

S1 Table. Retention time and peak area ratio of each N-glycan detected in positive and negative ion modes

Composition ^{1,2}	Observed <i>m/z</i>	Polarity	Charge state	Young 1		Young 2		Young 3		Young 4		Young 5		Aged 1		Aged 2		Aged 3		Aged 4		Aged 5		SSC 1		SSC 2		SSC 3		SSC 4		SSC 5		SSC 6	
				RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio	RT	Peak Area Ratio
Hex5 HexNAc2	1237.47	Positive	1	17.31	0.202	17.37	0.184	17.47	0.080	17.44	0.165	17.48	0.118	17.40	0.049	17.44	0.290	17.29	0.308	17.40	0.126	17.48	0.245	17.29	0.301	17.31	0.202	17.31	0.175	17.36	0.118	17.24	0.029	17.43	0.131
Hex5 HexNAc2	1399.53	Positive	1	14.40	0.069	14.65	0.093	14.86	0.055	14.70	0.057	14.88	0.050	14.63	0.030	14.70	0.097	14.58	0.060	14.59	0.100	14.84	0.043	14.63	0.165	14.82	0.067	14.69	0.060	14.61	0.044	14.61	0.118	14.78	0.076
Hex5 HexNAc2 (NH ₄) ⁺	870.35	Positive	2	13.72	0.632	13.89	0.475	14.08	0.432	13.91	0.309	13.88	0.311	13.96	0.350	13.89	0.264	13.79	0.523	13.80	0.417	13.86	0.421	13.82	0.340	13.88	0.289	13.95	0.378	13.86	0.196	13.85	0.160	13.88	0.166
Hex5 HexNAc2 (NH ₄) ⁺	951.85	Positive	2	13.85	1.451	14.15	1.096	14.22	1.099	14.18	1.299	14.01	1.508	14.09	0.581	14.16	0.928	13.92	1.533	14.04	2.022	14.13	2.468	14.04	0.773	13.99	1.271	14.07	1.452	13.98	1.003	14.08	1.037	14.13	0.855
Hex5 HexNAc5	761.80	Positive	2	10.11	0.036	10.12	0.053	10.11	0.046	10.25	0.059	10.23	0.022	10.40	0.081	10.24	0.095	10.13	1.190	10.12	0.080	10.13	0.491	10.38	0.087	10.13	0.325	10.27	0.255	10.10	0.092	10.27	0.688	10.27	0.122
Hex4 HexNAc5	842.82	Positive	2	11.34	0.140	11.38	0.129	11.35	0.117	11.49	0.118	11.48	0.084	11.66	0.112	11.50	0.130	11.25	0.187	11.36	0.145	11.45	0.415	11.51	0.171	11.43	0.385	11.39	0.279	11.55	0.178	11.43	0.574	11.57	0.223
Hex5 HexNAc3 NeuNAc1	866.32	Positive	2	14.23	0.223	14.52	0.278	14.66	0.439	14.31	0.218	14.15	0.262	14.09	0.071	14.28	0.395	14.19	0.257	14.17	0.366	14.24	0.255	14.04	0.075	14.37	0.494	14.2	0.270	13.98	0.276	14.08	0.200	14.25	0.213
Hex4 HexNAc4 NeuNAc1	886.84	Positive	2	15.24	0.488	15.37	0.560	15.56	0.647	15.36	0.680	15.17	0.325	15.11	0.360	15.34	0.789	15.19	1.441	15.26	0.955	15.24	1.254	15.01	0.464	15.24	1.099	15.03	0.693	14.95	0.820	14.98	0.947	15.19	0.804
Hex5 HexNAc4 NeuNAc1(P)	967.86	Positive	2	15.84	13.968	16.16	15.567	16.31	14.680	15.95	9.241	15.80	4.616	15.63	5.644	15.90	7.103	16.00	15.533	15.99	13.006	15.90	7.931	15.71	4.126	15.87	17.257	15.56	6.940	14.69	5.340	15.55	7.877	15.82	6.137
