

NCFG DEFINED GLYCAN ARRAY v1

#	COMMON NAME	STRUCTURE*
1	Cellobiose DP3	Glcβ1-4Glcβ1-4Glc-AEAB
2	Cellotetraose DP4	Glcβ1-4Glcβ1-4Glcβ1-4Glc-AEAB
3	Cellopentaose DP5	Glcβ1-4Glcβ1-4Glcβ1-4Glcβ1-4Glc-AEAB
4	Maltotriose DP3	Glcα1-4Glcα1-4Glc-AEAB
5	Maltotetraose DP4	Glcα1-4Glcα1-4Glcα1-4Glc-AEAB
6	Maltopentaose DP5	Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glc-AEAB
7	Maltohexaose DP6	Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glc-AEAB
8	Maltoheptaose DP7	Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glc-AEAB
9	Maltooctaose DP8	Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glc-AEAB
10	Maltononaose DP9	Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glc-AEAB
11	Maltodecaose DP10	Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glcα1-4Glc-AEAB
12	Chitin oligosaccharides DP3 / Chitintriose	GlcNAcβ1-4GlcNAcβ1-4GlcNAc-AEAB
13	Chitin oligosaccharides DP4 / Chitintetraose	GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAc-AEAB
14	Chitin oligosaccharides DP5 / Chitinpentaose	GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAc-AEAB
15	Chitin oligosaccharides DP6 / Chitinhexaose	GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAc-AEAB
16	Chitin oligosaccharides DP7 / Chitinheptaose	GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAcβ1-4GlcNAc-AEAB
17	Para-Lacto-N-neohexaose / Para-LNnH	Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ1-3Galβ1-4Glc-AEAB
18	Lacto-N-neo-octaose / LNnO	Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ1-3Galβ1-4GlcNAcβ1-3Galβ1-4Glc-AEAB
19	Globopentaose analogue type 1 / Gb5 analogue type 1	Galβ1-3GlcNAcβ1-3Galα1-4Galβ1-4Glc-AEAB
20	Globopentaose analogue type 2 / Gb5 analogue type 2	Galβ1-4GlcNAcβ1-3Galα1-4Galβ1-4Glc-AEAB
21	SSEA-4 hexaose analogue type 1	Neu5Acα2-3Galβ1-3GlcNAcβ1-3Galα1-4Galβ1-4Glc-AEAB
22	Sialylated tetraose type 1 / Sialyl Lewis ^x precursor	Neu5Acα2-3Galβ1-3GlcNAcβ1-3Gal-AEAB
23	LS-Tetrasaccharide a / LSTa / Sialyl-lacto-N-tetraose a	Neu5Acα2-3Galβ1-3GlcNAcβ1-3Galβ1-4Glc-AEAB
24	Sialylated tetraose type 2	Neu5Acα2-3Galβ1-4GlcNAcβ1-3Gal-AEAB
25	Sialylated globotriose / 3-Sialyl-Gb3	Neu5Acα2-3Galα1-4Galβ1-4Glc-AEAB
26	Disialylated pentaose type 1	Neu5Acα2-8Neu5Acα2-3Galβ1-3GlcNAcβ1-3Gal-AEAB
27	SSEA-4 tetraose / Stage-Specific Embryonic Antigen-4	Neu5Acα2-3Galβ1-3Galβ1-3Galβ1-4Glc-AEAB
28	SSEA-4 hexaose / Stage-Specific Embryonic Antigen-4	Neu5Acα2-3Galβ1-3GalNAcβ1-3Galα1-4Galβ1-4Glc-AEAB
29	Lacto-N-neofucopentaose / LNnFP-V / LNFP VI	Galβ1-4GlcNAcβ1-3Galβ1-4(Fuca1-3)Glc-AEAB
30	LS-Tetrasaccharide d / LSTd / Sialyl-Lacto-N-tetraose d	Neu5Acα2-3Galβ1-4GlcNAcβ1-3Galβ1-4Glc-AEAB
31	GM3 Ganglioside sugar / 3'Sialyllactose / 3'SL / N-Acetylneuraminylactose	Neu5Acα2-3Galβ1-4Glc-AEAB
32	GD3 Ganglioside sugar / Disialyl lactose / DS-L	Neu5Acα2-8Neu5Acα2-3Galβ1-4Glc-AEAB
33	GT3 Ganglioside sugar	Neu5Acα2-8Neu5Acβ2-8Neu5Acα2-3Galβ1-4Glc-AEAB
