

Supplemental material

Table S-I. Column 3 and 4; Measured K⁺ and Na⁺ ion intensities at specified time and temperature. Column 5 and 6; Sodium and potassium pressures calculated using Eq. 1.

(T / K)	t / min	$(I_{\text{K}}^+ / \text{s}^{-1})$	$(I_{\text{Na}}^+ / \text{s}^{-1})$	$(p_{\text{K(g)}} / \text{Pa})$	$(p_{\text{Na(g)}} / \text{Pa})$
1163	0	125000	8000	0.06570	0.00755
1163	14	95000	4200	0.04994	0.00397
1163	21	84000	3300	0.04415	0.00312
1163	37	70000	2500	0.03679	0.00236
1163	60	58000	1500	0.03049	0.00142
1163	625	9500	312	0.00499	0.00029
1163	1260	4800	250	0.00252	0.00024
1263	1283	57000	2700	0.03254	0.00277
1263	1302	46000	2770	0.02626	0.00284
1263	1364	39000	2850	0.02226	0.00292
1263	1403	31000	2800	0.01770	0.00287
1263	1594	21000	2800	0.01199	0.00287
1263	2042	15000	2850	0.00856	0.00292
1263	2715	14000	2900	0.00799	0.00297

Table S-II. Raw data for a selected measurement of the KNN20/80 sample.

$T/^{\circ}\text{C}$	T/K	$10^3/(T/\text{K})$	I_{Na^+}	I_{K^+}	$\ln(I_{\text{K}^+} / I_{\text{Na}^+})$
1020	1293	0.773	3130	4800	0.428
1010	1283	0.779	2648	3650	0.321
1000	1273	0.786	2021	2655	0.273
990	1263	0.792	1486	2003	0.299
980	1253	0.798	1177	1555	0.279
970	1243	0.805	835	1100	0.276
960	1233	0.811	630	790	0.226
950	1223	0.818	510	645	0.235
940	1213	0.824	373	464	0.218
930	1203	0.831	287	364	0.238
920	1193	0.838	198	242	0.201
925	1198	0.835	217	270	0.219
935	1208	0.828	277	332	0.181
945	1218	0.821	353	435	0.209
955	1228	0.814	484	611	0.233
965	1238	0.808	694	881	0.239
975	1248	0.801	919	1225	0.287
985	1258	0.795	1206	1625	0.298
995	1268	0.789	1636	2175	0.285
1005	1278	0.782	2128	2950	0.327
1015	1288	0.776	2846	3986	0.337
1025	1298	0.770	3580	5147	0.363
1035	1308	0.765	4659	6484	0.331