

Supplementary Table 1

List of assigned peaks of N-glycans by MALDI-TOF-MS analysis in cell lines

Composition	MDCK		SIAT1		hCK		Remarks
	Mass (m/z)	%	Mass (m/z)	%	Mass (m/z)	%	
Hex5 HexNAc2	1579.8	50.03	1579.9	20.96	1579.9	43.64	
Fuc1 Hex3 HexNAc3	1590.8	1.35	1590.9	0.89	1591.0	3.14	
Hex4 HexNAc3	1620.9	0.84	1620.9	0.25	1621.0	2.55	
Hex6 HexNAc2	1784.0	57.73	1784.1	55.89	1784.2	64.88	
Fuc1 Hex4 HexNAc3	1795.1	1.84	1795.1	0.43	1795.2	3.58	
Fuc1 Hex3 HexNAc4	1836.1	8.11	1836.2	5.51	1836.3	12.58	
Hex4 HexNAc4	1866.1	1.03	1866.2	0.90	1866.3	1.90	
Hex3 HexNAc5	1907.2	0.93	1907.3	0.95	1907.3	4.31	
Fuc2 Hex4 HexNAc3	1968.2	0.55	1968.3	0.57	1968.3	0.38	
NeuAc1 Hex4 HexNAc3	1982.3	0.83	1982.4	0.97	1982.4	4.24	
Hex7 HexNAc2	1988.2	65.65	1988.3	52.65	1988.4	73.28	
Fuc1 Hex4 HexNAc4	2040.3	1.76	2040.4	1.18	2040.5	2.35	
Hex5 HexNAc4	2070.3	5.64	2070.4	5.26	2070.5	5.31	
Fuc1 Hex3 HexNAc5	2081.3	7.00	2081.4	5.37	2081.5	14.62	
Hex4 HexNAc5	2111.3	1.43	2111.4	0.83	2111.5	1.71	
NeuAc1 Fuc1 Hex4 HexNAc3	2156.4	4.09	2156.5	2.88	2156.5	17.68*	*Sialylated product
NeuAc1 Hex5 HexNAc3	2186.4	4.88	2186.5	5.33	2186.6	6.42	
Hex8 HexNAc2	2192.4	93.62	2192.5	88.87	2192.5	88.59	
Fuc2 Hex4 HexNAc4	2214.4	1.37	2213.5	1.09	2213.5	0.72	
NeuAc1 Hex4 HexNAc4	2227.4	0.98	2227.5	1.22	2227.6	3.18	
Fuc1 Hex5 HexNAc4	2244.4	5.61	2244.5	4.60	2244.6	5.61	
Hex6 HexNAc4	2274.4	2.59	2274.5	1.45	2274.6	1.31	
Fuc1 Hex4 HexNAc5	2285.4	2.62	2285.5	1.07	2285.6	2.81	
Hex5 HexNAc5	2315.4	3.77	2315.6	0.75	2314.6	0.93	
Fuc1 Hex3 HexNAc6	2326.6	2.95	2326.7	2.38	2326.7	9.37	
NeuAc1 Hex6 HexNAc3	2390.5	7.70	2390.6	10.90	2390.7	7.30	
Hex9 HexNAc2	2396.5	100.00	2396.7	100.00	2396.7	100.00	Relative Intensity
NeuAc1 Fuc1 Hex4 HexNAc4	2402.4	1.76	2402.6	2.37	2401.6	9.16	
Fuc2 Hex5 HexNAc4	2418.5	1.32	2417.6	2.00	2417.7	1.97	
NeuAc1 Hex5 HexNAc4	2431.5	3.43	2431.6	4.89	2431.7	5.65	
Fuc1 Hex5 HexNAc5	2489.5	6.20	2489.6	0.94	2489.7	1.21	
Hex6 HexNAc5	2519.5	2.12	2519.6	0.49	2519.7	0.75	
Fuc3 Hex5 HexNAc4	2592.5	1.72	2591.6	1.37	2591.7	1.31	
NeuAc1 Fuc1 Hex5 HexNAc4	2605.5	6.23	2605.7	7.62	2605.8	9.61*	*Sialylated product

Composition	MDCK		SIAT1		hCK		Remarks
	Mass (m/z)	%	Mass (m/z)	%	Mass (m/z)	%	
NeuAc ₁ Fuc ₁ Hex ₅ HexNAc ₄	2635.5	7.35	2635.7	5.77	2635.8	3.90	
