

Appendix B

$^{40}\text{Ar}/^{39}\text{Ar}$ analytical data

Table 1. Analytical data for sample 1b.

Laser output	$^{40}\text{Ar}/^{39}\text{Ar}$	$^{37}\text{Ar}/^{39}\text{Ar}$	$^{36}\text{Ar}/^{39}\text{Ar}$	K/Ca	$^{40}\text{Ar}^*$	$^{39}\text{Ar}_K$	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	Age(\pm 1s)
			($\times 10^{-3}$)		(%)	fraction (%)		(Ma)
1-b d2-A	<i>C07221</i>	<i>GeNF</i>						
	J= 0.00205							
0.014	176.2347 \pm 0.8948	0.254 \pm 0.0539	559.706 \pm 4.604	2.313	6.2	1.1	10.876 \pm 1.075	39.78 \pm 3.89
0.016	17.46 \pm 0.04	0.249 \pm 0.013	4.3 \pm 0.2	2.358	92.9	5.5	16.23 \pm 0.07	59.0 \pm 0.3
0.018	23.64 \pm 0.05	0.112 \pm 0.004	1.73 \pm 0.05	5.271	97.9	18.0	23.15 \pm 0.05	83.6 \pm 0.4
0.02	23.07 \pm 0.05	0.138 \pm 0.004	0.94 \pm 0.05	4.276	98.9	23.0	22.82 \pm 0.05	82.5 \pm 0.4
0.022	22.75 \pm 0.08	0.159 \pm 0.006	1.19 \pm 0.13	3.688	98.5	12.1	22.42 \pm 0.09	81.1 \pm 0.4
0.024	22.35 \pm 0.05	0.158 \pm 0.008	0.74 \pm 0.07	3.722	99.1	10.3	22.15 \pm 0.05	80.1 \pm 0.4
0.026	21.80 \pm 0.05	0.168 \pm 0.008	0.50 \pm 0.07	3.500	99.4	16.4	21.67 \pm 0.05	78.4 \pm 0.4
0.028	20.59 \pm 0.03	0.226 \pm 0.010	0.56 \pm 0.10	2.600	99.3	11.3	20.46 \pm 0.04	74.1 \pm 0.3
0.042	21.39 \pm 0.11	0.40 \pm 0.04	5.2 \pm 0.5	1.488	93.1	2.3	19.91 \pm 0.17	72.2 \pm 0.7

Table 2. Analytical data for sample 5 (2. analysis).

Laser output	$^{40}\text{Ar}/^{39}\text{Ar}$	$^{37}\text{Ar}/^{39}\text{Ar}$	$^{36}\text{Ar}/^{39}\text{Ar}$	K/Ca	$^{40}\text{Ar}^*$	$^{39}\text{Ar}_K$	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	Age($\pm 1\text{s}$)				
			($\times 10^{-3}$)		(%)	fraction (%)		(Ma)				
5 (2) d11-13	C07277	GeNF										
	J= 0.00205											
0.016	47.3166 \pm 0.4107	1.875	\pm 0.2989	121.626	\pm 1.940	0.313	24.5	5.3	11.628	\pm 0.548	42.48	\pm 1.98
0.018	30.32 \pm 0.16	1.8	\pm 0.2	16.3	\pm 0.8	0.327	84.8	10.4	25.8	\pm 0.3	92.8	\pm 1.0
0.02	33.10 \pm 0.10	1.43	\pm 0.11	7.4	\pm 0.2	0.412	94.0	29.3	31.14	\pm 0.12	111.6	\pm 0.6
0.022	35.88 \pm 0.12	3.4	\pm 0.2	7.2	\pm 0.4	0.172	95.3	17.5	34.28	\pm 0.18	122.5	\pm 0.8
0.024	30.9 \pm 0.3	6.3	\pm 0.7	8.8	\pm 1.6	0.093	94.1	4.3	29.2	\pm 0.5	104.9	\pm 1.9
0.026	31.1 \pm 0.5	2	\pm 2	3	\pm 4	0.264	97.9	1.5	30.5	\pm 1.4	109	\pm 5
0.028	31.18 \pm 0.11	5.0	\pm 0.4	8.1	\pm 0.6	0.118	94.3	12.4	29.5	\pm 0.2	106.0	\pm 0.8
0.028	35.94 \pm 0.14	6.6	\pm 0.2	9.5	\pm 0.5	0.088	94.5	19.2	34.2	\pm 0.2	122.0	\pm 0.9

Table 3. Summarized data for sample 16 (2. analysis).

