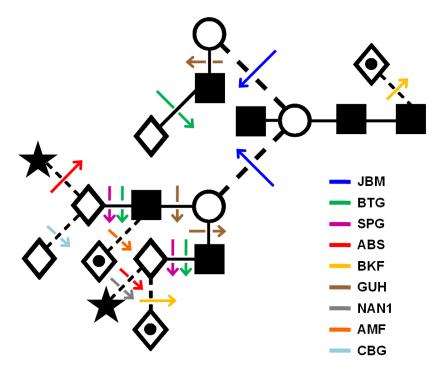
Enzymatic Specificities



Enzyme	Full Name and Activity		
JBM	Jack Bean Mannosidase		
	Releases α (1-2) and α (1-6) more efficiently than α (1-3) linked mannose residues		
BTG	Bovine testes β -Galactosidase		
	Hydrolyses non-reducing terminal β (1-3) and β (1-4) linked galactose		
SPG	Streptococcus pneumonia β-Galactosidase		
	Hydrolyses non-reducing terminal β (1-4) linked galactose residues		
ABS	Athrobacter ureafaciens Sialidase		
	Releases α (2-6) and α (2-8) lined non-reducing terminal sialic acids (NeuNAc and NeuNGc)		
BKF	Bovine Kidney α -Fucosidase		
	Releases α (1-2) and α (1-6) linked non-reducing terminal fucose residues more efficiently than		
	α (1-3) and α (1-4) linked fucose. Used for release of core fucose residues.		
GUH	Streptococcus pneumonia Hexosaminidase		
	Recombinantly expressed in <i>E. coli</i> . Releases β -linked GlcNAc but not bisecting GlcNAc β (1-4) Man		
NAN1	Recombinant Sialidase		
	Releases α (2-3) linked non-reducing terminal sialic acids (NeuNac and NeuNGc)		
AMF	Almond Meal α-Fucosidase		
	Releases α (1-3) and α (1-4) linked non-reducing terminal fucose residues		
	Does not release core α (1-3) and α (1-6) linked fucose		
CBG	Coffee Bean α -Galactosidase		
	Hydrolyses α (1-3) and α (1-4) linked terminal galactose residues		

All N-glycans have two core GlcNAcs; F at the start of the abbreviation indicates a core $\alpha(1-6)$ fucose 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 $\beta(1-2)$ linked; A3, triantennary with a GlcNAc linked $\beta(1-2)$ to both mannose and a third GlcNAc linked $\beta(1-4)$ to the $\alpha(1-3)$ linked mannose; A3', triantennary with a GlcNAc linked $\beta(1-2)$ to both mannose and the third GlcNAc linked $\beta(1-6)$ to the $\alpha(1-6)$ linked mannose; A4, GlcNAcs linked as A3 with additional GlcNAc $\beta(1-6)$ linked to $\alpha(1-6)$ mannose; B, bisecting GlcNAc linked $\beta(1-4)$ to $\beta(1-3)$ mannose; Gx, number (x) of $\beta(1-4)$ linked galactose on the antenna; Fx, number (x) of linked fucose on antenna, (4) or (3) after the F indicates that the Fuc is $\alpha(1-4)$ or $\alpha(1-3)$ linked to the GlcNAc; Sx, number (x) of sialic acids linked to galactose; the number 3 or 6 in parentheses after S indicates whether the sialic acid is in an $\alpha(2-3)$ or $\alpha(2-6)$ linkage.

Monosaccharide Symbol			Linkage Position
•	N-acetylglucosamine	GlcNAc	4 - 8
□	Glucose Galactose	Glc Gal	3 7
♦	N-acetylgalactosamine	GalNAc	
♦	Fucose	Fuc	Linkage Type
0	Mannose	Man	α linkage
*	N-acetylneuraminicacid	NeuNAc	— β linkage
Δ	Xylose	XyI	unknown α linkage unknown β linkage