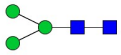
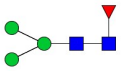
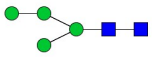
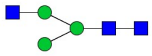
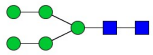
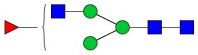
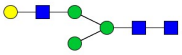
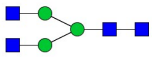
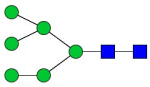
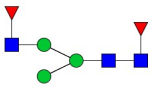
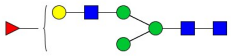
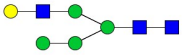
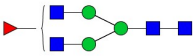
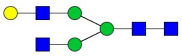
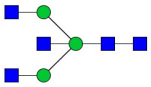
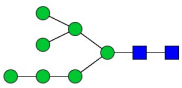
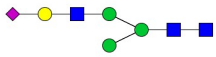
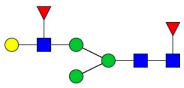
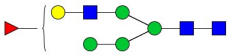
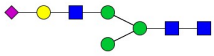
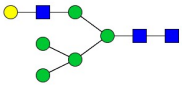
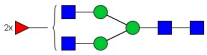
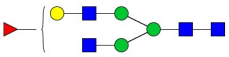
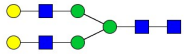
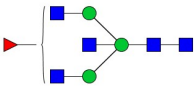
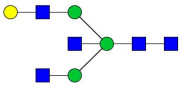
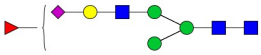
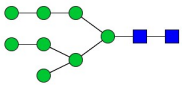
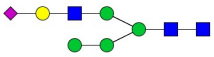
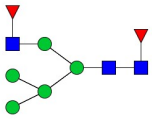
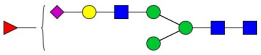
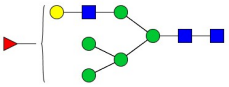
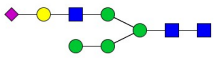
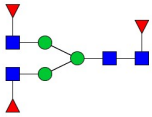
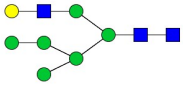
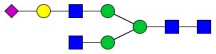
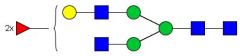
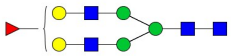
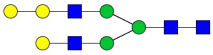
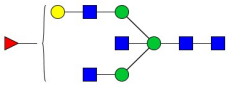
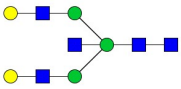
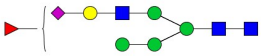
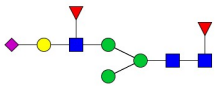
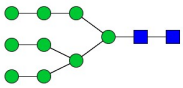
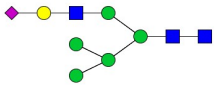
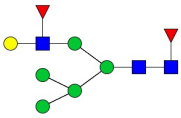
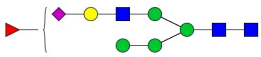
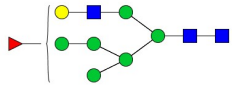
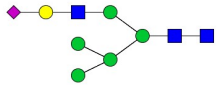
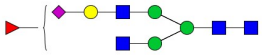
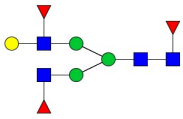
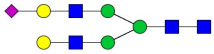
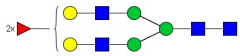
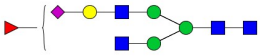
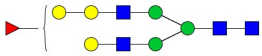
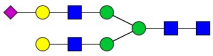
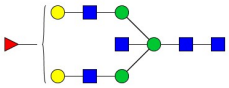
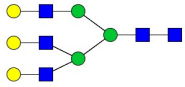
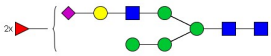
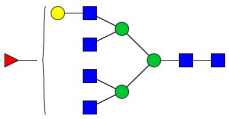
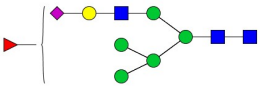
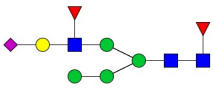
Supplemental Table 6

