

Table S1. Potassium Isotopic Fractionation of Ion Exchange Column

	Volume (mL)	Percentage of K	$\delta^{41}K_{SRM3141a}$	95% C.I. ^a	n ^b
Column 1	108	100%	-0.02	± 0.04	16
Column 2 frac. # 1	18	2%	1.17	± 0.09	6
Column 2 frac. # 2	18	13%	0.15	± 0.03	14
Column 2 frac. # 3	18	33%	-0.22	± 0.04	14
Column 2 frac. # 4	18	36%	-0.13	± 0.03	14
Column 2 frac. # 5	18	15%	0.15	± 0.03	14
Column 2 frac. # 6	18	2%	0.08	± 0.17	6
Total (#1-6)	108	100%	-0.05	± 0.04	
Subtotal of #1-5	90	98%	-0.06	± 0.04	
Subtotal of #2-5	72	96%	-0.08	± 0.03	
Subtotal of #2-6	90	98%	-0.08	± 0.04	

^a 95% confidence interval.

^b Number of measurements.

Table S2. Potassium Isotopic Compositions of Standards Doped With Potential Matrix Elements

Matrix Elements	$\delta^{41}\text{K}_{SRM3141a}$ (‰)	95% C.I. ^a	n ^b
1% Cr	-0.01 ±	0.06	12
2% Cr	0.04 ±	0.06	12
5% Cr	0.13 ±	0.04	12
10% Cr	0.23 ±	0.05	12

^a 95% confidence interval.

^b Number of measurements.