

Table S2: Full list of glycans analyzed on the FT-ICR mass spectrometer.

Observed m/z	Theoretical m/z	Error in PPM	Glycan Structure
771.2694	771.2822	16.6346	Hex2HexNAc2
933.317	933.3170	0.0000	Hex3HexNAc2
1079.3753	1079.3749	0.3706	Hex3dHex1HexNAc2
1095.3690	1095.3698	0.7303	Hex4HexNAc2
1136.3952	1136.3964	1.0560	Hex3HexNAc3
1257.4225	1257.4226	0.0795	Hex5HexNAc2
1282.4522	1282.4543	1.6375	Hex3dHex1HexNAc3
1298.4487	1298.4492	0.3851	Hex4HexNAc3
1339.4736	1339.4758	1.6424	Hex3HexNAc4
1419.4753	1419.4754	0.0704	Hex6HexNAc2
1444.5071	1444.5071	0.0000	Hex4dHex1HexNAc3
1460.5029	1460.502	0.6162	Hex5HexNAc3
1485.5326	1485.5337	0.7405	Hex3dHex1HexNAc4
1501.5309	1501.5286	1.5318	Hex4HexNAc4
1542.5564	1542.5551	0.8428	Hex3HexNAc5
1581.5279	1581.5282	7.4882	Hex7HexNAc2
1606.5714	1606.5599	0.1897	Hex5dHex1HexNAc3
1611.6212	1611.5266	7.1582	Hex4HexNAc3NeuAc1+ 2Na
1622.5582	1622.5548	4.4055	Hex6HexNAc3
1647.5873	1647.5865	2.0955	Hex4dHex1HexNAc4
1663.5835	1663.5814	0.4856	Hex5HexNAc4
1688.6124	1688.613	0.3553	Hex3dHex1HexNAc5
1704.6180	1704.6079	5.9251	Hex4HexNAc5
1743.5816	1743.581	0.3441	Hex8HexNAc2
1809.6404	1809.6393	0.6079	Hex5dHex1HexNAc4
1825.6276	1825.6342	3.6152	Hex6HexNAc4
1850.6643	1850.6659	0.8646	Hex4dHex1HexNAc5
1866.6591	1866.6608	0.9107	Hex5HexNAc5
1905.6347	1905.6338	0.4723	Hex9HexNAc2
1911.5935	1911.5859	3.9758	Hex5dHex1HexNAc4 + 2Na + SO4
1954.6746	1954.6768	1.1255	Hex5HexNAc4NeuAc1
1955.6802	1955.6972	8.6926	Hex5dHex2HexNAc4
1976.6593	1976.6666	3.6931	Hex5HexNAc4NeuAc1 + 2Na
1992.6459	1992.6537	3.9144	Hex5HexNAc4NeuGc1 + 2Na
2010.6535	2010.6224	15.4678	Hex7dHex1HexNAc3 + SO4
2012.7208	2012.7187	1.0434	Hex5dHex1HexNAc5
2028.7122	2028.7136	0.6901	Hex6HexNAc5
2057.6575	2057.6439	6.6095	Hex5dHex2HexNAc4 + 2Na + SO4
2067.6925	2067.6837	4.2560	Hex10HexNAc2
2069.7194	2069.7402	10.0491	Hex5HexNAc6
2100.7356	2100.7347	0.4284	Hex5dHex1HexNAc4NeuAc1
2101.7371	2101.7551	8.5643	Hex5dHex3HexNAc4
2122.7149	2116.7296	4.5225	Hex5dHex1HexNAc4NeuAc1 + 2Na
2157.7729	2157.7562	7.7400	Hex5HexNAc5NeuAc1

