

Table 1 Results of fs LA-MC-ICP-MS Sr isotope analysis of FEBS-1

Energy (mJ pulse ⁻¹)	Repetition Rate (Hz)	⁸⁸ Sr Intensity (V)	⁸⁵ Rb Intensity (V)	84Sr/86Sr Ratio	84Sr/86Sr SE	87Sr/86Sr Ratio	87Sr/86Sr SE	Raster Width (um)	Fluency (J cm ⁻²)
0.1	5	2.89	0.00014	0.056567	0.000009	0.709119	0.000021	46	6.02
	10	1.26	0.00007	0.056584	0.000023	0.709174	0.000036	48	5.53
	20	2.99	0.00010	0.056578	0.000010	0.709168	0.000019	46	6.02
	50	2.91	0.00011	0.056568	0.000009	0.709159	0.000019	42	7.22
	100	2.84	0.00010	0.056549	0.000010	0.709146	0.000022	44	6.58
	150	3.35	0.00013	0.056563	0.000008	0.709113	0.000022	40	7.96
	200	3.30	0.00009	0.056575	0.000009	0.709185	0.000021	44	6.58
0.2	5	4.02	0.00014	0.056556	0.000008	0.709198	0.000017	54	8.74
	10	3.31	0.00010	0.056535	0.000009	0.709146	0.000019	54	8.74
	20	4.84	0.00016	0.056538	0.000006	0.709173	0.000014	56	8.12
	50	5.10	0.00013	0.056558	0.000006	0.709138	0.000016	50	10.19
	100	5.92	0.00015	0.056538	0.000005	0.709161	0.000014	56	8.12
	150	6.29	0.00024	0.056545	0.000004	0.709175	0.000015	62	6.63
	200	6.71	0.00016	0.056523	0.000004	0.709151	0.000015	60	7.08
0.3	5	4.94	0.00020	0.056553	0.000007	0.709153	0.000016	56	12.19
	10	4.82	0.00016	0.056531	0.000006	0.709138	0.000016	62	9.94
	20	6.58	0.00020	0.056541	0.000005	0.709166	0.000013	62	9.94
	50	7.38	0.00019	0.056551	0.000004	0.709186	0.000012	58	11.36
	100	9.39	0.00024	0.056551	0.000004	0.709172	0.000012	68	8.26
	150	9.83	0.00034	0.056530	0.000004	0.709176	0.000012	66	8.77
	200	10.10	0.00022	0.056529	0.000003	0.709183	0.000011	66	8.77
0.4	5	6.03	0.00023	0.056555	0.000005	0.709134	0.000017	54	17.47
	10	6.55	0.00021	0.056534	0.000005	0.709171	0.000011	60	14.15
	20	8.51	0.00029	0.056540	0.000004	0.709151	0.000011	66	11.70
	50	9.90	0.00025	0.056537	0.000003	0.709169	0.000012	70	10.40
	100	13.06	0.00023	0.056528	0.000003	0.709171	0.000010	74	9.31
	150	13.79	0.00033	0.056524	0.000002	0.709163	0.000009	72	9.83
	200	14.84	0.00032	0.056524	0.000003	0.709163	0.000009	70	10.40
0.5	5	6.47	0.00025	0.056550	0.000004	0.709149	0.000015	72	12.29
	10	8.13	0.00028	0.056532	0.000004	0.709146	0.000012	76	11.03
	20	10.34	0.00026	0.056533	0.000003	0.709151	0.000011	74	11.63
	50	13.45	0.00029	0.056522	0.000003	0.709168	0.000011	78	10.47
	100	16.61	0.00037	0.056521	0.000002	0.709169	0.000009	78	10.47
	150	17.81	0.00033	0.056519	0.000002	0.709164	0.000009	82	9.47
	200	18.80	0.00037	0.056512	0.000002	0.709168	0.000009	84	9.03
0.6	5	6.95	0.00032	0.056554	0.000005	0.709168	0.000013	90	9.44
	10	9.55	0.00032	0.056534	0.000004	0.709159	0.000011	88	9.87
	20	11.79	0.00034	0.056528	0.000003	0.709170	0.000010	80	11.94
	50	16.72	0.00038	0.056528	0.000002	0.709166	0.000010	86	10.33
	100	20.39	0.00048	0.056520	0.000002	0.709165	0.000009	96	8.29
	150	21.10	0.00036	0.056517	0.000002	0.709172	0.000008	86	10.33
	200	21.80	0.00043	0.056511	0.000002	0.709167	0.000008	92	9.03

Data was normalized to EN-1, a reference material prepared by the USGS from the shell of a modern giant clam from Eniwetok Atoll, described by McArthur et al., 2006.

Table 2 Results of solution MC-ICP-MS Sr isotope analysis of FEBS-1

⁸⁸ Sr Intensity (V)	⁸⁵ Rb Intensity (V)	⁸⁴ Sr/ ⁸⁶ Sr Ratio	⁸⁴ Sr/ ⁸⁶ Sr SE	⁸⁷ Sr/ ⁸⁶ Sr Ratio	⁸⁷ Sr/ ⁸⁶ Sr SE
9.34	0.000022	0.056445	0.000011	0.709190	0.000003
8.85	0.000017	0.056466	0.000009	0.709201	0.000004
7.74	0.000013	0.056467	0.000009	0.709194	0.000003
7.27	0.000003	0.056418	0.000011	0.709199	0.000003
8.76	0.000007	0.056427	0.000010	0.709181	0.000003
9.16	0.000018	0.056419	0.000013	0.709199	0.000003
9.02	0.000015	0.056421	0.000011	0.709198	0.000003
12.33	0.000013	0.056441	0.000010	0.709206	0.000003
9.99	0.000010	0.056475	0.000008	0.709207	0.000003
8.83	0.000027	0.056440	0.000011	0.709194	0.000003
9.69	0.000025	0.056474	0.000012	0.709193	0.000003
9.92	0.000015	0.056476	0.000012	0.709198	0.000003
8.25	0.000015	0.056486	0.000010	0.709198	0.000003
8.83	0.000011	0.056457	0.000009	0.709192	0.000003
11.34	0.000025	0.056444	0.000006	0.709194	0.000003

Data was normalized to EN-1, a reference material prepared by the USGS from the shell of a modern giant clam from Eniwetok Atoll, described by McArthur et al., 2006.