

Table 1. Ar/Ar Summary Table

Sample: MB06-673a				Lab #: 56972		J: 7.54E-04 ±7.54E-04				IC: 1.000 ±0.0000								
Material: Kaersutite				IGSN:														
N	Power	<sup>40</sup> Ar	<sup>40</sup> Ar	± 1σ	<sup>39</sup> Ar	± 1σ	<sup>38</sup> Ar	± 1σ	<sup>37</sup> Ar	± 1σ	<sup>36</sup> Ar	± 1σ	Age	± 1σ	% <sup>40</sup> Ar*	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	K/Ca	
	(W)		(10 <sup>3</sup> fA)		(10 <sup>3</sup> fA)								(10 <sup>-2</sup> fA)	(Ma)				
	01A	950.0	0.0	0.00178	0.00131	0.00007	0.00009	0.00216	0.00003	0.00948	0.00005	0.00449	0.00403	9.02	0.2343	25.8	6.64600	1.1
	01B	1050.0	0.0	0.00064	0.00111	0.00002	0.00006	0.00066	0.00002	0.01870	0.00008	0.00162	0.00342	10.00	0.6028	26.2	7.36964	0.2
	01C	1100.0	0.0	0.00128	0.00136	0.00010	0.00014	0.00168	0.00002	0.00102	0.00002	0.00228	0.00348	8.27	0.1423	47.2	6.09173	15.2
P	01D	1110.0	0.0	0.00007	0.00039	7.52E-06	0.00006	0.00019	0.00005	0.01035	0.00007	0.00011	0.00149	8.17	0.8017	61.0	6.02083	0.1
P	01E	1120.0	0.0	0.00059	0.00082	0.00008	0.00013	0.00106	0.00005	-0.00209	0.00005	0.00039	0.00157	8.05	0.0818	80.3	5.93205	-5.9
P	01F	1130.0	0.0	0.00064	0.00085	0.00007	0.00011	0.00112	0.00005	-0.00212	0.00005	0.00068	0.00186	8.00	0.1012	68.5	5.89235	-5.5
P	01G	1140.0	0.0	0.00001	0.00019	1.04E-06	0.00005	0.00005	0.00004	0.00210	0.00007	8.49E-06	0.00154	12.12	5.9693	82.7	8.93832	7.64
P	01H	1150.0	0.0	0.00004	0.00026	4.58E-06	0.00005	0.00013	0.00004	0.00809	0.00009	0.00003	0.00151	8.92	1.3342	82.0	6.57334	8.74
P	01I	1200.0	0.0	0.00038	0.00063	0.00004	0.00009	0.00058	0.00005	-0.00230	0.00005	0.00060	0.00172	7.60	0.1899	53.5	5.59899	-2.5
P	01J	1700.0	0.0	0.00009	0.00031	3.54E-07	0.00004	0.00010	0.00004	0.04297	0.00013	0.00032	0.00158	25.98	25.0954	5.7	19.24207	9.32
Weighted Mean Age														8.09879 ±0.05366				
Integrated														8.36986 ±8.35085				
Plateau											Steps	D-J	7.98947 ±0.06009					
Isochron														7.90139 ±7.88411				