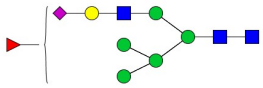
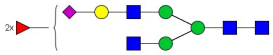
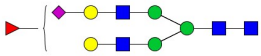
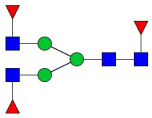
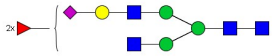
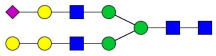
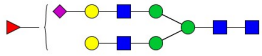
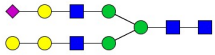
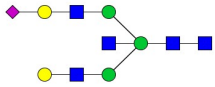
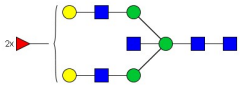
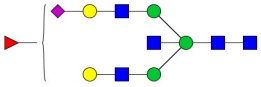
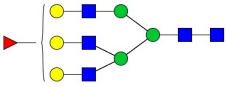
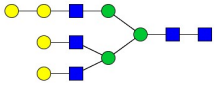
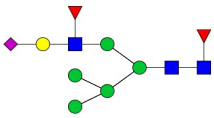
Peak list of N-glycans detected from Mx1-Cre Calrdel52/+ vehicle and Mx1-Cr Calrdel52/+ 2-DG spleens. Mass error calculations: ((ABS(Theoretical m/z - Observed m/z)/Theoretical m/z) *1,000,000).

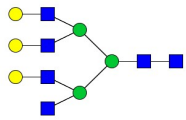
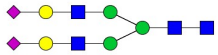
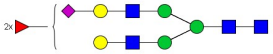
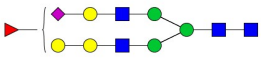
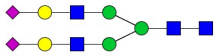
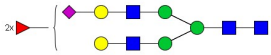
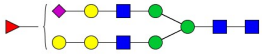
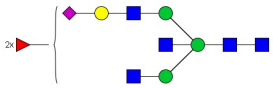
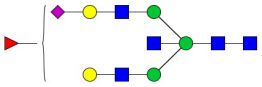
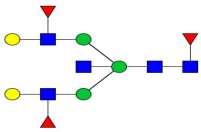
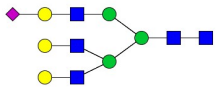
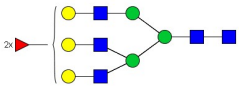
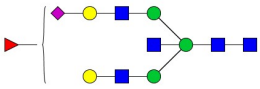
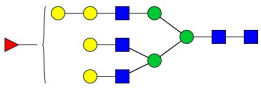
Observed Mass	Theoretical Mass	Error (ppm)	Composition	Putative Structure
933.3220	933.3170	5.3572	Hex3HexNAc2+ 1Na	
1079.3779	1079.3749	2.7794	Hex3dHex1HexNAc2+ 1Na	
1095.3729	1095.3698	2.8301	Hex4HexNAc2+ 1Na	
1136.3994	1136.3964	2.6399	Hex3HexNAc3+ 1Na	
1257.4298	1257.4226	5.7260	Hex5HexNAc2+ 1Na	
1282.4596	1282.4543	4.1327	Hex3dHex1HexNAc3+ 1Na	
1298.4546	1298.4492	4.1588	Hex4HexNAc3+ 1Na	
1339.4844	1339.4757	6.4951	Hex3HexNAc4+ 1Na	
1419.4788	1419.4755	2.3248	Hex6HexNAc2+ 1Na	
1428.5212	1428.5122	6.3003	Hex3dHex2HexNAc3+ 1Na	
1444.5166	1444.5071	6.5766	Hex4dHex1HexNAc3+ 1Na	
1460.5086	1460.5020	4.5190	Hex5HexNAc3+ 1Na	
1485.5421	1485.5336	5.7218	Hex3dHex1HexNAc4+ 1Na	
1501.5378	1501.5286	6.1271	Hex4HexNAc4+ 1Na	
1542.5621	1542.5551	4.5379	Hex3HexNAc5+ 1Na	
1581.5283	1581.5332	3.0983	Hex7HexNAc2+ 1Na	