Hex5 HexNAc4 NeuNAc2(1)(P)	1113.41(1)	Positive	2	16.34	35.458	16.59	31.543	16.80	35.418	16.11	36.634	15.87	48.764	15.87	53.298	16.06	37.844	16.25	32.127	16.24	29.036	16.06	27.798	15.56	43.276	16.2	37.684	15.72	49.037	15.69	48.109	15.71	44.266	15.82	41.126
Hex5 HexNAc4 NeuNAc2(2)(P)	1113.41(2)	Positive	2	20.05	7.894	19.81	7.736	20.02	8.165	19.10	9.201	19.26	8.364	19.16	10.496	19.31	9.382	20.18	6.418	19.89	8.085	19.45	11.746	18.97	9.789	19.87	7.334	19.17	9.192	19.39	11.351	19.41	6.929	18.95	7.646
Hex4 HexNAc5 NeuNAc1	988.37	Positive	2	12.03	0.324	12.21	0.357	12.47	0.531	12.05	0.485	11.88	0.270	12.10	0.708	12.22	0.704	11.96	0.603	12.07	0.432	12.03	1.419	12.11	1.123	12.29	1.267	12.13	1.397	11.98	0.790	12.17	1.877	12.02	1.176
Hex5 HexNAc5 NeuNAc1	1069.40	Positive	2	12.86	1.215	13.19	1.310	13.34	1.366	13.04	1.355	12.88	0.952	12.97	0.715	13.21	2.561	12.96	1.496	12.92	1.426	12.88	1.718	12.98	1.920	13.14	1.635	13.13	1.699	12.85	1.363	13.02	1.124	13	1.502
Hex5 HexNAc5 NeuNAc1(1)	1150.44(1)	Positive	2	16.59	0.144	16.67	0.130	16.62	0.153	16.50	0.358	16.47	0.375	16.30	0.279	16.53	0.894	16.48	0.117	16.72	0.185	16.55	0.432	16.22	0.505	16.43	0.091	16.17	0.626	16.19	0.368	16.1	0.205	16.33	0.445
Hex5 HexNAc5 NeuNAc1(2)	1150.44(2)	Positive	2	17.96	0.093	18.16	0.314	18.14	0.146	17.83	0.240	17.94	0.179	17.77	0.120	17.99	0.344	18.10	0.251	18.11	0.305	18.07	0.216	17.68	0.393	17.86	0.278	17.56	0.444	17.81	0.461	17.62	0.326	17.66	0.520
Hex5 HexNAc5 NeuNAc2	1295.99	Positive	2	20.34	0.230	20.07	0.524	20.21	0.301	19.48	0.594	19.62	0.513	19.54	0.467	19.70	0.858	20.58	0.622	20.19	0.661	19.72	0.704	19.46	1.104	20.23	0.690	19.52	0.402	19.56	0.378	22.33	0.366	19.29	0.902
Hex5 HexNAc5 NeuNAc3(1)(P)	961.35(1)	Positive	3	19.85	0.658	19.66	0.928	19.84	0.627	18.78	2.096	18.82	1.794	18.81	2.111	18.92	2.384	19.92	1.219	19.71	2.383	19.15	3.561	18.47	1.697	19.7	0.869	18.73	2.280	18.83	3.055	18.98	2.256	18.44	2.105
Hex5 HexNAc5 NeuNAc3(2)(P)	961.35(2)	Positive	3	20.78	2.660	20.34	4.289	20.80	2.624	19.48	3.456	19.62	4.265	19.71	4.284	19.87	4.971	21.07	2.788	20.48	7.599	19.90	6.627	19.3	3.625	19.7	0.869	19.68	3.757	19.65	7.151	20.03	2.465	19.29	4.350
dHex1 Hex3 HexNAc4	1465.59	Positive	1	16.19	0.056	16.34	0.150	16.31	0.167	16.50	0.250	16.47	0.120	16.30	0.078	16.44	0.525	16.18	0.146	16.39	0.072	16.46	0.465	16.31	0.526	16.05	0.321	16.25	0.226	16.3	0.398	16.1	0.445	16.42	1.177
