

Table A.2. LA-ICP-MS data for standards

Standard		GSE					
Element	Mass	n	Mean value in ppm (this study)	Mean error (1 sigma)	Literature value	C/Cstd	n
Li	6	32	429.76	111.24			8
Li	7	32	430.32	71.19	380	1.13	8
Ca	43	32	53031.28	2592.11			8
Ca	44	32	53000.00	3428.59			8
V	51	32	441.24		460	0.96	8
Sr	88	32	448.08	26.32	444	1.01	8
Y	89	32	411.20	26.28	449	0.92	8
Zr	90	32	409.10	26.85	427	0.96	8
La	139	32	393.08	32.36	392	1.00	8
Ce	140	32	415.11	25.10	405	1.02	8
Pr	141	32	461.34	25.54	460	1.00	8
Nd	146	32	453.93	28.49	449	1.01	8
Sm	147	32	488.93	30.51	478	1.02	8
Eu	153	32	411.25	26.35	403	1.02	8
Gd	157	32	515.07	30.86	514	1.00	8
Tb	159	32	481.25	29.82	501	0.96	8
Dy	163	32	525.35	29.90	535	0.98	8
Ho	165	32	502.63	34.08	511	0.98	8
Er	166	32	596.97	37.24	598	1.00	8
Tm	169	32	501.78	36.35	519	0.97	8
Yb	172	32	521.34	34.67	540	0.97	8
Lu	175	32	519.66	31.88	536	0.97	8
Hf	178	32	395.86	27.13	406	0.98	8
Pb	208	32	379.27	23.38	366	1.04	8
Th	232	32	381.10	23.60	391	0.97	8
U	238	32	421.31	23.35	377	1.12	8

Titre: Understanding preservation of primary signatures in apatite by comparing matrix and zircon-hosted crystals from the Eoarchean Acasta Gneiss Complex (Canada)

Antoine, C., Bruand, E., Guitreau, M., Devidal, J-L

GSC				Durango inclusion runs (sp)		
Mean value in ppm (this study)	Mean error (1 sigma)	Literature value	C/Cstd	n	Mean value in ppm (this study)	Mean error (1 sigma)
73.3	32.59			13	<d.l.	<d.l.
	8.48	5.6	0	13	<d.l.	<d.l.
50839.47	5800.59			13	299039.71	
50742.98	1661.42			13	292551.59	
6.82	1.72	5.2	1.31	13	34.24	9.04
32.64	2.13	31.8	1.03	13	375.78	30.45
4.90	0.54	4.8	1.02	13	401.81	39.04
				13	<d.l.	<d.l.
4.57	0.40	4.46	1.02	13	2712.04	264.16
4.78	0.42	4.63	1.03	13	3325.67	321.57
4.90	0.40	4.86	1.01	13	258.92	25.35
4.92	0.66	4.77	1.03	13	794.38	73.72
5.06	0.66	5.12	0.99	13	103.63	11.55
4.25	0.42	4.33	0.98	13	12.14	1.69
5.41	0.84	5.36	1.01	13	90.48	11.26
4.98	0.44	5.22	0.95	13	10.86	1.37
5.27	0.66	5.61	0.94	13	62.04	7.74
5.08	0.44	5.26	0.97	13	12.57	1.51
3.70	0.52	3.77	0.98	13	32.25	4.56
5.13	0.51	5.46	0.94	13	4.04	0.69
5.22	0.58	5.62	0.93	13	23.51	3.27
5.39	0.41	5.78	0.93	13	3.01	0.42
4.35	0.54	4.48	0.97	13	<d.l.	<d.l.
14.04	1.23	14.6	0.96	13	<d.l.	<d.l.
3.65	0.32	5.06	0.72	13	179.53	18.36
4.53	0.41	4.5	1.01	13	9.09	1.16

ot size 4 µm)		Durango matrix runs				
Literature value	C/Cstd	n	Mean value in ppm (this study)	Mean error (1 sigma)	Literature value	C/Cstd
		12	136.77	43.73		
		12	24.22	61.29		
		12	348906.29	11667.08		
		12	375842.27	23091.60		
36	0.95	12	38.99		36	1.08
500	0.75	12	458.69	11.07	500	0.92
410	0.98	12	523.62	27.72	410	1.28
0.4		12	<d.l.	<d.l.	0.4	
3310	0.82	12	3398.88	72.27	3310	1.03
4430	0.75	12	4112.82	223.84	4430	0.93
320	0.81	12	319.93	172.79	320	1.00
870	0.91	12	1010.15	34.32	870	1.16
120	0.86	12	136.05	44.10	120	1.13
16.9	0.72	12	15.14	6.04	16.9	0.90
103	0.88	12	120.23	3.61	103	1.17
13.5	0.80	12	14.75	5.85	13.5	1.09
68	0.91	12	83.68	2.36	68	1.23
15	0.84	12	16.73	4.41	15	1.12
35	0.92	12	45.59	1.95	35	1.30
5	0.81	12	5.52	2.44	5	1.10
27	0.87	12	32.00	1.07	27	1.19
3.8	0.79	12	3.95	1.70	3.8	1.04
		12	<d.l.	<d.l.		
0.7		12	<d.l.	<d.l.	0.7	
175	1.03	12	246.01	5.08	175	1.41
12.4	0.73	12	<d.l.	<d.l.	12.4	