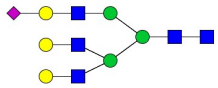
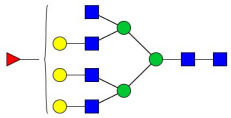
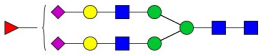
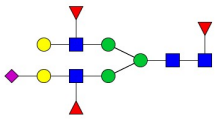
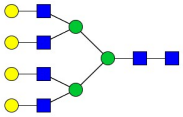
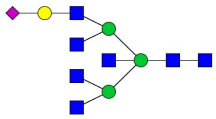
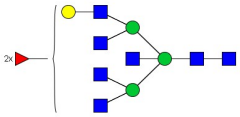
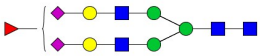
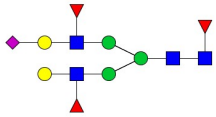
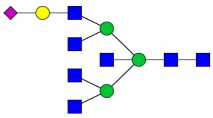
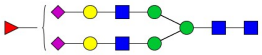
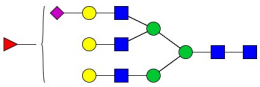
1589.5560	1589.5446	7.1719	Hex4HexNAc3NeuAc+ 1Na	
1590.5577	1590.5650	4.5896	Hex4dHex2HexNAc3+ 1Na	
1606.5672	1606.5599	4.5439	Hex5dHex1HexNAc3+ 1Na	
1611.5311	1611.5266	2.7924	Hex4HexNAc3NeuAc1+ 2Na	
1622.5593	1622.5548	2.7734	Hex6HexNAc3+ 1Na	
1631.5977	1631.5915	3.8000	Hex3dHex2HexNAc4+ 1Na	
1647.5918	1647.5865	3.2168	Hex4dHex1HexNAc4+ 1Na	
1663.5930	1663.5814	6.9729	Hex5HexNAc4+ 1Na	
1688.6252	1688.613	7.2249	Hex3dHex1HexNAc5+ 1Na	
1704.6157	1704.608	4.5172	Hex4HexNAc5+ 1Na	
1735.6111	1735.6025	4.9723	Hex4dHex1HexNAc3NeuAc1+ 1Na	
1743.5874	1743.5811	3.6133	Hex8HexNAc2+ 1Na	
1751.6088	1751.5974	6.5083	Hex5HexNAc3NeuAc1+ 1Na	
1752.6075	1752.6178	5.8769	Hex5dHex2HexNAc3+ 1Na	
1757.5920	1757.5845	4.2672	Hex4dHex1HexNAc3NeuAc1+ 2Na	
1768.6202	1768.6127	4.2406	Hex6dHex1HexNAc3+ 1Na	

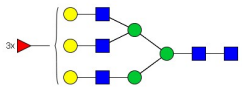
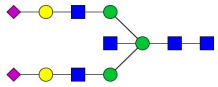
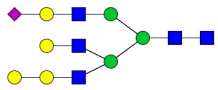
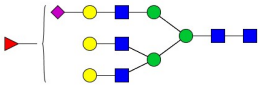
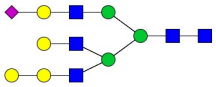
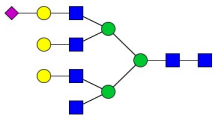
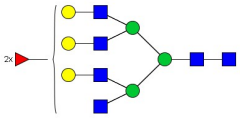
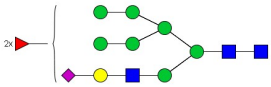
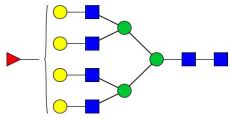
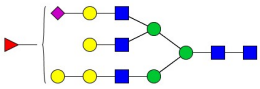
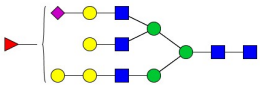
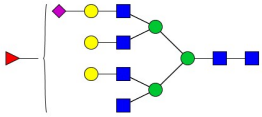
1773.5881	1773.5794	4.9053	Hex5HexNAc3NeuAc1+ 2Na	
1777.6543	1777.6494	2.7564	Hex3dHex3HexNAc4+ 1Na	
1784.6185	1784.6077	6.0518	Hex7HecNAc3+ 1Na	
1792.6405	1792.624	9.2044	Hex4HexNAc4NeuAc1+ 1Na	
1793.6536	1793.6444	5.1292	Hex4dHex2HexNAc4+ 1Na	
1809.6222	1809.6393	9.4494	Hex5dHex1HexNAc4+ 1Na	
1825.6474	1825.6342	7.2304	Hex6HexNAc4+ 1Na	
1850.6736	1850.6659	4.1607	Hex4dHex1HexNAc5+ 1Na	
1866.6673	1866.6608	3.4822	Hex5HexNAc5+ 1Na	
1897.6659	1897.6553	5.5858	Hex5dHex1HexNAc3NeuAc1+ 1Na	
1903.6339	1903.6424	4.4651	Hex4dHex2HexNAc3NeuAc1+ 2Na	
1905.6433	1905.6339	4.9327	Hex9HexNAc2+ 1Na	
1913.6639	1913.6503	7.1068	Hex6HexNAc3NeuAc1+ 1Na	
1914.6784	1914.6706	4.0738	Hex6dHex2HexNAc3+ 1Na	
1919.6534	1919.6373	8.3870	Hex5dHex1HexNAc3NeuAc1+ 2Na	