34	GM2 Ganglioside sugar	GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glc-AEAB
35	GM2 Ganglioside sugar analogue	Galβ1-4(Neu5Acα2-3)Galβ1-4Glc-AEAB
36	GD2 Ganglioside sugar	GalNAcβ1-4(Neu5Acα2-8Neu5Acα2-3)Galβ1-4Glc-AEAB
37	GT2 Ganglioside sugar	GalNAcβ1-4(Neu5Acα2-8Neu5Acα2-8Neu5Acα2-3)Galβ1-4Glc-AEAB
38	GM1a Ganglioside sugar	Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glc-AEAB
39	GM1b Ganglioside sugar	Neu5Acα2-3Galβ1-3GalNAcβ1-4Galβ1-4Glc-AEAB
40	GD1a Ganglioside sugar	Neu5Acα2-3Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glc-AEAB
41	Fucosyl GM1 Ganglioside sugar	Fuca1-2Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glc-AEAB
42	GD1b Ganglioside sugar	Galβ1-3GalNAcβ1-4(Neu5Acα2-8Neu5Acα2-3)Galβ1-4Glc-AEAB
43	GT1a Ganglioside sugar	Neu5Acα2-8Neu5Acα2-3Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glc-AEAB
44	GT1c Ganglioside sugar	Galβ1-3GalNAcβ1-4(Neu5Acα2-8Neu5Acα2-3)Galβ1-4Glc-AEAB
45	Blood group H antigen pentaose type 1 / Lacto-N-fucopentaose I / LNFP I	Fuca1-2Galβ1-3GlcNAcβ1-3Galβ1-4Glc-AEAB
46	Blood group H antigen pentaose type 2 / Lacto-N-neofucopentaose I / LNFP I	Fuca1-2Galβ1-4GlcNAcβ1-3Galβ1-4Glc-AEAB
47	Isoglobo-H analogue type 1	Fuca1-2Galβ1-3GlcNAcβ1-3Galα1-3Galβ1-4Glc-AEAB
48	Globo-H hexaose / Stage Specific Embryonic Antigen 3b / SSEA-3b	Fuca1-2Galβ1-3GalNAcβ1-3Galα1-4Galβ1-4Glc-AEAB
49	2'2 Difucosyllactose	Fuca1-2Galβ1-4(Fuca1-2)Glc-AEAB
50	Lactodifucotetraose / DF-L / Difucosyllactose	Fuca1-2Galβ1-4(Fuca1-3)Glc-AEAB
51	Blood group H antigen tetraose type 4 Globo H tetraose	Fuca1-2Galβ1-3GalNAcβ1-3Gal-AEAB
52	Blood group H antigen tetraose type 4 Globo H tetraose	Fuca1-2Galβ1-3GalNAcβ1-3Gal-AEAB
53	Blood group A antigen hexaose type 1 / PII	GalNAcα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-3Galβ1-4Glc-AEAB
54	Blood group A antigen hexaose type 2	GalNAcα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-3Galβ1-4Glc-AEAB
55	3-Fucosylated Blood group A tetraose	GalNAcα1-3(Fuca1-2)Galβ1-4(Fuca1-3)Glc-AEAB
56	Blood group A antigen pentaose type 4	GalNAcα1-3(Fuca1-2)Galβ1-3GalNAcβ1-3Gal-AEAB
57	Fucosylated A antigen type 5	GalNAcα1-3(Fuca1-2)Galβ1-4(Fuca1-2)Glc-AEAB
58	Globo-A heptaose	GalNAcα1-3(Fuca1-2)Galβ1-3GalNAcβ1-3Galα1-4Galβ1-4Glc-AEAB
59	Fucosylated B antigen type 5	Galα1-3(Fuca1-2)Galβ1-4(Fuca1-2)Glc-AEAB
60	Blood group B Lewis ^x antigen pentaose type 1	Galα1-3(Fuca1-2)Galβ1-3(Fuca1-4)GlcNAc-AEAB
61	Blood group B antigen pentasaccharide type 4	Galα1-3(Fuca1-2)Galβ1-3GalNAcβ1-3Gal-AEAB
62	Blood group B Lewis ^x antigen pentaose type 2	Galα1-3(Fuca1-2)Galβ1-4(Fuca1-3)GlcNAc-AEAB
63	Blood group B antigen hexaose type 1	Galα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-3Galβ1-4Glc-AEAB
64	Blood group B antigen hexaose type 2	Galα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-3Galβ1-4Glc-AEAB
65	Globo-B heptaose	Galα1-3(Fuca1-2)Galβ1-3GalNAcβ1-3Galα1-4Galβ1-4Glc-AEAB