2158.7790	2158.7766	1.1117	Hex5dHex2HexNAc5
2163.7230	2163.7432	3.6511	Hex4dHex1HexNAc5NeuAc1 + 2Na
2174.7784	2174.7715	3.1727	Hex6dHex1HexNAc5
2179.7457	2179.7460	0.1230	Hex5HexNAc5NeuAc1 + 2Na
2215.7670	2215.798	16.8793	Hex5dHex1HexNAc6
2245.7753	2245.7722	1.3804	Hex5HexNAc4NeuAc2
2246.7814	2246.7926	4.9844	Hex5dHex2HexNAc4NeuAc1
2267.7479	2267.7620	6.2176	Hex5HexNAc4NeuAc2 + 2Na
2268.7737	2268.7824	3.8206	Hex5dHex2HexNAc4NeuAc1 + 2Na
2276.7054	2276.7180	5.5343	Hex6dHex1HexNAc5 + 1SO4 + 2Na
2289.7335	2289.7326	0.3931	Hex5HexNAc4NeuAc2 + 3Na
2303.8154	2303.8141	0.5643	Hex5dHex1HexNAc5NeuAc1
2304.8300	2304.8345	1.9524	Hex5dHex3HexNAc5
2319.8138	2319.8090	2.0691	Hex6HexNAc5NeuAc1
2320.8276	2320.8294	0.7756	Hex6dHex2HexNAc5
2325.7902	2333.6647	5.8904	Hex5dHex1HexNAc5NeuAc1 + 2Na
2333.6991	2333.6647	14.7408	Hex5HexNAc5NeuGc1 + 2SO4
2341.7926	2341.7988	2.6475	Hex6HexNAc5NeuAc1 + 2Na
2377.8445	2377.8509	2.6915	Hex6dHex1HexNAc6
2391.8300	2391.8301	0.0418	Hex5dHex1HexNAc4NeuAc2
2393.8436	2393.8458	0.9190	Hex7HexNAc6
2413.8292	2413.8199	3.8528	Hex5dHex1HexNAc4NeuAc2 + 2Na
2421.8446	2421.7984	19.0767	Hex9HexNAc3NeuAc1 + 2Na
2435.8095	2465.8669	0.0821	Hex5dHex1HexNAc4NeuAc2 + 3Na
2465.8649	2465.8669	0.8111	Hex6dHex1HexNAc5NeuAc1
2487.8475	2487.8567	3.6980	Hex6dHex1HexNAc5NeuAc1 + 2Na
2539.9045	2539.9037	0.3150	Hex7dHex1HexNAc6
2632.9040	2632.8942	3.7343	Hex6HexNAc5NeuAc2 + 2Na
2633.9218	2633.9146	2.7336	Hex6dHex2HexNAc5NeuAc1 + 2Na
2653.9568	2653.9718	5.6519	Hex5dHex4HexNAc6
2684.9366	2684.9412	1.7133	Hex7HexNAc6NeuAc1
2685.9551	2685.9616	2.4200	Hex7dHex2HexNAc6
2706.9144	2706.9310	6.1324	Hex7HexNAc6NeuAc1 + 2Na
2742.9912	2742.9831	2.9530	Hex7dHex1HexNAc7
2758.9686	2758.978	3.4071	Hex8HexNAc7
2779.9528	2779.9725	7.0864	Hex6dHex3HexNAc5NeuAc1 + 2Na
2830.9227	2830.9991	26.9869	Hex7dHex1HexNAc6NeuAc1
2832.0145	2832.0195	1.7655	Hex7dHex3HexNAc6
2853.0016	2852.9889	4.4515	Hex7dHex1HexNAc6NeuAc1 + 2Na
2905.0552	2905.0359	6.6436	Hex8dHex1HexNAc7
3124.1081	3124.1102	0.6722	Hex9HexNAc8
3218.1263	3218.1211	1.6258	Hex8dHex1HexNAc7NeuAc1 + 2Na
3270.1746	3270.1681	1.9877	Hex9dHex1HexNAc8
3635.3285	3635.3003	7.7573	Hex10dHex1HexNAc9