NeuAc ₁ Hex ₆ HexNAc ₄							
NeuAc ₁ Fuc ₁ Hex ₄ HexNAc ₅	2646.5	2.09	2646.7	4.31*	2646.8	8.25*	*Sialylated bisected product
Fuc ₂ Hex ₅ HexNAc ₅	2663.5	2.79	2662.7	1.54	2662.7	0.98	
NeuAc ₁ Hex ₅ HexNAc ₅	2677.5	1.86	2676.7	2.35	2676.8	2.02	
Fuc ₁ Hex ₆ HexNAc ₅	2693.5	6.63	2693.6	0.54	2693.8	0.95	
Fuc ₁ Hex ₅ HexNAc ₆	2734.5	0.82	2734.6	0.30	2734.8	1.02	
Hex ₆ HexNAc ₆	2764.1	0.12	2764.4	0.10	2764.8	0.64	
NeuAc ₁ Fuc ₂ Hex ₅ HexNAc ₄	2779.5	3.67	2778.7	1.99	2778.8	1.37	
NeuAc ₂ Hex ₅ HexNAc ₄	2792.4	0.68	2792.7	7.04	2792.8	6.87	
NeuAc ₁ Fuc ₁ Hex ₆ HexNAc ₄	2809.6	13.34	2809.4	0.28	2809.8	1.98	
Fuc ₃ Hex ₅ HexNAc ₅	2837.5	2.33	2836.7	3.34	2836.8	1.23	
NeuAc ₁ Fuc ₁ Hex ₅ HexNAc ₅	2850.5	4.79	2850.7	5.76	2850.8	4.52	
Fuc ₂ Hex ₆ HexNAc ₅	2867.5	8.98	2866.6	0.97	2866.8	0.66	
NeuAc ₁ Hex ₆ HexNAc ₅	2880.5	2.72	2880.7	2.40	2880.8	1.96	
Fuc ₁ Hex ₆ HexNAc ₆	2938.5	1.70	2938.7	0.86	2938.8	0.67	
NeuAc ₁ Fuc ₃ Hex ₅ HexNAc ₄	2953.5	0.90	2952.7	1.79	2952.8	1.13	
NeuAc ₂ Fuc ₁ Hex ₅ HexNAc ₄	2966.5	7.42	2966.7	17.23*	2966.8	22.40*	*Sialylated product
NeuAc ₁ Fuc ₂ Hex ₅ HexNAc ₅	3024.5	2.20	3023.6	2.14	3024.7	0.87	
NeuAc ₂ Hex ₅ HexNAc ₅	3037.5	0.86	3037.6	6.64*	3037.7	2.05	*Sialylated/bisected product
Fuc ₃ Hex ₆ HexNAc ₅	3040.5	1.60	3040.5	1.87	3040.7	0.57	
NeuAc ₁ Fuc ₁ Hex ₆ HexNAc ₅	3054.5	8.16	3054.7	5.55	3054.7	2.78	
Fuc ₂ Hex ₆ HexNAc ₆	3112.5	1.44	3112.6	0.76	3112.6	0.31	
NeuAc ₁ Hex ₆ HexNAc ₆	3126.4	0.87	3125.6	0.67	3125.7	1.34	
NeuAc ₂ Fuc ₂ Hex ₅ HexNAc ₄	3140.5	0.80	3140.6	0.54	3140.7	0.49	
Fuc ₁ Hex ₇ HexNAc ₆	3142.5	2.75	3142.6	1.18	3142.7	0.79	
Fuc ₁ Hex ₆ HexNAc ₇	3183.4	0.43	3183.6	0.73	3183.6	0.23	
NeuAc ₁ Fuc ₃ Hex ₅ HexNAc ₅	3198.4	0.64	3197.6	3.12	3197.7	0.55	
NeuAc ₂ Fuc ₁ Hex ₅ HexNAc ₅	3212.4	5.27	3212.6	39.75*	3212.6	11.33*	*Sialylated/bisected product
Hex ₇ HexNAc ₇	3213.4	5.62	3213.8	25.82	3214.0	5.10	
NeuAc ₁ Fuc ₂ Hex ₆ HexNAc ₅	3228.4	1.67	3227.5	2.42	3227.6	1.18	
NeuAc ₂ Hex ₆ HexNAc ₅	3240.4	0.83	3241.6	3.33	3241.7	1.36	
Fuc ₃ Hex ₆ HexNAc ₆	3286.4	1.11	3285.5	0.88	3285.6	0.66	
NeuAc ₁ Fuc ₁ Hex ₆ HexNAc ₆	3299.4	2.64	3299.5	1.14	3299.6	2.69	
NeuAc ₁ Hex ₇ HexNAc ₇	3314.5	0.54	3314.7	0.38	3314.7	0.33	
Fuc ₂ Hex ₇ HexNAc ₆	3316.4	1.90	3316.7	0.78	3316.7	0.87	

