



CERTIFICATE OF ANALYSIS

PRODUCT NAME:	AdvanceBio 2-AB Human IgG N-glycan library
PRODUCT CODE:	GKSB-005
LOT NUMBER:	DP20F0801
PACK SIZE:	200 pmol (qualitative chromatographic standard for N-glycan identification)
FORM:	Dry solid
STORAGE:	Store at -20°C in the dark before and after reconstitution
EXPIRATION:	June 2025, may be used for 1 year after reconstitution
STRUCTURE:	The Human IgG N-Linked Glycan Library consists of complex biantennary oligosaccharides consistent with N-glycans on normal human IgGs ^{1,2,3} (see Table 1). The reducing termini are derivatized with the fluorescent dye, 2-AB (2-aminobenzamide).

LABORATORY REAGENT

3832 Bay Center Place
Hayward, CA 94545-3619
advancebio.glycan@agilent.com
www.agilent.com

Quality Control:

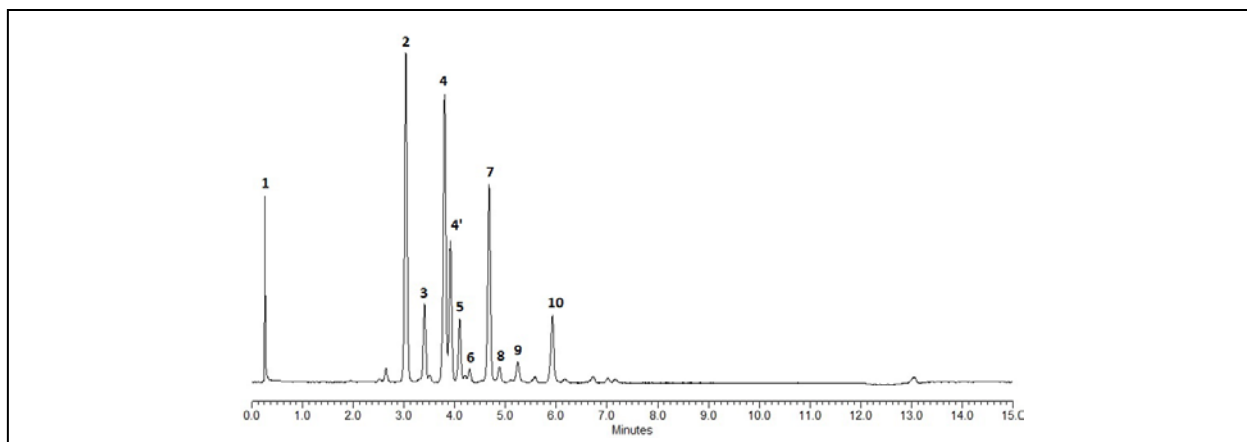


Figure 1 - UPLC Results: 6–9 pmol (1 μ L, aqueous) of the 2-AB-labeled library was injected on a Waters ACQUITY UPLC H Class System utilizing a 15-minute method under the conditions below:

Time (min)	Flow (mL/min)	% ACN	% Buffer
00.0	1.0	75.0	25.0
12.0	1.0	52.5	47.5
12.1	0.5	40.0	60.0
12.5	0.5	40.0	60.0
12.6	0.5	75.0	25.0
12.7	1.0	75.0	25.0
15.0	1.0	75.0	25.0

Column: Waters ACQUITY UPLC BEH Glycan Column (1.7 μ m, 2.1 x 100 mm)
 ACN: Acetonitrile
 Buffer: 100 mM ammonium formate, pH 4.4
 Flow rate: As stated in table, in mL/min
 Temperature: 60 $^{\circ}$ C
 Max Pressure: 15,000 psi
 Fluorescence Detection: λ_{ex} = 330 nm, λ_{em} = 420 nm

Table 1 - Peak Identification of 2-AB Labeled Human IgG N-Linked Glycan Library.

Peak Number	Glycan Identification	ProZyme	Common	Oxford (New)	Structure ^{4,5}
1	Free Dye (2-AB)				
2	Asialo-, agalacto- biantennary with core fucose	NGA2F	G0F	F(6)A2	
3	Asialo-, agalacto- biantennary with core fucose and with bisecting N-Acetylglucosamine	NGA2FB	G0FB	F(6)A2B	
4	Asialo-, monogalactosylated biantennary with core fucose	NA2G1F	G1F[6]	F(6)A2[6]G(4)1	

Allow the unopened vial to reach ambient temperature and tap on a solid surface to ensure that most of the material is at the bottom of the vial. Gently remove the cap, add the desired volume of ultra-pure water or aqueous buffer, re-cap and mix thoroughly to redissolve all the material.

For maximal recovery, ensure that the cap lining is also rinsed. Centrifuge the reconstituted vial briefly before use.

Make sure that any glassware, plasticware, solvents or reagents used are free of glycosidases and carbohydrate contaminants.

Minimize exposure to elevated temperatures or extremes of pH. Store the reconstituted glycan at -20°C . Allow the vial to equilibrate to ambient temperature before use.

Directions For Use: The amount of 2-AB-labeled library standard injected on a UPLC column is typically 6–9 pmol of total glycan. For our Quality Control testing, one vial was dissolved in 30 μL of water and 1 μL injected on the ACQUITY column. For larger injection volumes or other LC systems we recommend further dilution as necessary for compatibility with your mobile phase.

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