66	Forsman antigen pentaose	GalNAcα1-3GalNAcβ1-3Galα1-4Galβ1-4Glc-AEAB
67	Globotriose / Gb3 / Pk antigen	Galα1-4Galβ1-4Glc-AEAB

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68	Globotetraose / Gb4 / P antigen	GalNAcβ1-3Galα1-4Galβ1-4Glc-AEAB
69	Forsman antigen triaose	GalNAcα1-3GalNAcβ1-3Gal-AEAB
70	Isoforsman antigen pentaose	GalNAcα1-3GalNAcβ1-3Galα1-3Galβ1-4Glc-AEAB
71	3-Fucosylated Blood group B tetraose	Galα1-3(Fuca1-2)Galβ1-4(Fuca1-3)Glc-AEAB
72	P1 antigen / Globotriaose analogue type 2	Galα1-4Galβ1-4GlcNAc-AEAB
73	Sialyl Lewis ^x (sLe ^x) tetraose	Neu5Acα2-3Galβ1-4(Fuca1-3)GlcNAc-AEAB
74	Sialyl Lewis ^x (sLe ^x) pentaose	Neu5Acα2-3Galβ1-4(Fuca1-3)GlcNAcβ1-3Gal-AEAB
75	Lewis ^x (Le ^x) tetraose	Galβ1-4(Fuca1-3)GlcNAcβ1-3Gal-AEAB
76	Lewis ^x (Le ^x) hexaose / Lacto-N-neoDiFucohexaose / LNnDFH	Galβ1-4(Fuca1-3)GlcNAcβ1-3Galβ1-4(Fuca1-3)Glc-AEAB
77	Lewis ^y (Le ^y) pentaose	Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ1-3Gal-AEAB
78	Lewis ^a (Le ^a) tetraose	Galβ1-3(Fuca1-4)GlcNAcβ1-3Gal-AEAB
79	Lewis ^a (Le ^a) hexaose / Lacto-N-difucohexaose II / LNDFH II	Galβ1-3(Fuca1-4)GlcNAcβ1-3Galβ1-4(Fuca1-3)Glc-AEAB
80	Lewis ^b (Le ^b) pentaose	Fuca1-2Galβ1-3(Fuca1-4)GlcNAcβ1-3Gal-AEAB
81	Lacto-N-fucopentaose V / LNFP V	Galβ1-3GlcNAcβ1-3Galβ1-4(Fuca1-3)Glc-AEAB
82	3'-Sialyl-3Fucosyllactose / F-SL	Neu5Acα-3Galβ1-4(Fuca1-3)Glc-AEAB
83	Isoglobotriaose / iGb3 / 3'-Galactosyl-lactose / Linear B-6 trisaccharide	Galα1-3Galβ1-4Glc-AEAB
84	Galili antigen pentaose	Galα1-3Galβ1-4GlcNAcβ1-3Galβ1-4Glc-AEAB
85	Xeno antigen type 1	Galα1-3Galβ1-3GlcNAc-AEAB
86	Xeno antigen type 2 / Galili antigen triaose / Galα1-3 epitope / Linear B-2 trisaccharide	Galα1-3Galβ1-4GlcNAc-AEAB
87	Xeno Lewis ^x / α-Gal-Lewis ^x	Galα1-3Galβ1-4(Fuca1-3)GlcNAc-AEAB
88	α-3Galactosyl-3Fucosyllactose	Galα1-3Galβ1-4(Fuca1-3)Glc-AEAB
89	Galili antigen heptaose	Galα1-3[Galβ1-4GlcNAcβ1-3]2Galβ1-4Glc-AEAB
90	Galili antigen nonaose	Galα1-3[Galβ1-4GlcNAcβ1-3]3Galβ1-4Glc-AEAB
91	Galili antigen undecaose	Galα1-3[Galβ1-4GlcNAcβ1-3]4Galβ1-4Glc-AEAB
92	Glucuronyl-lactose / HNK 1 epitope precursor	GlcAβ1-3Galβ1-4Glc-AEAB
93	Glucuronyl-LNT / Glucuronyl-Lacto-N-tetraose	GlcAβ1-3Galβ1-3GlcNAcβ1-3Galβ1-4Glc-AEAB
94	Isoglobotetraose / iGb4 / Cytolipin R	GalNAcβ1-3Galα1-3Galβ1-4Glc-AEAB
95	Isoglobopentaose / iGb5	Galβ1-3GalNAcβ1-3Galα1-3Galβ1-4Glc-AEAB
96	aGM1 / Ganglioside sugar asialo GM1 / GA1	Galβ1-3GalNAcβ1-4Galβ1-4Glc-AEAB
97	aGM2 / Ganglioside sugar / asialo GM2 / GA2	GalNAcβ1-4Galβ1-4Glc-AEAB
98	GalGalNac-aGM1 (GalGalNac asialo GM1) Ganglioside sugar	Galβ1-3GalNAcβ1-4Galβ1-3GalNAcβ1-4Galβ1-4Glc-AEAB
99	Globopentaose (Gb5) / Stage Specific Embryonic Antigen 3a / SSEA-3a	Galβ1-3GalNAcβ1-3Galα1-4Galβ1-4Glc-AEAB
100	Core type 4 / Gb5 Triaose core structure	Galβ1-3GalNAcβ1-3Gal-AEAB

*AEAB: 2-Amino-N-(2-amino-ethyl)-benzamide. Reducing end saccharides undergo ring opening during conjugation with AEAB.