Composition	MDCK		SIAT1		hCK		Remarks
	Mass (m/z)	%	Mass (m/z)	%	Mass (m/z)	%	
NeuAc ₃ Fuc ₂ Hex ₅ HexNAc ₄	3327.4	0.32	3327.6	0.36	3327.7	0.22	
NeuAc ₁ Fuc ₁ Hex ₇ HexNAc ₆	3329.3	1.00	3329.6	0.68	3329.6	1.53	
NeuAc ₂ Fuc ₂ Hex ₅ HexNAc ₅	3385.6	0.27	3385.7	0.34	3385.6	0.18	
Fuc ₁ Hex ₇ HexNAc ₇	3387.3	0.67	3387.6	0.89	3387.5	0.27	
NeuAc ₁ Fuc ₃ Hex ₆ HexNAc ₅	3402.4	0.77	3402.0	0.27	3401.6	0.53	
NeuAc ₂ Fuc ₁ Hex ₆ HexNAc ₅	3416.2	1.94	3415.5	4.82*	3415.6	2.86*	*Sialylated product
NeuAc ₁ Fuc ₂ Hex ₆ HexNAc ₆	3473.3	1.36	3472.4	1.12	3473.5	0.49	
NeuAc ₂ Hex ₆ HexNAc ₆	3486.4	0.62	3486.4	1.69	3486.4	0.27	
NeuAc ₂ Fuc ₄ Hex ₅ HexNAc ₄	3489.3	1.73	3488.9	0.60	3487.5	0.83	
Fuc ₃ Hex ₇ HexNAc ₆	3490.3	3.29	3490.4	0.48	3490.4	0.64	
NeuAc ₁ Fuc ₁ Hex ₇ HexNAc ₆	3503.3	3.88	3503.4	1.34	3503.5	2.67	
NeuAc ₂ Fuc ₂ Hex ₅ HexNAc ₅	3559.8	0.12	3559.9	0.09	3560.0	0.04	
Fuc ₂ Hex ₇ HexNAc ₇	3561.2	0.56	3561.8	0.14	3561.8	0.13	
NeuAc ₁ Hex ₇ HexNAc ₇	3574.5	0.26	3574.3	0.43	3574.4	0.26	
NeuAc ₂ Fuc ₂ Hex ₆ HexNAc ₅	3590.2	1.47	3589.4	2.28	3589.4	0.80	
Fuc ₁ Hex ₈ HexNAc ₇	3591.8	0.38	3591.8	1.00	3591.9	0.43	
NeuAc ₃ Hex ₆ HexNAc ₅	3604.2	0.71	3603.0	0.35	3602.4	0.99	
Fuc ₁ Hex ₇ HexNAc ₈	3633.0	0.28	3632.3	0.57	3632.4	0.28	
NeuAc ₁ Fuc ₃ Hex ₆ HexNAc ₆	3647.2	0.73	3646.3	2.06	3646.4	0.34	
NeuAc ₂ Fuc ₁ Hex ₆ HexNAc ₆	3661.0	1.93	3661.2	8.78*	3661.3	3.51*	*Sialylated product
Hex ₈ HexNAc ₈	3662.8	0.72	3662.7	3.44	3662.7	2.44	
NeuAc ₁ Fuc ₂ Hex ₇ HexNAc ₆	3677.1	2.68	3676.3	0.91	3676.4	0.57	
NeuAc ₂ Hex ₇ HexNAc ₆	3691.1	0.99	3690.3	1.45	3690.4	1.30	
Fuc ₃ Hex ₇ HexNAc ₇	3736.1	0.55	3735.8	0.19	3736.1	0.13	
NeuAc ₁ Fuc ₁ Hex ₇ HexNAc ₇	3748.0	0.91	3748.2	0.57	3748.3	0.76	
NeuAc ₂ Fuc ₃ Hex ₆ HexNAc ₅	3764.0	0.79	3763.5	0.69	3763.3	0.30	
NeuAc ₃ Fuc ₁ Hex ₆ HexNAc ₅	3776.9	1.55	3777.2	12.24*	3777.2	2.79*	*Sialylated product
Fuc ₂ Hex ₇ HexNAc ₈	3807.0	0.57	3806.1	0.60	3807.3	0.33	
NeuAc ₂ Fuc ₂ Hex ₆ HexNAc ₆	3834.0	0.66	3834.2	1.37	3834.2	0.42	
Fuc ₁ Hex ₈ HexNAc ₈	3837.0	1.60	3837.1	1.97	3837.1	0.37	
NeuAc ₃ Hex ₆ HexNAc ₆	3848.0	0.52	3848.1	1.81	3848.1	0.25	
NeuAc ₁ Fuc ₃ Hex ₇ HexNAc ₆	3852.0	1.96	3851.5	1.49	3851.3	1.55	
NeuAc ₂ Fuc ₁ Hex ₇ HexNAc ₆	3865.1	6.38	3865.1	6.43	3865.4	6.71	
