

Analyst	C Wilkinson		
Owner	Teal Riley		
Sample name	DR.225.27	Internal code	CR3b
spectrometer	MAP	laser	IR
Analysis mode	IR Step Heating	Mineral	Basalt whole rock
Irradiation information			
Reactor	McMaster, Canada	Duration	40 hrs
J Value		MWH	120
		Reactor position	8E
Standard Used	GA1550 (99.738+/- 0.104, Renne et al 2011)	Calculated J	0.00295625 +/- 0.5%
Corrections			
40Ar/36Ar atmospheric	298.56 (Lee et al 2006)		
Decay constants Renne et al 2011			
Discrimination correction 1.003106			
$(^{39}\text{Ar}/^{37}\text{Ar})_{\text{Ca}}$ 0.00065±0.00000325		$(^{36}\text{Ar}/^{37}\text{Ar})_{\text{Ca}}$ 0.000265±0.000001325	
		$(^{40}\text{Ar}/^{39}\text{Ar})_{\text{K}}$ 0.0085±0.0000425	

1σ																							
Run No	Type	Comment	Date	Time	40Ar	+/-	39Ar	+/-	38Ar	+/-	37Ar	+/-	36Ar	+/-	40Ar*/39Ar	+/-	Age	+/-	+/- (no J error)	39/40	+/-	36/40	+/-
W22A48236	McM126_CR3b	Step 1	07/06/2022	09:49	0.50941	0.00150	0.00284	0.00011	0.00031	0.00007	0.03133	0.00054	0.00158	0.00005	13.00776	5.56788	68.23	28.66	28.66	0.0056	0.0002	0.0031	0.0001
W22A48238	McM126_CR3b	Step 2	07/06/2022	10:39	1.04363	0.00224	0.00783	0.00020	0.00077	0.00006	0.11450	0.00054	0.00310	0.00008	15.06226	3.14673	78.78	16.11	16.10	0.0075	0.0002	0.0030	0.0001
W22A48240	McM126_CR3b	Step 3	07/06/2022	11:21	1.23618	0.00278	0.01844	0.00026	0.00103	0.00011	0.33762	0.00054	0.00340	0.00009	11.96665	1.49697	62.87	7.73	7.73	0.0149	0.0002	0.0028	0.0001
W22A48242	McM126_CR3b	Step 4	07/06/2022	12:14	2.18600	0.00405	0.04096	0.00062	0.00201	0.00010	0.67548	0.00054	0.00503	0.00011	16.68878	0.85430	87.08	1.14	1.79	0.0187	0.0003	0.0023	0.0001
W22A48246	McM126_CR3b	Step 5	07/06/2022	14:26	2.12041	0.00357	0.06394	0.00053	0.00191	0.00008	1.27293	0.00054	0.00371	0.00010	15.82071	0.49364	82.66	2.52	2.52	0.0302	0.0003	0.0018	0.0000
W22A48248	McM126_CR3b	Step 6	07/06/2022	15:17	1.40129	0.00248	0.05805	0.00039	0.00134	0.00013	0.78617	0.00054	0.00168	0.00008	15.48596	0.43453	80.95	2.22	2.22	0.0414	0.0003	0.0012	0.0001
W22A48250	McM126_CR3b	Step 7	07/06/2022	16:03	0.81747	0.00207	0.03313	0.00046	0.00096	0.00007	0.41280	0.00054	0.00109	0.00003	14.83623	0.31357	77.62	1.61	1.61	0.0405	0.0006	0.0013	0.0000
W22A48256	McM126_CR3b	Step 8	08/06/2022	11:29	0.33080	0.00135	0.01152	0.00012	0.00025	0.00005	0.17706	0.00031	0.00055	0.00004	14.46244	1.01740	75.71	5.22	5.22	0.0348	0.0004	0.0017	0.0001
W22A48258	McM126_CR3b	Step 9	08/06/2022	12:19	0.64492	0.00169	0.02264	0.00044	0.00070	0.00005	0.48679	0.00031	0.00105	0.00006	14.67301	0.78918	76.79	4.04	4.04	0.0351	0.0007	0.0016	0.0001
W22A48260	McM126_CR3b	Step 10	08/06/2022	13:07	0.47997	0.00177	0.01762	0.00024	0.00041	0.00006	0.31034	0.00031	0.00081	0.00004	13.43939	0.68635	70.45	3.53	3.53	0.0367	0.0005	0.0017	0.0001
W22A48262	McM126_CR3b	Step 11	08/06/2022	13:47	1.00530	0.00289	0.02970	0.00041	0.00096	0.00006	0.35559	0.00031	0.00192	0.00006	14.52299	0.68843	76.02	3.53	3.53	0.0295	0.0004	0.0019	0.0001