dHex1 Hex4 HexNAc4	814.32	Positive	2	17.09	2.311	17.17	2.903	17.18	2.187	17.25	3.251	17.25	1.793	17.08	1.557	17.14	2.676	17.11	3.669	17.21	5.664	17.19	4.465	17.09	0.743	16.89	1.846	16.93	1.105	17.15	1.927	16.84	2.268	17.06	1.694
dHex1 Hex5 HexNAc4	895.34	Positive	2	17.88	1.150	18.01	1.788	18.11	2.120	18.00	1.595	18.09	1.522	17.96	0.797	17.91	0.643	17.83	0.521	18.03	1.308	18.07	0.839	17.85	0.287	17.59	0.439	17.64	0.197	18.07	0.334	17.82	0.606	17.91	0.724
dHex1 Hex3 HexNAc5	834.33	Positive	2	12.88	0.287	13.05	0.258	13.03	0.215	13.05	0.399	13.19	0.215	13.27	0.372	13.21	0.329	13.82	1.756	13.07	0.404	13.14	1.660	13.25	0.283	13.01	0.085	13.14	0.413	13.15	1.124	13.28	1.008		
dHex1 Hex4 HexNAc5	915.86	Positive	2	13.72	1.461	13.89	1.688	13.92	0.986	14.18	1.138	14.15	0.987	14.09	0.630	14.16	1.872	13.79	2.085	13.92	2.503	13.99	3.196	14.04	1.354	13.88	1.744	13.95	1.178	13.98	0.841	13.97	2.690	14.13	1.184
dHex1 Hex5 HexNAc5	996.88	Positive	2	14.23	1.477	14.41	1.693	14.50	1.016	14.58	0.757	14.56	0.842	14.50	0.626	14.57	1.506	14.32	0.835	14.31	1.289	14.50	1.655	14.42	0.602	14.37	1.112	14.45	0.883	14.36	0.427	14.35	1.077	14.65	0.583
dHex2 Hex5 HexNAc5	1150.95	Positive	2	14.72	0.930	15.01	5.964	15.16	3.676	14.95	2.563	14.80	1.733	14.75	0.209	14.96	1.649	14.81	6.337	14.72	4.537	14.88	4.855	14.63	1.382	14.73	4.064	14.69	2.884	14.61	1.009	14.6	2.698	14.76	1.490
dHex1 Hex5 HexNAc4 NeuNAc1(P)	1040.89	Positive	2	17.88	6.452	18.08	6.798	17.98	8.040	17.67	6.134	17.85	4.626	17.69	1.217	17.64	2.252	18.00	3.960	17.95	4.692	17.82	3.537	17.53	5.314	17.68	4.082	17.4	1.489	17.81	1.962	17.46	3.121	17.51	4.321
dHex1 Hex5 HexNAc4 NeuNAc2(P)	1186.44	Positive	2	18.23	6.434	18.35	6.249	18.41	8.780	17.78	10.527	17.77	9.002	17.61	10.563	17.74	9.038	18.37	4.450	18.20	7.018	17.90	6.110	17.38	7.394	18.11	6.130	17.48	5.069	17.65	5.808	17.54	6.316	17.43	8.073
dHex1 Hex5 HexNAc5 NeuNAc1	1061.41	Positive	2	13.97	0.559	14.26	0.393	14.40	0.283	14.45	0.627	14.15	0.300	14.09	0.484	14.28	1.187	14.14	1.046	14.17	0.717	14.13	2.072	13.93	1.926	14.25	1.349	14.2	1.239	13.68	1.150	14.68	1.617	14.13	1.290
dHex1 Hex5 HexNAc5 NeuNAc2	1142.43	Positive	2	14.72	0.632	15.01	5.307	15.29	3.756	14.95	4.240	14.80	4.038	14.75	1.143	14.83	5.024	14.81	8.795	14.84	3.455	14.88	2.974	14.63	6.837	14.85	4.011	14.79	3.734	14.61	3.252	14.6	3.541	14.76	5.667
dHex1 Hex5 HexNAc5 NeuNAc2	1287.98	Positive	2	15.60	0.824																														