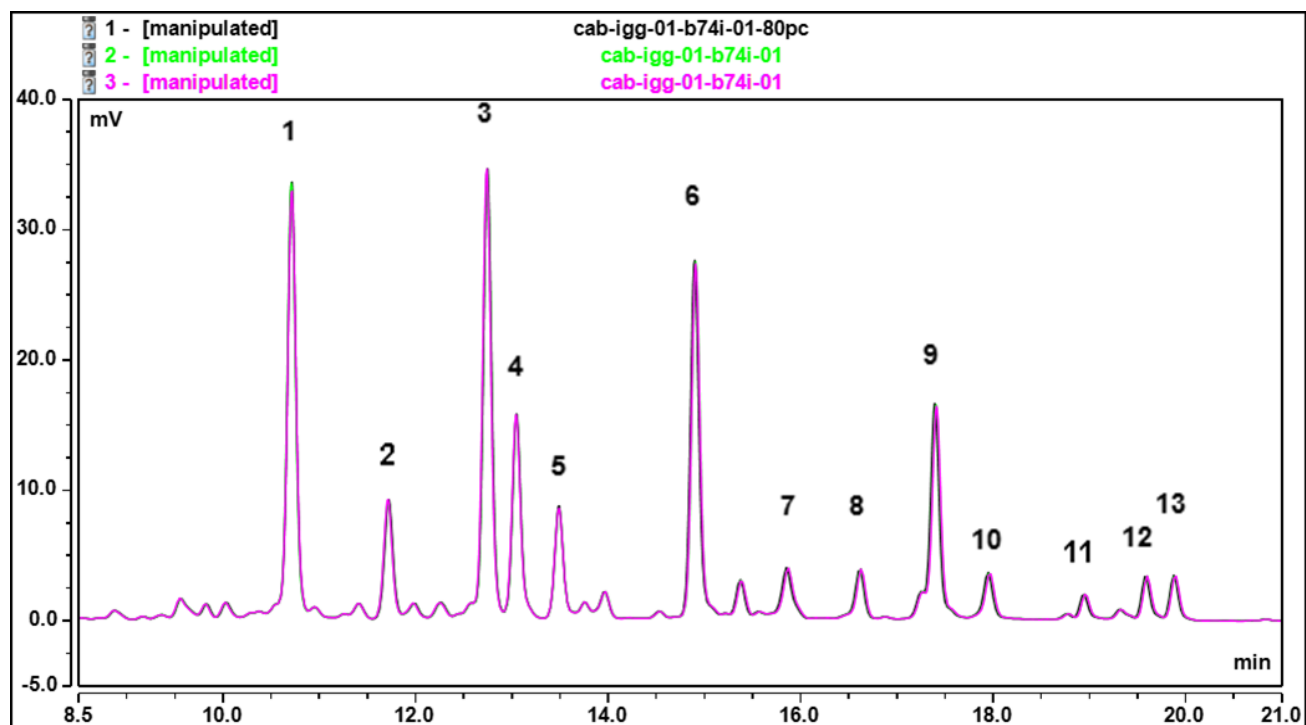


Figure 1: Waters BEH Glycan HPLC Profile of 2AB Labelled IgG N-Glycans, released by N-Mode hydrazinolysis (Cat. No. CAB-IGG-01, Batch B74I-01).

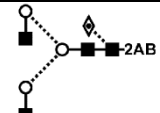
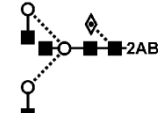
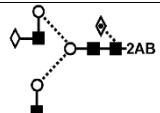
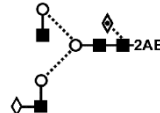
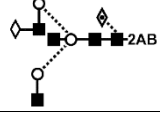
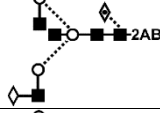
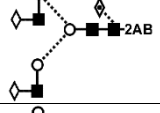
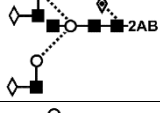
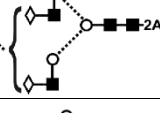
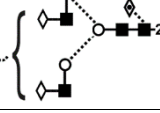
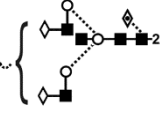
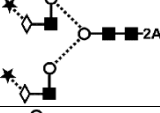
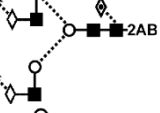
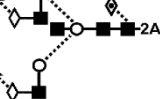
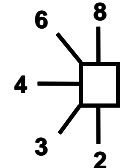
Peak ID	Full name	Short name	Structure	GU value	% relative peak area
1	F(6)A2	FA2		5.86	19.8
2	F(6)A2B	FA2B		6.23	5.4
3	F(6)A2[6]G(4)1	FA2G1		6.61	20.3
4	F(6)A2[3]G(4)1	FA2G1		6.72	9.5
5	F(6)A2[6]BG(4)1	FA2BG1		6.88	5.1
	F(6)A2[3]BG(4)1	FA2BG1			
6	F(6)A2G(4)2	FA2G2		7.45	16.5
7	F(6)A2BG(4)2	FA2BG2		7.84	2.9
8	A2G(4)2S1	A2G2S1		8.17	2.5
9	F(6)A2G(4)2S1	FA2G2S1		8.54	10.2
10	F(6)A2BG(4)2S1	FA2BG2S1		8.8	2.3
11	A2G(4)2S2	A2G2S2		9.28	1.2
12	F(6)A2G(4)2S2	FA2G2S2		9.62	2
13	F(6)A2BG(4)2S2	FA2BG2S2		9.77	2

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, Batch B74I-01).

Nomenclature

<i>Symbol for sugar</i>	<i>Linkage position</i>
□ Glc	
■ GlcNAc	
★ NeuNAc	
◇ Gal	
◆ GalNAc	
◊ Fuc (deoxy galactose)	
○ Man	
	<i>Linkage type</i>
	— β-linkage
 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.