Fuc ₄ Hex ₇ HexNAc ₇	3910.9	0.93	3910.1	0.58	3910.2	0.30	
NeuAc ₂ Hex ₇ HexNAc ₇	3937.8	0.66	3937.1	0.33	3937.1	0.23	
NeuAc ₂ Fuc ₄ Hex ₆ HexNAc ₅	3938.0	0.85	3938.2	0.77	3938.4	0.31	

Composition	MDCK		SIAT1		hCK		Remarks
	Mass (m/z)	%	Mass (m/z)	%	Mass (m/z)	%	
Fuc3 Hex8 HexNAc7	3940.0	1.64	3940.1	0.89	3940.2	0.50	
NeuAc3 Fuc2 Hex6 HexNAc5	3951.9	1.42	3951.0	0.52	3951.1	0.13	
NeuAc1 Fuc1 Hex8 HexNAc7	3953.1	2.06	3953.3	0.88	3953.2	1.51	
NeuAc2 Fuc3 Hex6 HexNAc6	4007.8	0.40	4009.0	2.36	4009.1	0.33	
Fuc2 Hex8 HexNAc8	4011.1	0.37	4011.4	0.47	4011.3	0.21	
NeuAc3 Fuc1 Hex6 HexNAc6	4022.1	0.70	4022.0	18.94*	4022.2	1.82*	*Sialylated bisected product
NeuAc1 Hex8 HexNAc8	4024.3	0.37	4024.3	8.35	4024.3	1.20	
NeuAc1 Fuc4 Hex7 HexNAc6	4026.1	0.53	4026.0	5.34	4026.0	0.70	
NeuAc2 Fuc2 Hex7 HexNAc6	4039.3	0.28	4039.1	1.64	4039.1	1.31	
NeuAc3 Hex7 HexNAc6	4052.7	0.59	4051.9	2.11	4051.1	1.52	
NeuAc3 Fuc3 Hex6 HexNAc5	4125.7	1.13	4124.8	0.31	4124.9	0.20	
NeuAc1 Fuc2 Hex8 HexNAc7	4127.0	0.99	4127.1	0.41	4127.0	0.43	
NeuAc4 Fuc1 Hex6 HexNAc5	4138.5	0.25	4138.8	0.39	4138.9	0.27	
NeuAc2 Hex8 HexNAc7	4141.6	0.72	4140.2	0.30	4140.3	0.17	
NeuAc2 Fuc4 Hex6 HexNAc6	4183.4	0.23	4183.6	0.14	4183.6	0.05	
Fuc3 Hex8 HexNAc8	4184.6	0.33	4185.2	0.11	4184.9	0.17	
NeuAc1 Fuc1 Hex8 HexNAc8	4197.6	0.34	4197.9	0.55	4197.6	0.05	
NeuAc2 Fuc3 Hex7 HexNAc6	4211.6	0.47	4211.9	0.64	4210.8	0.22	
NeuAc3 Fuc1 Hex7 HexNAc6	4225.8	2.27	4225.9	2.67	4225.9	3.97*	*Sialylated product
NeuAc2 Fuc2 Hex7 HexNAc7	4284.3	0.55	4284.6	0.52	4284.6	0.16	
Fuc1 Hex9 HexNAc9	4286.4	0.80	4286.1	0.19	4286.1	0.12	
NeuAc3 Hex7 HexNAc7	4298.4	0.58	4297.6	0.42	4297.7	0.17	
NeuAc3 Fuc4 Hex6 HexNAc5	4299.2	0.28	4299.2	0.18	4299.2	0.08	
NeuAc1 Fuc3 Hex8 HexNAc7	4301.5	1.44	4301.2	0.19	4301.2	0.11	
NeuAc2 Fuc1 Hex8 HexNAc7	4314.2	1.41	4314.4	1.41	4313.8	1.77	
NeuAc2 Hex8 HexNAc8	4385.3	0.22	4385.2	0.07	4385.2	0.04	
NeuAc2 Fuc4 Hex7 HexNAc6	4387.6	0.28	4387.2	0.08	4387.2	0.04	
Fuc3 Hex9 HexNAc8	4389.2	0.31	4389.2	0.06	4389.2	0.04	
NeuAc3 Fuc2 Hex7 HexNAc6	4399.3	0.51	4399.7	0.30	4399.8	0.21	
NeuAc1 Fuc1 Hex9 HexNAc8	4402.5	0.93	4402.4	0.50	4402.4	0.17	
NeuAc4 Hex7 HexNAc6	4413.2	0.87	4412.4	0.28	4412.4	0.31	