Sample: MB07-001				Lab #: 57718		J: 7.69E-04 ±7.69E-04				IC: 1.000 ±0.0000								
Material: Groundmass concentrate				IGSN:														
	N	Temp (C)	<sup>40</sup> Ar	<sup>40</sup> Ar (10 <sup>3</sup> fA)	± 1σ	<sup>39</sup> Ar (10 <sup>3</sup> fA)	± 1σ	<sup>38</sup> Ar	± 1σ	<sup>37</sup> Ar	± 1σ	<sup>36</sup> Ar	± 1σ	Age (Ma)	± 1σ	% <sup>40</sup> Ar*	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	K/Ca
P	01A	550.0	0.0	0.00753	0.00365	0.00001	0.00008	0.00508	0.00008	0.00387	0.00006	0.02516	0.00866	8.76	2.4643	1.2	6.33206	0.8
P	01B	625.0	0.0	0.00114	0.00092	0.00004	0.00009	0.00103	0.00003	0.00772	0.00008	0.00305	0.00394	8.26	0.3991	21.2	5.96487	1.1
P	01C	700.0	0.0	0.00072	0.00066	0.00007	0.00012	0.00108	0.00005	0.01035	0.00008	0.00112	0.00225	8.20	0.1387	54.7	5.92444	1.4
P	01D	750.0	0.0	0.00042	0.00054	0.00004	0.00011	0.00068	0.00003	0.00748	0.00007	0.00058	0.00154	7.69	0.1428	59.2	5.55524	1.3
P	01E	800.0	0.0	0.00052	0.00059	0.00005	0.00010	0.00074	0.00004	0.01117	0.00009	0.00093	0.00172	7.70	0.1564	48.3	5.56486	0.9
P	01F	875.0	0.0	0.00067	0.00072	0.00006	0.00013	0.00093	0.00004	0.01549	0.00012	0.00110	0.00211	8.12	0.1486	51.7	5.86955	0.8
P	01G	975.0	0.0	0.00122	0.00079	0.00009	0.00016	0.00161	0.00003	0.02390	0.00012	0.00231	0.00272	8.14	0.1221	44.4	5.88140	0.8
	01H	1075.0	0.0	0.00103	0.00087	0.00010	0.00016	0.00156	0.00005	0.03397	0.00020	0.00168	0.00246	7.59	0.1047	52.1	5.48181	0.6
	01I	1250.0	0.0	0.00353	0.00210	0.00021	0.00021	0.00426	0.00006	0.00106	0.00007	0.00822	0.00428	7.24	0.0847	31.1	5.23137	42.8
	01J	1700.0	0.0	0.00213	0.00191	6.41E-06	0.00005	0.00143	0.00004	0.01816	0.00012	0.00715	0.00510	5.08	3.2942	1.1	3.66962	7.62E-0
Weighted Mean Age														7.70743 ±0.04511				
Integrated														7.71881 ±7.70273				
Plateau												Steps	A-G	7.95011 ±0.07186				
Isochron														7.68818 ±7.67182				

Sample: MB06-750a				Lab #: 56969		J: 7.62E-04 ±7.62E-04				IC: 1.000 ±0.0000							
Material: Kaersutite				IGSN:													
N	Power	<sup>40</sup> Ar	<sup>40</sup> Ar	± 1σ	<sup>39</sup> Ar	± 1σ	<sup>38</sup> Ar	± 1σ	<sup>37</sup> Ar	± 1σ	<sup>36</sup> Ar	± 1σ	Age	± 1σ	% <sup>40</sup> Ar*	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	K/Ca
	(W)		(10 <sup>-3</sup> fA)		(10 <sup>-3</sup> fA)							(10 <sup>-2</sup> fA)	(Ma)				
01A	950.0	0.0	0.00101	0.00124	0.00002	0.00006	0.00076	0.00006	0.00334	0.00004	0.00291	0.00217	9.51	0.4176	14.7	6.94045	1.0
01B	1050.0	0.0	0.00016	0.00051	8.27E-06	0.00004	0.00018	0.00001	0.01006	0.00006	0.00040	0.00644	7.37	3.1607	28.0	5.37712	0.1
01C	1100.0	0.0	0.00069	0.00105	0.00007	0.00013	0.00108	0.00003	0.00077	0.00002	0.00093	0.00649	8.04	0.3695	60.2	5.86330	14.5
01D	1110.0	0.0	0.00003	0.00032	2.46E-06	0.00004	1.84E-06	0.00001	0.00358	0.00005	0.00006	0.00164	7.84	2.7174	46.1	5.71879	0.1
01E	1120.0	0.0	0.00016	0.00063	0.00002	0.00008	0.00026	0.00002	0.03094	0.00010	0.00013	0.00170	8.48	0.3355	80.4	6.18629	0.1
01F	1130.0	0.0	0.00028	0.00080	0.00004	0.00011	0.00045	0.00001	0.05734	0.00017	0.00020	0.00172	8.59	0.1890	84.7	6.26656	0.1
01G	1140.0	0.0	0.00020	0.00062	0.00003	0.00008	0.00034	0.00002	0.03986	0.00013	0.00014	0.00169	8.71	0.2638	84.0	6.35607	0.1
P 01H	1150.0	0.0	0.00039	0.00080	0.00005	0.00014	0.00067	0.00002	-0.00059	0.00003	0.00023	0.00175	8.12	0.1347	82.2	5.92467	-14.2
P 01I	1200.0	0.0	0.00215	0.00135	0.00029	0.00037	0.00389	0.00004	0.00291	0.00003	0.00162	0.00234	7.93	0.0348	77.8	5.78358	15.6
P 01J	1700.0	0.0	0.00013	0.00040	1.47E-06	0.00003	0.00008	0.00001	0.04958	0.00011	0.00047	0.00186	5.34	5.6606	4.1	3.89306	4.28E-01
Weighted Mean Age													7.98756 ±0.03256				
Integrated													8.11909 ±8.10126				
Plateau											Steps	H-J	7.94137 ±0.03373				
Isochron													7.89253 ±7.87529				