Laser output	$^{40}\text{Ar}/^{39}\text{Ar}$	$^{37}\text{Ar}/^{39}\text{Ar}$	$^{36}\text{Ar}/^{39}\text{Ar}$	K/Ca	$^{40}\text{Ar}^*$ (%)	$^{39}\text{Ar}_K$ fraction (%)	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	Age(\pm 1s) (Ma)
16 (2) d1-12	<i>C07278</i>	<i>GeNF</i>						
	J= 0.00205							
0.016	61.2576 \pm 0.3245	2.155 \pm 0.8153	154.865 \pm 1.564	0.272	25.7	6.4	15.792 \pm 0.448	57.45 \pm 1.62
0.018	42.56 \pm 0.16	1.6 \pm 0.4	12.4 \pm 0.8	0.373	91.9	11.2	39.2 \pm 0.3	139.2 \pm 1.1
0.02	50.29 \pm 0.14	1.0 \pm 0.3	5.9 \pm 0.3	0.593	96.8	22.2	48.70 \pm 0.17	171.6 \pm 0.9
0.022	45.1 \pm 0.2	2.2 \pm 0.4	6.3 \pm 0.3	0.266	96.5	19.8	43.6 \pm 0.2	154.4 \pm 1.0
0.024	41.2 \pm 0.2	4.9 \pm 0.8	6.4 \pm 1.0	0.120	96.9	7.8	40.1 \pm 0.4	142.5 \pm 1.4
0.026	42.58 \pm 0.18	5.3 \pm 0.3	6.1 \pm 0.4	0.111	97.3	18.5	41.6 \pm 0.2	147.6 \pm 0.9
0.03	61.1 \pm 0.3	7.1 \pm 0.4	9.3 \pm 0.6	0.082	96.9	14.2	59.6 \pm 0.4	208.0 \pm 1.4

Table 4. Summarized data for sample J96-1.

Laser output	$^{40}\text{Ar}/^{39}\text{Ar}$	$^{37}\text{Ar}/^{39}\text{Ar}$	$^{36}\text{Ar}/^{39}\text{Ar}$	K/Ca	$^{40}\text{Ar}^*$	$^{39}\text{Ar}_K$	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	Age(\pm 1s)
			($\times 10^{-3}$)		(%)	fraction (%)		(Ma)
J96-1 d2-C	C07218	GeNF						
	J= 0.00205							
0.012	843.1821 \pm 62.7998	2.432 \pm 2.8066	2712.260 \pm 208.655	0.241	5.0	0.0	42.105 \pm 15.862	149.36 \pm 54.01
0.014	47.4 \pm 0.7	0.2 \pm 0.3	139 \pm 5	2.942	13.7	0.2	6.5 \pm 1.5	24 \pm 6
0.018	17.767 \pm 0.016	0.175 \pm 0.002	3.09 \pm 0.03	3.352	95.0	34.4	16.879 \pm 0.017	61.4 \pm 0.2
0.02	22.29 \pm 0.03	0.114 \pm 0.004	1.87 \pm 0.09	5.161	97.6	15.5	21.75 \pm 0.04	78.7 \pm 0.3
0.022	21.07 \pm 0.04	0.137 \pm 0.010	1.95 \pm 0.09	4.292	97.3	8.8	20.52 \pm 0.05	74.3 \pm 0.3
0.024	20.49 \pm 0.03	0.136 \pm 0.008	2.07 \pm 0.18	4.337	97.1	9.4	19.89 \pm 0.06	72.1 \pm 0.4
0.026	20.124 \pm 0.018	0.169 \pm 0.006	1.61 \pm 0.08	3.488	97.7	18.3	19.67 \pm 0.03	71.3 \pm 0.3
0.028	19.72 \pm 0.03	0.189 \pm 0.008	1.79 \pm 0.14	3.114	97.4	9.2	19.22 \pm 0.05	69.7 \pm 0.3
0.036	19.79 \pm 0.05	0.19 \pm 0.02	2.7 \pm 0.3	3.073	96.2	4.2	19.03 \pm 0.09	69.0 \pm 0.4

Table 5. Summarized data for sample J96-1 (2. analysis).