NeuAc3 Fuc1 Hex7 HexNAc7	4471.4	1.30	4471.2	1.29	4471.2	0.11	
NeuAc1 Hex9 HexNAc9	4473.5	0.69	4473.5	1.60	4473.5	0.40	
NeuAc1 Fuc4 Hex8 HexNAc7	4475.4	0.44	4475.6	0.38	4475.6	0.14	
NeuAc2 Fuc2 Hex8 HexNAc7	4486.2	0.60	4487.6	0.39	4487.5	0.37	
NeuAc3 Hex8 HexNAc7	4501.1	0.32	4500.3	0.28	4500.3	0.25	

Composition	MDCK		SIAT1		hCK		Remarks
	Mass (m/z)	%	Mass (m/z)	%	Mass (m/z)	%	
NeuAc ₃ Fuc ₃ Hex ₇ HexNAc ₆	4573.0	0.31	4574.2	0.33	4574.2	0.09	
NeuAc ₁ Fuc ₂ Hex ₉ HexNAc ₈	4576.6	0.23	4576.3	0.26	4576.3	0.13	
NeuAc ₄ Fuc ₁ Hex ₇ HexNAc ₆	4587.3	3.04	4587.4	1.98	4587.4	1.64	
NeuAc ₂ Fuc ₄ Hex ₇ HexNAc ₇	4632.3	0.11	4632.4	0.09	4632.4	0.05	
Fuc ₃ Hex ₉ HexNAc ₉	4634.4	0.10	4634.2	0.14	4634.2	0.05	
NeuAc ₃ Fuc ₂ Hex ₇ HexNAc ₇	4645.7	0.16	4645.8	0.06	4645.8	0.02	
NeuAc ₁ Fuc ₁ Hex ₉ HexNAc ₉	4647.7	0.13	4647.2	0.22	4647.2	0.06	
NeuAc ₁ Fuc ₅ Hex ₈ HexNAc ₇	4649.5	0.08	4649.2	0.12	4649.2	0.04	
NeuAc ₂ Fuc ₃ Hex ₈ HexNAc ₇	4662.5	0.13	4662.3	0.34	4662.3	0.04	
NeuAc ₃ Fuc ₁ Hex ₈ HexNAc ₇	4675.1	1.74	4675.1	3.68*	4675.1	2.00	*Sialylated product
NeuAc ₁ Fuc ₄ Hex ₈ HexNAc ₈	4719.8	0.27	4719.9	0.16	4720.1	0.06	
NeuAc ₂ Fuc ₂ Hex ₈ HexNAc ₈	4733.6	0.17	4733.4	0.06	4733.4	0.03	
Fuc ₁ Hex ₁₀ HexNAc ₁₀	4735.5	0.09	4735.4	0.07	4735.4	0.03	
NeuAc ₃ Hex ₈ HexNAc ₈	4746.7	0.17	4746.4	0.08	4746.4	0.03	
NeuAc ₃ Fuc ₄ Hex ₇ HexNAc ₆	4748.5	0.15	4748.4	0.10	4748.4	0.04	
NeuAc ₁ Fuc ₃ Hex ₉ HexNAc ₈	4750.5	0.17	4750.4	0.10	4750.4	0.04	
NeuAc ₄ Fuc ₂ Hex ₇ HexNAc ₆	4760.7	0.31	4760.9	0.23	4761.0	0.11	
NeuAc ₂ Fuc ₁ Hex ₉ HexNAc ₈	4763.5	0.39	4763.5	0.12	4763.5	0.08	
NeuAc ₂ Fuc ₅ Hex ₇ HexNAc ₇	4806.6	0.10	4806.4	0.04	4806.4	0.02	
Fuc ₄ Hex ₉ HexNAc ₉	4808.6	0.30	4808.4	0.04	4808.4	0.02	
NeuAc ₃ Fuc ₃ Hex ₇ HexNAc ₇	4819.5	0.10	4819.4	0.04	4819.4	0.01	
NeuAc ₁ Fuc ₂ Hex ₉ HexNAc ₉	4821.5	0.14	4821.4	0.05	4821.4	0.02	
NeuAc ₁ Fuc ₆ Hex ₈ HexNAc ₇	4823.7	0.11	4823.4	0.04	4823.4	0.02	
NeuAc ₂ Hex ₉ HexNAc ₉	4834.5	0.35	4834.6	0.24	4834.6	0.03	
NeuAc ₂ Fuc ₄ Hex ₈ HexNAc ₇	4836.6	0.21	4836.4	0.07	4836.4	0.03	
NeuAc ₃ Fuc ₂ Hex ₈ HexNAc ₇	4849.1	0.11	4849.4	0.06	4849.4	0.03	
NeuAc ₁ Fuc ₁ Hex ₁₀ HexNAc ₉	4851.6	0.34	4851.4	0.07	4851.4	0.03	
NeuAc ₄ Hex ₈ HexNAc ₇	4862.6	0.21	4861.8	0.25	4861.8	0.10	
NeuAc ₁ Fuc ₅ Hex ₈ HexNAc ₈	4894.6	0.10	4894.5	0.06	4894.5	0.02	
