

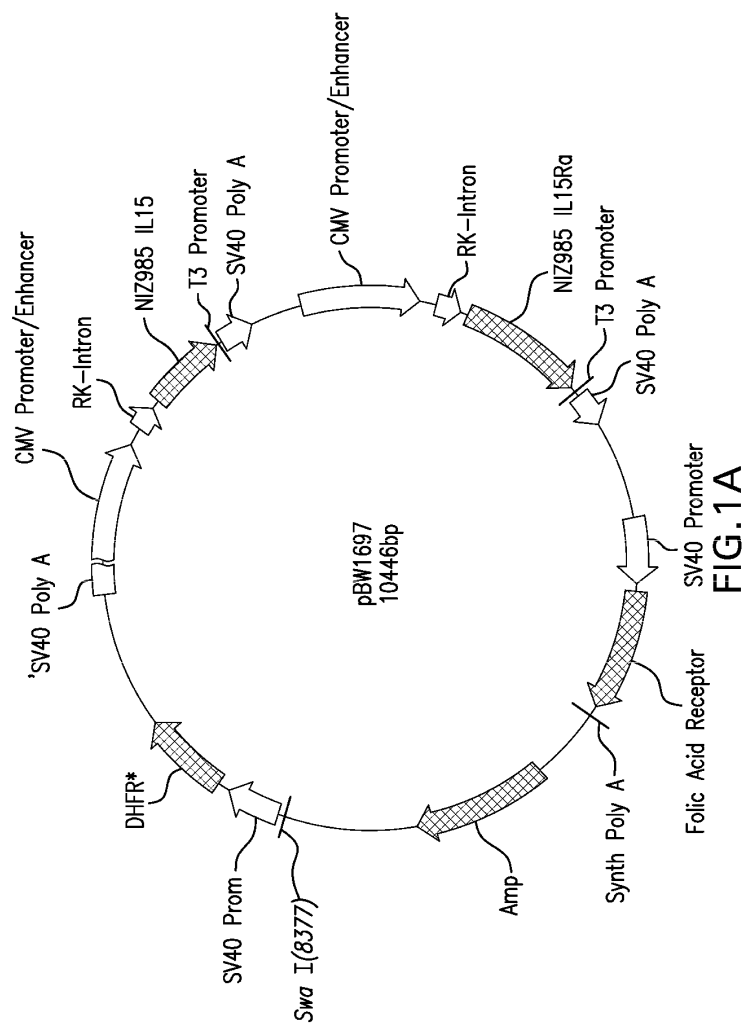


FIG.1A

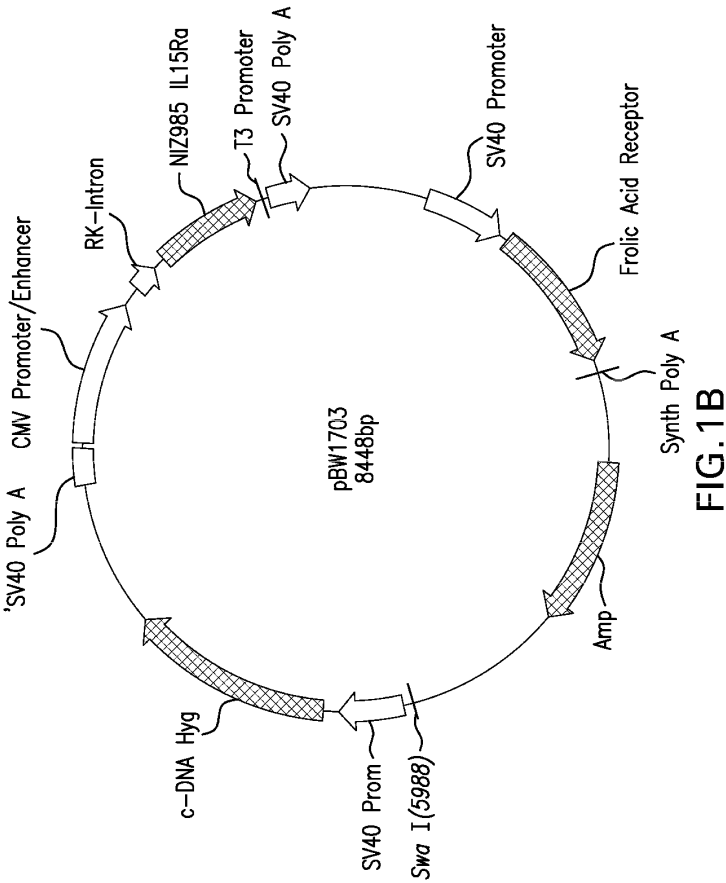


FIG.1B