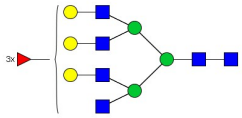
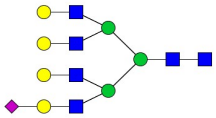
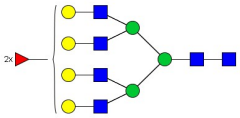
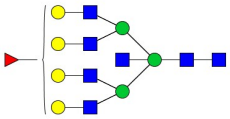
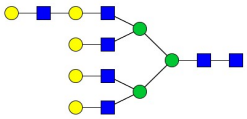
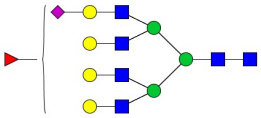
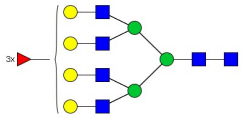
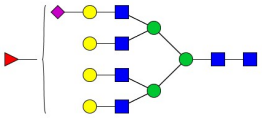
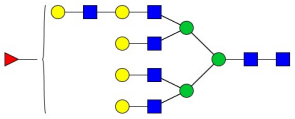
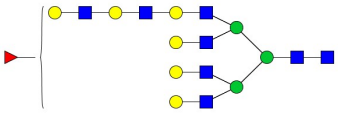
1930.6653	1930.6656	0.1554	Hex7dHex1HexNAc3+ 1Na	
1935.6432	1935.6322	5.6829	Hex6HexNAc3NeuAc1+ 2Na	
1938.6942	1938.6819	6.3445	Hex4dHex1HexNAc4NeuAc1+ 1Na	
1939.7026	1939.7023	0.1547	Hex4dHex3HexNAc4+ 1Na	
1954.6862	1954.6768	4.8090	Hex5HexNAc4NeuAc1+ 1Na	
1955.7029	1955.6972	2.9146	Hex5dHex2HexNAc4+ 1Na	
1960.6669	1960.6638	1.5811	Hex4dHex1HexNAc4NeuAc1+ 2Na	
1971.6971	1971.6921	2.5359	Hex6dHex1HexNAc4+ 1Na	
1976.6720	1976.6588	6.6779	Hex5HexNAc4NeuAc1+ 2Na	
2012.7252	2012.7187	3.2295	Hex5dHex1HexNAc5+ 1Na	
2028.7191	2028.7136	2.7111	Hex6HexNAc5+ 1Na	
2043.7260	2043.7132	6.2631	Hex5dHex2HexNAc3NeuAc1+ 1Na	
2053.7135	2053.7452	15.4352	Hex4dHex1HexNAc6+ 1Na	
2059.7191	2059.7082	5.2920	Hex6dHex1HexNAc3NeuAc1+ 1Na	
2065.7113	2065.6952	7.7940	Hex5dHex2HexNAc3NeuAc1+ 1Na	

2081.7099	2081.6901	9.5115	Hex6dHex1HexNAc3NeuAc1+ 2Na	
2084.7514	2084.7398	5.5642	Hex4dHex2HexNAc4NeuAc1+ 1Na	
2100.7504	2100.7347	7.4736	Hex5dHex1HexNAc4NeuAc1+ 1Na	
2101.7485	2101.7551	3.1402	Hex3dHex3HexNAc4+ 1Na	
2106.7356	2106.7217	6.5979	Hex4dHex2HexNAc4NeuAc1+ 2Na	
2116.7346	2116.7296	2.3621	Hex6HexNAc4NeuAc1+ 1Na	
2122.7228	2122.7167	2.8737	Hex5dHex1HexNAc4NeuAc1+ 2Na	
2138.7245	2138.7116	6.0317	Hex6HexNAc4NeuAc1+ 2Na	
2157.7685	2157.7562	5.7004	Hex5HexNAc5NeuAc1+ 1Na	
2158.7613	2158.7766	7.0873	Hex5dHex2HexNAc5+ 1Na	
2163.743	2163.7432	0.0924	Hex5dHex1HexNAc5NeuAc1+ 2Na	
2174.7846	2174.7715	6.0236	Hex6dHex1HexNAc5+ 1Na	
2190.7733	2190.7664	3.1496	Hex7HexNAc5+ 1Na	
2227.7778	2227.748	13.3767	Hex6dHex2HexNAc3NeuAc1+ 2Na	