NeuAc ₂ Fuc ₃ Hex ₈ HexNAc ₈	4907.6	0.14	4907.5	0.12	4907.5	0.02	
Fuc ₂ Hex ₁₀ HexNAc ₁₀	4909.5	0.13	4909.5	0.07	4909.5	0.02	
NeuAc ₃ Fuc ₁ Hex ₈ HexNAc ₈	4920.7	0.20	4920.5	0.50	4920.5	0.05	
NeuAc ₁ Hex ₁₀ HexNAc ₁₀	4922.5	0.29	4922.5	0.28	4922.5	0.04	
NeuAc ₁ Fuc ₄ Hex ₉ HexNAc ₈	4924.5	0.18	4924.6	0.13	4924.6	0.04	
NeuAc ₂ Fuc ₂ Hex ₉ HexNAc ₈	4937.7	0.35	4937.5	0.24	4937.6	0.12	
NeuAc ₅ Fuc ₁ Hex ₇ HexNAc ₆	4948.4	0.12	4947.5	0.09	4947.5	0.03	

Composition	MDCK		SIAT1		hCK		Remarks
	Mass (m/z)	%	Mass (m/z)	%	Mass (m/z)	%	
NeuAc ₃ Hex ₉ HexNAc ₈	4950.6	0.14	4950.5	0.24	4950.5	0.12	
NeuAc ₂ Fuc ₆ Hex ₇ HexNAc ₇	4980.5	0.07	4980.5	0.09	4980.5	0.02	
NeuAc ₃ Fuc ₄ Hex ₇ HexNAc ₇	4993.5	0.06	4993.4	0.08	4993.5	0.02	
NeuAc ₁ Fuc ₃ Hex ₉ HexNAc ₉	4995.3	0.15	4995.5	0.08	4995.5	0.03	
NeuAc ₂ Fuc ₁ Hex ₉ HexNAc ₉	5008.8	0.05	5008.5	0.13	5008.7	0.04	
NeuAc ₂ Fuc ₅ Hex ₈ HexNAc ₇	5010.6	0.06	5010.5	0.07	5010.5	0.03	
NeuAc ₃ Fuc ₃ Hex ₈ HexNAc ₇	5023.5	0.10	5023.7	0.06	5023.6	0.03	
NeuAc ₁ Fuc ₂ Hex ₁₀ HexNAc ₉	5025.6	0.10	5025.6	0.08	5025.6	0.03	
NeuAc ₄ Fuc ₁ Hex ₈ HexNAc ₇	5036.7	0.17	5036.3	0.86*	5036.3	0.08	*Sialylated product
NeuAc ₁ Fuc ₆ Hex ₈ HexNAc ₈	5068.6	0.04	5068.4	0.11	5068.4	0.03	
NeuAc ₂ Fuc ₄ Hex ₈ HexNAc ₈	5081.6	0.04	5081.6	0.05	5081.6	0.02	
Fuc ₃ Hex ₁₀ HexNAc ₁₀	5083.5	0.05	5083.6	0.05	5083.6	0.02	
NeuAc ₃ Fuc ₂ Hex ₈ HexNAc ₈	5094.8	0.05	5094.6	0.06	5094.6	0.02	
NeuAc ₁ Fuc ₁ Hex ₁₀ HexNAc ₁₀	5096.8	0.05	5096.5	0.07	5096.6	0.02	
NeuAc ₁ Fuc ₅ Hex ₉ HexNAc ₈	5098.6	0.04	5098.7	0.03	5098.6	0.01	
NeuAc ₂ Fuc ₃ Hex ₉ HexNAc ₈	5111.3	0.14	5111.4	0.18	5111.4	0.05	
NeuAc ₃ Fuc ₁ Hex ₉ HexNAc ₈	5124.8	0.34	5125.2	1.22*	5125.2	0.46	*Sialylated product
NeuAc ₁ Fuc ₄ Hex ₉ HexNAc ₉	5169.7	0.17	5169.8	0.03	5169.8	0.02	
NeuAc ₂ Fuc ₂ Hex ₉ HexNAc ₉	5182.9	0.09	5182.6	0.03	5182.6	0.01	
NeuAc ₂ Fuc ₆ Hex ₈ HexNAc ₇	5184.8	0.06	5184.7	0.02	5184.7	0.01	
NeuAc ₃ Hex ₉ HexNAc ₉	5195.8	0.08	5195.5	0.03	5195.5	0.02	
NeuAc ₃ Fuc ₄ Hex ₈ HexNAc ₇	5197.7	0.09	5197.9	0.05	5197.8	0.01	
NeuAc ₁ Fuc ₃ Hex ₁₀ HexNAc ₉	5199.7	0.08	5199.7	0.03	5199.6	0.02	
NeuAc ₄ Fuc ₂ Hex ₈ HexNAc ₇	5210.9	0.21	5210.7	0.04	5210.7	0.02	
NeuAc ₂ Fuc ₁ Hex ₁₀ HexNAc ₉	5212.7	0.16	5212.6	0.04	5212.6	0.03	