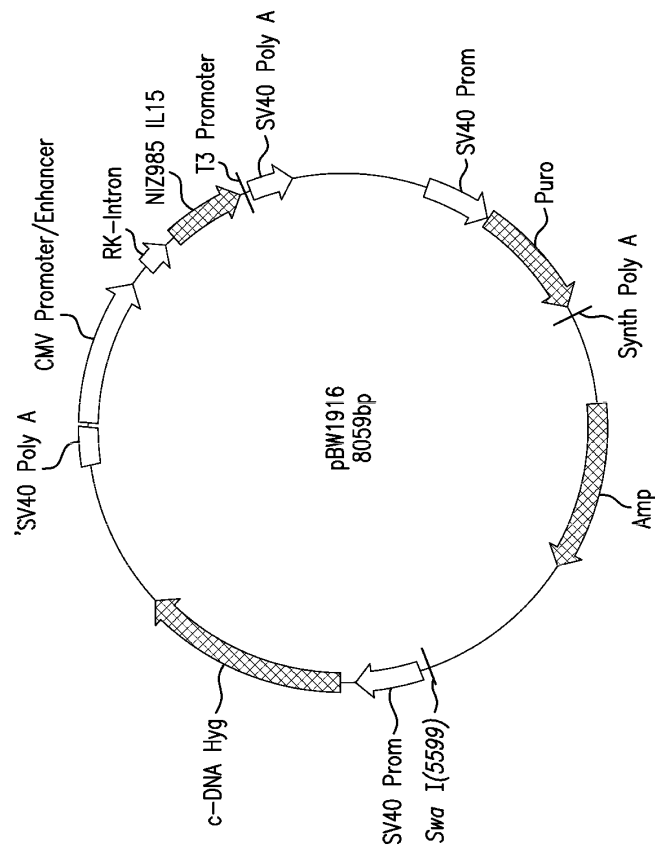
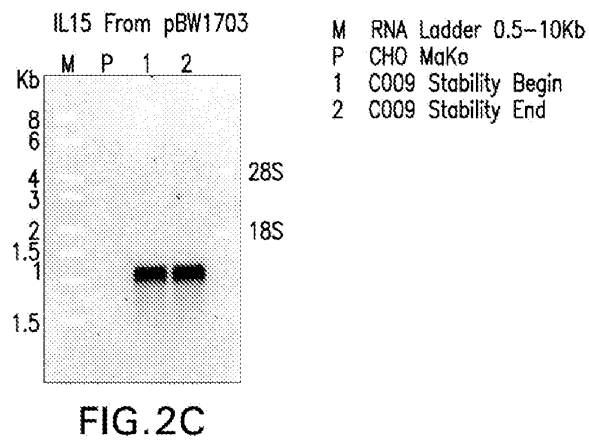
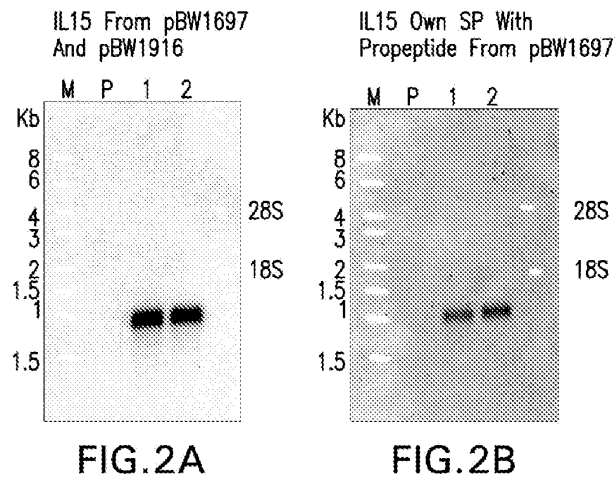