2231.7914	2231.793	0.7169	Hex6HexNAc6+ 1Na	
2245.7838	2245.7722	5.1653	Hex5HexNAc4NeuAc2+ 1Na	
2246.7946	2246.7926	0.8902	Hex5dHex2HexNAc4NeuAc1+ 1Na	
2262.7923	2262.7875	2.1213	Hex6dHex1HexNAc4NeuAc+ 1Na	
2267.7646	2267.7542	4.5860	Hex5HexNAc4NeuAc2+ 2Na	
2268.7746	2268.7746	0.0000	Hex5dHex2HexNAc4NeuAc1+ 2Na	
2284.7796	2284.7695	4.4206	Hex6dHex1HexNAc4NeuAc+ 2Na	
2287.7975	2287.8192	9.4850	Hex4dHex2HexNAc5NeuAc1+ 1Na	
2303.7992	2303.8141	6.4675	Hex5dHex1HexNAc5NeuAc1+ 1Na	
2304.8246	2304.8345	4.2953	Hex5dHex3HexNAc5+ 1Na	
2319.82	2319.809	4.7418	Hex6HexNAc5NeuAc1+ 1Na	
2320.8177	2320.8294	5.0413	Hex6dHex2HexNAc5+ 1Na	
2325.8012	2325.7961	2.1928	Hex5dHex1HexNAc5NeuAc1+ 2Na	
2336.8283	2336.8243	1.7117	Hex7dHex1HexNAc5+ 1Na	

2341.7993	2341.791	3.5443	Hex6HexNAc5NeuAc1+ 2Na	
2377.8568	2377.8509	2.4812	Hex6dHex1HexNAc6+ 1Na	
2391.8439	2391.8301	5.7696	Hex5dHex1HexNAc4NeuAc2+ 1Na	
2392.8367	2392.8505	5.7672	Hex5dHex3HexNAc4NeuAc1+ 1Na	
2393.8539	2393.8458	3.3837	Hex7HexNAc6+ 1Na	
2401.8267	2401.8621	14.7386	Hex4HexNAc7NeuAc1+ 1Na	
2402.8236	2402.8825	24.5122	Hex4dHex2HexNAc7+ 1Na	
2413.8297	2413.8121	7.2914	Hex5dHex1HexNAc4NeuAc2+ 2Na	
2414.8316	2414.8325	0.3727	Hex5dHex3HexNAc4NeuAc1+ 2Na	
2423.8315	2423.8441	5.1984	Hex4HexNAc7NeuAc1+ 1Na	
2435.8105	2435.794	6.7740	Hex5dHex1HexNAc4NeuAc2+ 3Na	
2465.882	2465.8669	6.1236	Hex5dHex1HexNAc5NeuAc1+ 3Na	

2466.8809	2466.8873	2.5944	Hex6dHex3HexNAc5+ 1Na	
2470.8063	2470.8336	11.0489	Hex5HexNAc5NeuAc2+ 2Na	
2481.8756	2481.8616	5.6409	Hex7HexNAc5NeuAc1+ 1Na	
2487.8517	2487.8489	1.1255	Hex6dHex1HexNAc5NeuAc1+ 2Na	
2503.8625	2503.8438	7.4685	Hex7HexNAc5NeuAc1+ 2NA	
2522.9013	2522.8884	5.1132	Hex6HexNAc6NeuAc1+ 1Na	
2523.898	2523.9088	4.2791	Hex6dHex2HexNAc6+ 1Na	
2529.8741	2529.8717	0.9487	Hex8dHex2HexNAc3NeuAc1+ 1Na	
2539.9123	2539.9037	3.3860	Hex7dHex1HexNAc6+ 1Na	
2627.9249	2627.9197	1.9788	Hex7dHex1HexNAc5NeuAc1+ 1Na	
2649.9069	2649.9017	1.9623	Hex7dHex1HexNAc5NeuAc1+ 2Na	
2668.9217	2668.9463	9.2171	Hex6dHex1HexNAc6NeuAc1+ 1Na	

2669.9494	2669.9667	6.4795	Hex6dHex3HexNAc6+ 1Na	
2684.9565	2684.9412	5.6984	Hex7HexNAc6NeuAc1+ 1Na	
2685.9501	2685.9616	4.2815	Hex7dHex2HexNAc6+ 1Na	
2742.9926	2742.9831	3.4634	Hex7dHex1HexNAc7+ 1Na	
2758.9896	2758.978	4.2045	Hex8HexNAc7+ 1Na	
2830.9986	2830.9991	0.1766	Hex7dHex1HexNAc6NeuAc1+ 1Na	
2832.0037	2832.0195	5.5791	Hex7dHex3HexNAc6+ 1Na	
2852.9783	2852.9811	0.9814	Hex7dHex1HexNAc6NeuAc1+ 2Na	
2905.0468	2905.0359	3.7521	Hex8dHex1HexNAc7+ 1Na	
3270.1944	3270.1681	8.0424	Hex9dHex1HexNAc8+ 1Na