NeuAc ₂ Fuc ₅ Hex ₈ HexNAc ₈	5255.6	0.06	5255.6	0.02	5255.6	0.01	
NeuAc ₃ Fuc ₃ Hex ₈ HexNAc ₈	5268.7	0.05	5268.7	0.03	5268.7	0.01	
NeuAc ₁ Fuc ₂ Hex ₁₀ HexNAc ₁₀	5270.5	0.04	5270.7	0.03	5270.7	0.02	
NeuAc ₁ Fuc ₆ Hex ₉ HexNAc ₈	5272.8	0.04	5272.8	0.02	5272.8	< 0.01	
NeuAc ₂ Hex ₁₀ HexNAc ₁₀	5283.7	0.08	5283.8	0.08	5283.8	0.02	
NeuAc ₂ Fuc ₄ Hex ₉ HexNAc ₈	5285.8	0.06	5285.8	0.04	5285.8	0.01	
NeuAc ₃ Fuc ₂ Hex ₉ HexNAc ₈	5298.8	0.17	5298.8	0.19	5298.8	0.06	
NeuAc ₁ Fuc ₁ Hex ₁₁ HexNAc ₁₀	5300.8	0.08	5300.8	0.07	5300.8	0.02	
NeuAc ₄ Hex ₉ HexNAc ₈	5311.8	0.07	5311.8	0.24	5311.8	0.06	
NeuAc ₁ Fuc ₅ Hex ₉ HexNAc ₉	5343.8	0.04	5343.8	0.04	5343.8	0.02	
NeuAc ₂ Fuc ₃ Hex ₉ HexNAc ₉	5356.8	0.04	5356.8	0.05	5356.8	0.02	

Composition	MDCK		SIAT1		hCK		Remarks
	Mass (m/z)	%	Mass (m/z)	%	Mass (m/z)	%	
Fuc2 Hex11 HexNAc11	5358.8	0.03	5358.6	0.03	5358.6	0.01	
NeuAc3 Fuc1 Hex9 HexNAc9	5369.8	0.04	5369.8	0.12	5369.8	0.03	
NeuAc1 Hex11 HexNAc11	5371.8	0.04	5371.8	0.06	5371.8	0.02	
NeuAc1 Fuc4 Hex10 HexNAc9	5373.8	0.03	5373.8	0.03	5373.8	0.02	
NeuAc4 Fuc3 Hex8 HexNAc7	5384.8	0.09	5384.8	0.07	5384.8	0.03	
NeuAc2 Fuc2 Hex10 HexNAc9	5386.8	0.07	5386.8	0.04	5386.8	0.03	
NeuAc5 Fuc1 Hex8 HexNAc7	5397.8	0.04	5397.8	0.07	5397.8	0.04	
NeuAc3 Hex10 HexNAc9	5399.8	0.04	5399.8	0.07	5399.8	0.04	
NeuAc2 Fuc6 Hex8 HexNAc8	5429.8	0.03	5429.8	0.04	5429.8	0.02	
NeuAc3 Fuc4 Hex8 HexNAc8	5442.8	0.03	5442.8	0.03	5442.8	0.01	
NeuAc1 Fuc3 Hex10 HexNAc10	5444.8	0.03	5444.8	0.03	5444.8	0.01	
NeuAc1 Fuc7 Hex9 HexNAc8	5446.8	0.02	5446.8	0.02	5446.8	< 0.01	
NeuAc2 Fuc1 Hex10 HexNAc10	5457.8	0.02	5457.8	0.03	5457.8	0.01	
NeuAc2 Fuc5 Hex9 HexNAc8	5459.8	0.02	5459.8	0.02	5459.8	0.01	
NeuAc3 Fuc3 Hex9 HexNAc8	5472.8	0.03	5472.8	0.05	5472.8	0.02	
NeuAc1 Fuc2 Hex11 HexNAc10	5474.8	0.03	5474.8	0.03	5474.8	0.01	
NeuAc4 Fuc1 Hex9 HexNAc8	5487.1	0.06	5487.4	0.34	5487.4	0.05	
NeuAc2 Fuc4 Hex9 HexNAc9	5530.9	0.02	5530.7	0.03	5530.6	0.02	
Fuc3 Hex11 HexNAc11	5532.9	0.02	5532.8	0.01	5532.8	0.01	
NeuAc1 Fuc1 Hex11 HexNAc11	5545.9	0.02	5545.9	0.02	5545.8	< 0.01	
NeuAc1 Fuc5 Hex10 HexNAc9	5547.9	0.02	5547.9	0.01	5547.9	< 0.01	
NeuAc4 Fuc4 Hex8 HexNAc7	5558.9	0.05	5558.9	0.03	5558.8	0.01	
NeuAc2 Fuc3 Hex10 HexNAc9	5560.9	0.04	5560.9	0.03	5560.9	0.01	