FIG.1C



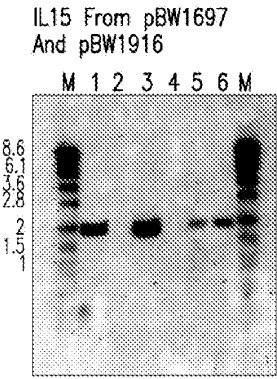


FIG.3A

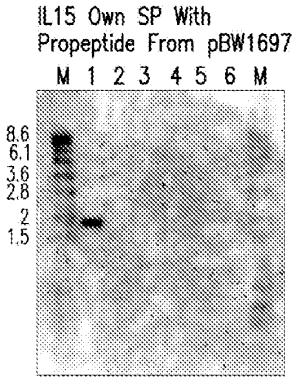


FIG.3B

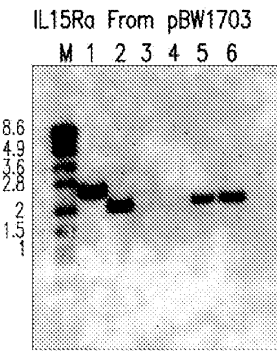


FIG.3C

- M DIG-Labeled Molecular DNA Marker VII (Roche)
- 1 CHO MaKo + 5 Copy Spike pBW1697
 - 2 CHO MaKo + 5 Copy Spike pBW1703
 - 3 CHO MaKo + 5 Copy Spike pBW1916
 - 4 CHO MaKo
 - 5 C009 Stability Begin
 - 6 C009 Stability End