Laser output	$^{40}\text{Ar}/^{39}\text{Ar}$	$^{37}\text{Ar}/^{39}\text{Ar}$	$^{36}\text{Ar}/^{39}\text{Ar}$	K/Ca	$^{40}\text{Ar}^*$	$^{39}\text{Ar}_K$	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	Age(\pm 1s)				
			($\times 10^{-3}$)		(%)	fraction (%)		(Ma)				
J96-1_2 d2-C C07223 GeNF												
J= 0.00205												
0.014	42.5188 \pm 0.4148	0.120	\pm 0.0971	122.930	\pm 2.650	4.915	14.6	0.7	6.208	\pm 0.717	22.82	\pm 2.62
0.016	11.75 \pm 0.03	0.272	\pm 0.006	3.25	\pm 0.09	2.166	92.1	13.3	10.82	\pm 0.04	39.6	\pm 0.2
0.018	21.87 \pm 0.07	0.121	\pm 0.007	1.96	\pm 0.13	4.875	97.4	16.4	21.30	\pm 0.08	77.1	\pm 0.4
0.02	21.84 \pm 0.04	0.132	\pm 0.007	1.48	\pm 0.08	4.441	98.1	20.5	21.42	\pm 0.04	77.5	\pm 0.3
0.022	21.25 \pm 0.05	0.182	\pm 0.012	1.47	\pm 0.13	3.239	98.1	11.2	20.84	\pm 0.06	75.5	\pm 0.4
0.024	20.975 \pm 0.018	0.227	\pm 0.007	1.58	\pm 0.09	2.586	97.9	20.2	20.54	\pm 0.03	74.4	\pm 0.3
0.026	20.00 \pm 0.06	0.250	\pm 0.011	1.76	\pm 0.13	2.355	97.6	11.6	19.51	\pm 0.07	70.8	\pm 0.4
0.028	19.24 \pm 0.05	0.27	\pm 0.03	2.5	\pm 0.3	2.165	96.4	3.9	18.54	\pm 0.10	67.3	\pm 0.4
0.04	19.15 \pm 0.12	0.26	\pm 0.05	3.5	\pm 0.7	2.259	94.8	2.2	18.2	\pm 0.2	65.9	\pm 0.8

Table 6. Summarized data for sample J96-2.

Laser output	$^{40}\text{Ar}/^{39}\text{Ar}$	$^{37}\text{Ar}/^{39}\text{Ar}$	$^{36}\text{Ar}/^{39}\text{Ar}$	K/Ca	$^{40}\text{Ar}^*$	$^{39}\text{Ar}_K$	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	Age($\pm 1\text{s}$)
			($\times 10^{-3}$)		(%)	fraction (%)		(Ma)
J96-2 d2-B	C07222	GeNF						
	J= 0.00205							
0.014	51.2676 \pm 2.1496	1.573	\pm 0.9876	206.645 \pm 23.085	0.374	1.0	\pm 6.393	1.86 \pm 23.62
0.016	12.04 \pm 0.10	1.73	\pm 0.05	11.3 \pm 0.7	0.340	74.1	\pm 0.2	32.8 \pm 0.8
0.018	17.60 \pm 0.08	0.53	\pm 0.04	3.9 \pm 0.6	1.119	93.8	\pm 0.19	60.1 \pm 0.7
0.02	17.48 \pm 0.03	0.91	\pm 0.02	2.2 \pm 0.2	0.645	97.0	\pm 0.08	61.7 \pm 0.4
0.022	17.40 \pm 0.11	1.78	\pm 0.04	2.6 \pm 0.4	0.330	96.9	\pm 0.16	61.4 \pm 0.6
0.024	17.37 \pm 0.04	1.818	\pm 0.020	2.28 \pm 0.14	0.323	97.4	\pm 0.05	61.6 \pm 0.3
0.026	17.68 \pm 0.08	1.55	\pm 0.05	2.0 \pm 0.6	0.380	97.8	\pm 0.2	62.9 \pm 0.8
0.026	18.73 \pm 0.12	1.52	\pm 0.09	3.8 \pm 1.0	0.386	95.1	\pm 0.3	64.8 \pm 1.2