NeuAc3 Fuc1 Hex10 HexNAc9	5574.4	0.02	5574.4	0.06	5574.4	0.08	
NeuAc1 Fuc4 Hex10 HexNAc10	5618.9	0.09	5618.9	0.01	5618.8	< 0.01	
NeuAc2 Fuc2 Hex10 HexNAc10	5631.9	0.03	5631.9	0.01	5631.8	< 0.01	
NeuAc2 Fuc6 Hex9 HexNAc8	5633.9	0.02	5633.9	0.01	5633.9	< 0.01	
NeuAc3 Fuc4 Hex9 HexNAc8	5646.9	0.04	5646.9	0.02	5646.9	0.01	
NeuAc1 Fuc3 Hex11 HexNAc10	5648.9	0.03	5648.9	0.02	5648.9	< 0.01	
NeuAc4 Fuc2 Hex9 HexNAc8	5659.9	0.06	5659.9	0.04	5659.9	0.02	
NeuAc2 Fuc1 Hex11 HexNAc10	5661.9	0.04	5661.8	0.02	5661.8	0.01	
NeuAc5 Hex9 HexNAc8	5673.1	0.01	5673.2	0.02	5673.2	< 0.01	
NeuAc1 Fuc2 Hex11 HexNAc11	5720.2	0.02	5720.1	0.02	5720.1	0.01	
NeuAc1 Fuc6 Hex10 HexNAc9	5722.1	0.01	5722.0	0.02	5722.0	0.01	
NeuAc2 Hex11 HexNAc11	5733.1	0.02	5733.0	0.03	5733.0	0.01	
NeuAc2 Fuc4 Hex10 HexNAc9	5735.1	0.02	5735.2	0.01	5735.2	0.01	

Composition	MDCK		SIAT1		hCK		Remarks
	Mass (m/z)	%	Mass (m/z)	%	Mass (m/z)	%	
NeuAc ₃ Fuc ₂ Hex ₁₀ HexNAc ₉	5748.1	0.03	5748.0	0.04	5748.0	0.02	
NeuAc ₁ Fuc ₁ Hex ₁₂ HexNAc ₁₁	5750.1	0.02	5750.2	0.01	5750.2	0.01	
NeuAc ₄ Hex ₁₀ HexNAc ₉	5761.2	0.02	5761.0	0.03	5761.0	0.02	
NeuAc ₃ Fuc ₁ Hex ₁₀ HexNAc ₁₀	5819.1	0.02	5819.0	0.02	5819.0	< 0.01	
NeuAc ₁ Hex ₁₂ HexNAc ₁₂	5821.1	0.02	5821.0	0.02	5821.0	< 0.01	
NeuAc ₁ Fuc ₄ Hex ₁₁ HexNAc ₁₀	5823.1	0.01	5823.0	0.01	5823.0	< 0.01	
NeuAc ₄ Fuc ₃ Hex ₉ HexNAc ₈	5834.0	0.02	5834.0	0.02	5834.0	0.01	
NeuAc ₂ Fuc ₂ Hex ₁₁ HexNAc ₁₀	5836.0	0.02	5836.0	0.02	5836.0	0.01	
Fuc ₁ Hex ₁₃ HexNAc ₁₂	5838.0	0.01	5838.3	0.01	5838.0	< 0.01	
NeuAc ₅ Fuc ₁ Hex ₉ HexNAc ₈	5847.2	0.03	5847.0	0.02	5847.0	< 0.01	
NeuAc ₁ Fuc ₃ Hex ₁₁ HexNAc ₁₁	5894.1	0.02	5894.0	0.01	5894.0	< 0.01	
NeuAc ₂ Fuc ₁ Hex ₁₁ HexNAc ₁₁	5907.1	0.02	5907.0	0.01	5907.0	< 0.01	
NeuAc ₂ Fuc ₅ Hex ₁₀ HexNAc ₉	5909.1	0.02	5909.1	0.01	5909.1	< 0.01	
NeuAc ₃ Fuc ₃ Hex ₁₀ HexNAc ₉	5922.1	0.02	5922.1	0.02	5922.1	0.01	
NeuAc ₁ Fuc ₂ Hex ₁₂ HexNAc ₁₁	5924.1	0.02	5924.1	0.01	5924.1	< 0.01	
NeuAc ₄ Fuc ₁ Hex ₁₀ HexNAc ₉	5935.1	0.03	5935.4	0.10	5935.4	0.04	
NeuAc ₁ Fuc ₆ Hex ₁₀ HexNAc ₁₀	5967.1	0.02	5967.1	0.02	5967.1	< 0.01	
NeuAc ₁ Fuc ₁ Hex ₁₂ HexNAc ₁₂	5995.2	0.01	5995.2	0.01	5995.2	< 0.01	
NeuAc ₁ Fuc ₅ Hex ₁₁ HexNAc ₁₀	5997.2	0.01	5997.2	< 0.01	5997.2	< 0.01	