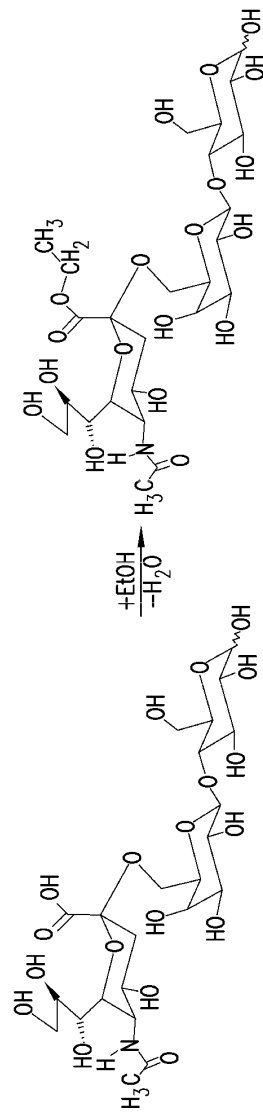


FIG. 5A

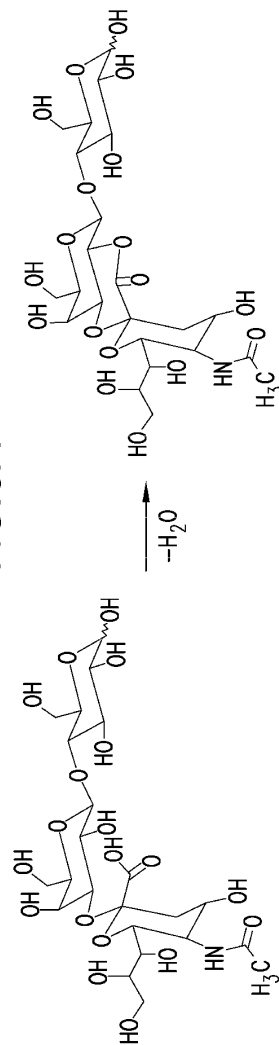


FIG. 5B

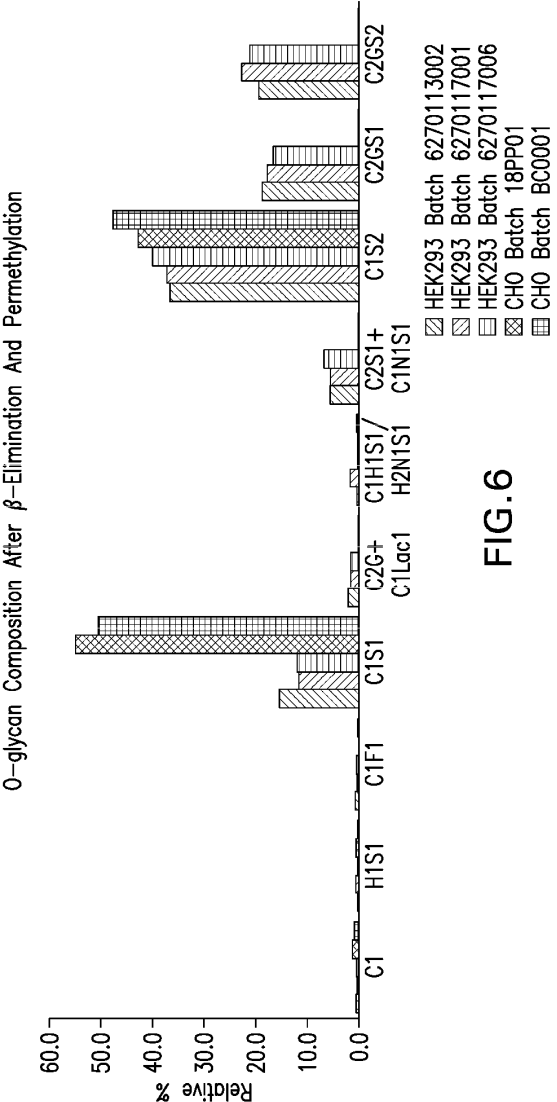


FIG.6



FIG.7

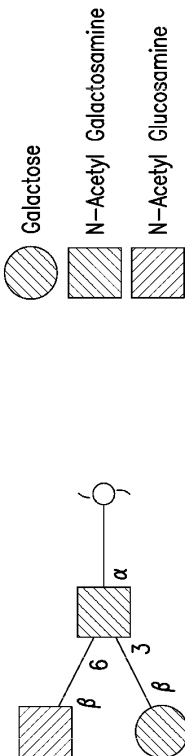


FIG.8

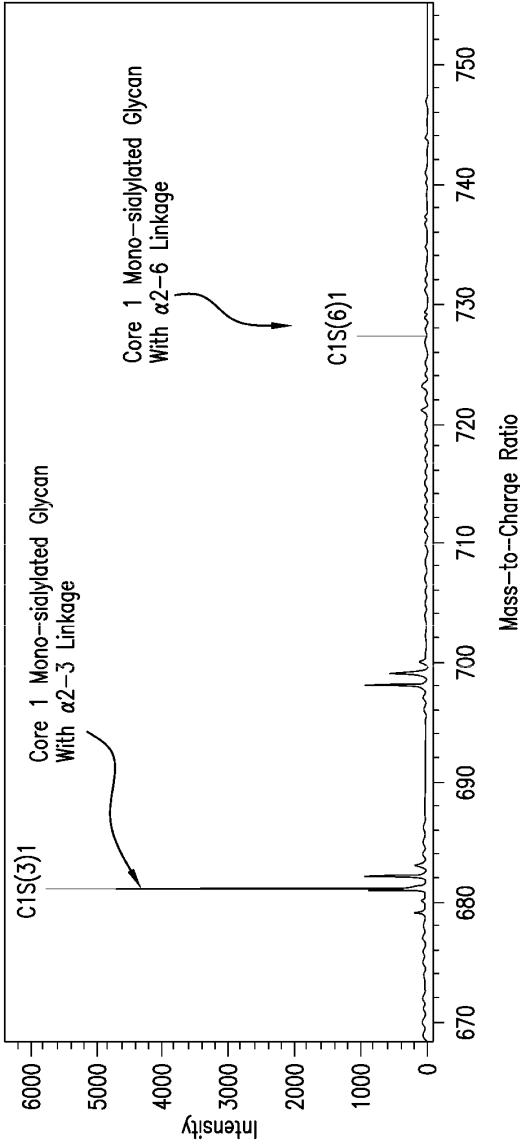


FIG.9

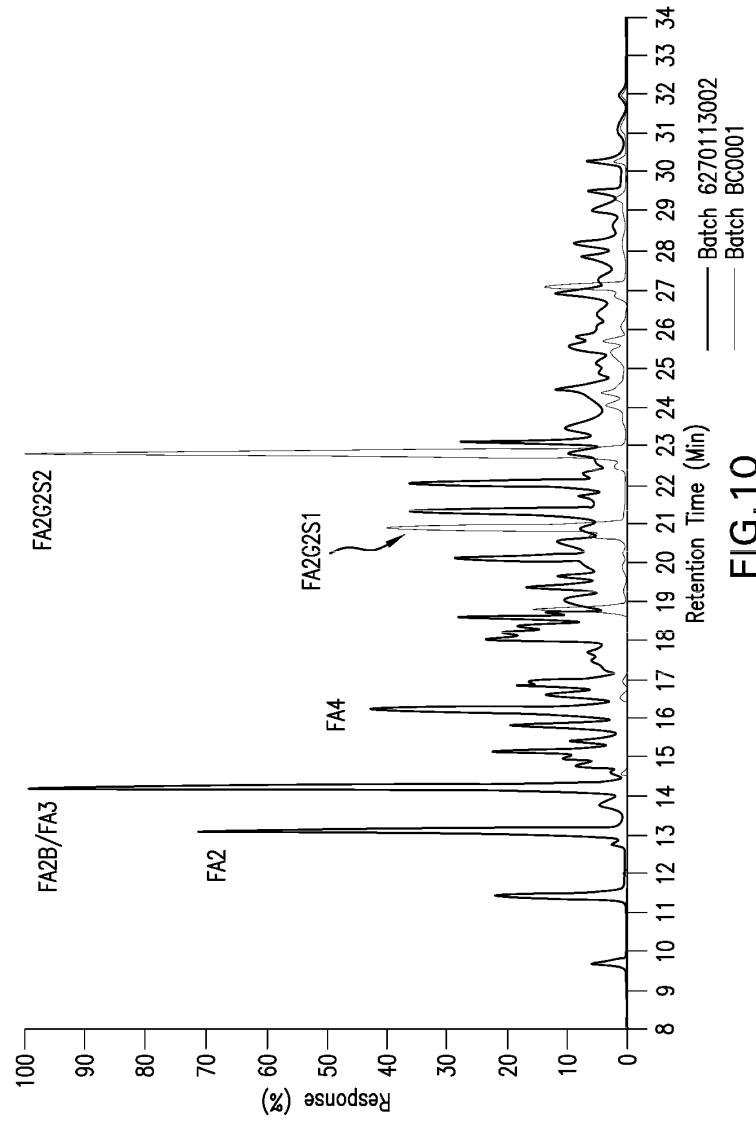


FIG.10

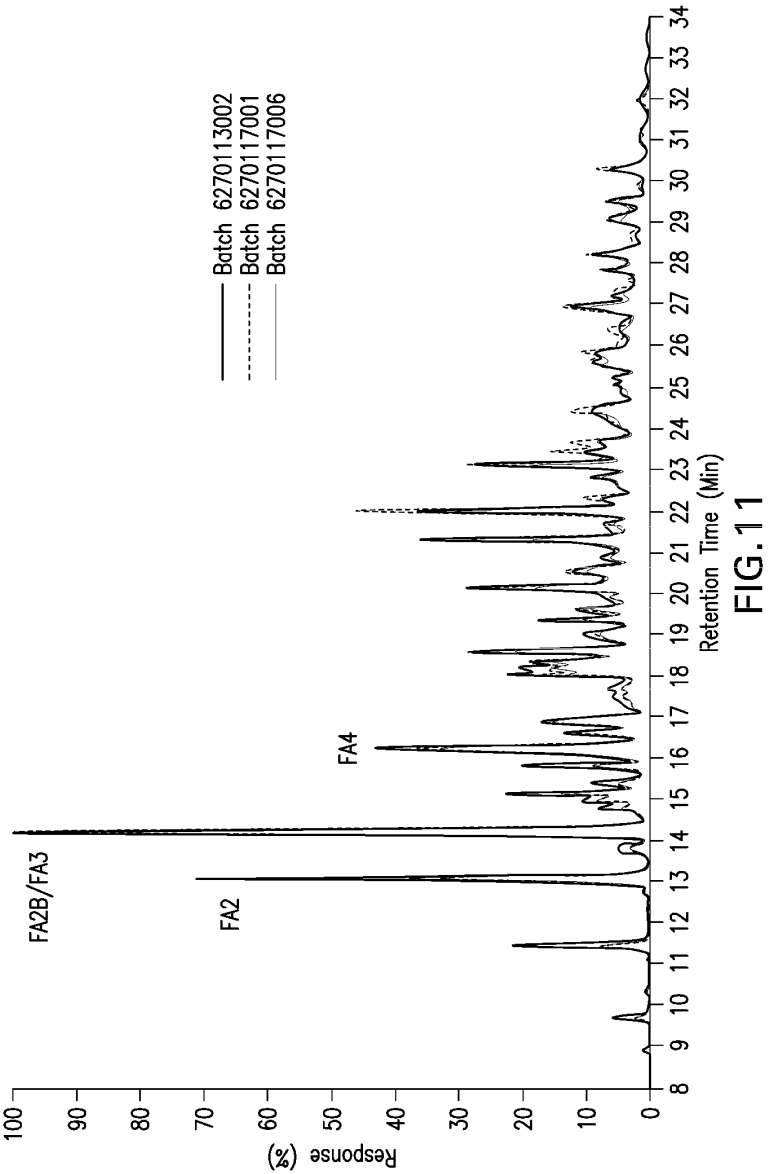


FIG.11

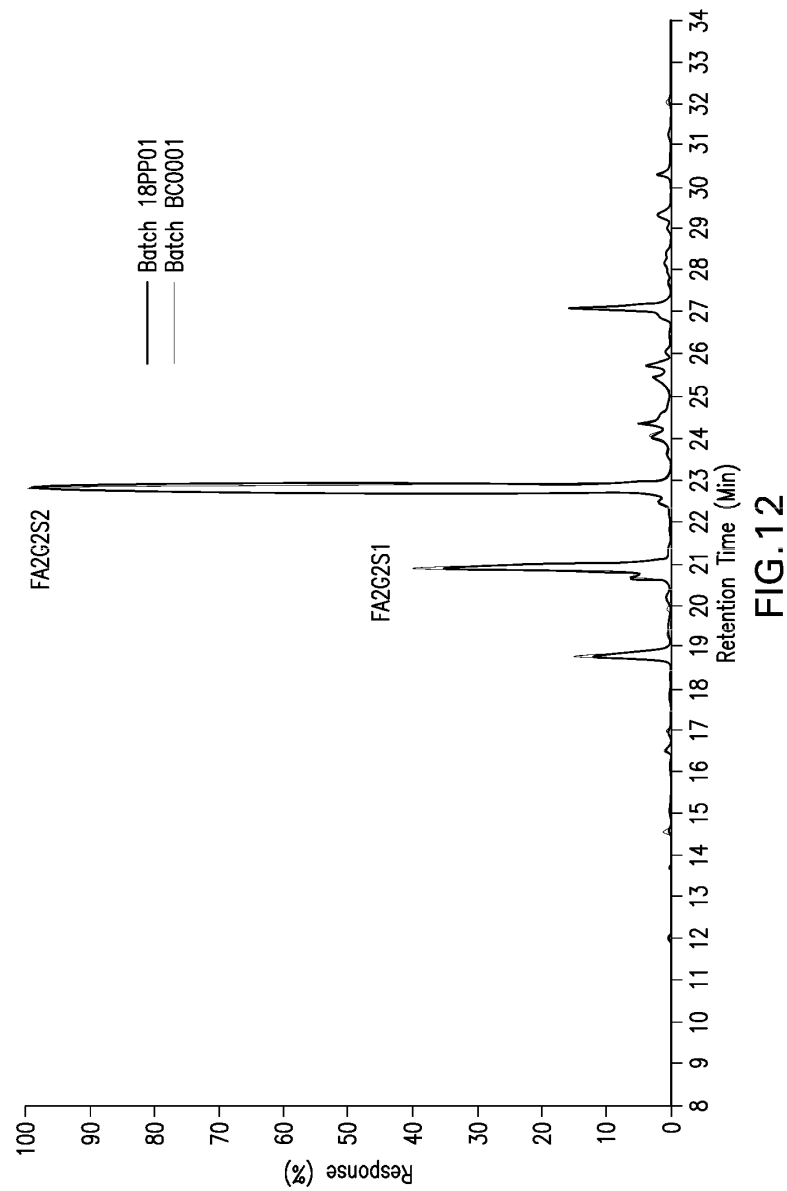


FIG.12

Symbol	Name	Pictogram	Description
A	N-Acetylglucosamine (GlcNAc)		Am: [m]=Total Number Of GlcNAc Linked To Branched Mannoses Of Trimannosyl Core Deciphering The Antennarity e.g. A1: One GlcNAc Either $\beta(1,2)$, $\beta(1,4)$ Or $\beta(1,6)$ Linked To One Branched Mannose Of Trimannosyl Core e.g. A2: Two GlcNAc Each Either $\beta(1,2)$, $\beta(1,4)$, Or $\beta(1,6)$ Linked To One Branched Mannose Of Trimannosyl Core For A Common Bi-Antennary Glycan Note: "A" Refers In General To The Number Of Antennae Of A Base Structure (Section 3.1). In Case Of Addition Of Individual N-Acetylglucosamines, Please Refer Also Below To "B" For Bisecting GlcNAc
Ac	Acetylation	Ac	n/a
B	Bisecting N-Acetyl Glucosamine (GlcNAc)		GlcNAc $\beta(1,4)$ Linking To Core Mannose
F	L-Fucose		Core Fucosylation Is Given At The First Position Of Any N-glycan Antennary Fucosylation Is Given Last
G	D-Galactose		Gm: [m]=Total Number Of Galactoses Each $\beta(1,4)$ Linked To One GlcNAc e.g. G2: Two Galactoses Each $\beta(1,4)$ Linked To One GlcNAc
Ga	D-Galactose		Galactose $\alpha(1,3)$ Linked To Galactose Gam: [m]=Total Number Of Galactoses Each $\alpha(1,3)$ Linked To One Galactose

FIG. 13A

Symbol	Name	Pictogram	Description
Glc	D-Glucose		n/a
Lac	Lactosamine Repeat		One Galactose $\beta(1,4)$ Linked To One GlcNAc $\beta(1,3)$ Linked To Galactose Lacm: [m]=Total Number Of Lactosamine Repeats
M	D-Mannose		Mm: [m]=Total Number Of Mannoses, Including The Three Mannoses Of The Trimannosyl Core Structure
P	Phosphorylation	P	Pm: [m]=Total Number Of Phosphorylations
S	N-Acetylneuraminic Acid (NANA)		S(n,...)m: [n=3 Or 6] $\rightarrow$ S $\alpha(2,3)$ Or S $\alpha(2,6)$ Linked To Galactose [m]=Total Number Of N-acetyl Neuraminic Acids e.g. S(3)1: One S $\alpha(2,3)$ Linked And One S $\alpha(2,6)$ Each Linked To One Galactose
Sg	N-Glycolylneuraminic Acid (NGNA)		Sg(n,...)m: [n=3 Or 6] $\rightarrow$ Sg $\alpha(2,3)$ Or Sg $\alpha(2,6)$ Linked To Galactose [m]=Total Number Of N-Glycolyl Neuraminic Acids e.g. Sg(3)1: One Sg $\alpha(2,3)$ Linked to One Galactose e.g. Sg(3,6)2: One Sg $\alpha(2,3)$ Linked And One Sg $\alpha(2,6)$ Each Linked To One Galactose
Su	Sulfation	Su	n/a

FIG. 13B

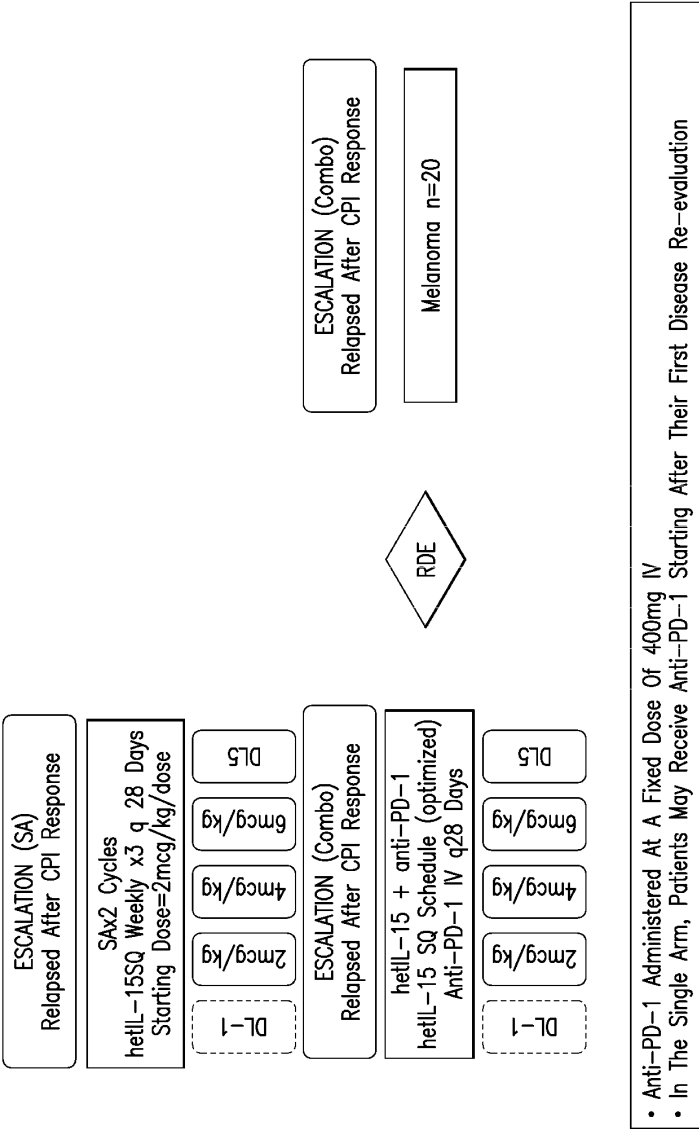


FIG.14

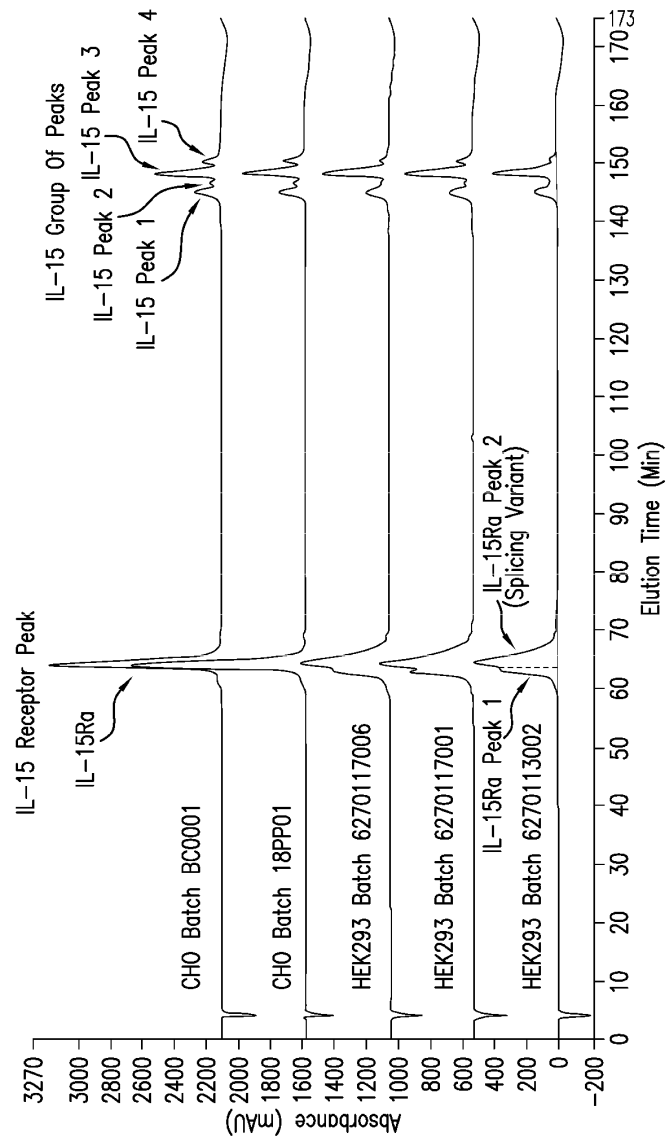


FIG.15