Sample: MB07-193			Lab #: 61601			J: 4.85E-03 ±4.85E-03			IC: 1.000 ±0.0000								
Material: Groundmass concentrate				IGSN:													
N	Power	<sup>40</sup> Ar	<sup>40</sup> Ar	± 1σ	<sup>39</sup> Ar	± 1σ	<sup>38</sup> Ar	± 1σ	<sup>37</sup> Ar	± 1σ	<sup>36</sup> Ar	± 1σ	Age	± 1σ	% <sup>40</sup> Ar*	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	K/Ca
	(W)		(10 <sup>3</sup> fA)		(10 <sup>3</sup> fA)							(10 <sup>-2</sup> fA)	(Ma)				
01A	17.0	0.0	0.06630	0.02994	0.00160	0.01187	0.41072	0.02078	0.42980	0.04708	0.21967	0.10091	8.50	1.6377	2.3	0.97367	0.4
01B	17.5	0.0	2.31410	0.13814	0.07385	0.01758	9.66112	0.02344	9.90282	0.04498	7.57065	0.76547	9.53	0.2671	3.5	1.09184	0.8
01C	18.0	0.0	1.47285	0.09080	0.23588	0.03418	23.52007	0.02357	23.57634	0.04903	4.27178	0.51039	8.10	0.0558	14.9	0.92775	1.0
01D	18.5	0.0	1.33048	0.09525	0.36124	0.03861	31.72764	0.02431	66.31780	0.05175	3.48446	0.42265	7.87	0.0302	24.5	0.90160	0.6
01E	19.0	0.0	0.53348	0.05249	0.23640	0.02961	18.49078	0.02330	76.68260	0.05038	1.18614	0.24594	7.86	0.0269	39.8	0.89975	0.3
01F	19.5	0.0	0.47219	0.05243	0.16289	0.02714	12.88532	0.02339	54.92306	0.05241	1.17800	0.22198	7.80	0.0353	30.8	0.89281	0.3
01G	20.0	0.0	0.37545	0.04719	0.11050	0.02121	9.05238	0.02369	38.16340	0.05010	0.99490	0.21594	7.61	0.0505	25.6	0.87165	0.3
01H	20.5	0.0	0.25351	0.04278	0.07360	0.01839	6.07202	0.02271	25.86089	0.04961	0.67970	0.15969	7.44	0.0562	24.7	0.85240	0.3
01I	22.0	0.0	1.72172	0.11963	0.41734	0.04151	36.16369	0.02329	154.4404	0.06199	4.81393	0.52208	7.52	0.0324	20.9	0.86164	0.3
01K	26.0	0.0	0.06335	0.02979	0.01640	0.01331	2.02759	0.02248	89.87210	0.05086	0.29170	0.11312	7.26	0.1828	21.1	0.83146	1.82E-
01L	30.0	0.0	0.01096	0.02695	0.00371	0.01176	0.44621	0.02173	25.56726	0.04668	0.06210	0.06437	7.05	0.4654	26.7	0.80777	1.44E-
Weighted Mean Age													7.76284 ±0.01372				
Integrated													7.83802 ±7.82105				
Plateau										Steps							
Isochron													6.33678 ±6.32567				

Sample: MB07-052			Lab #: 58617			J: 2.19E-03 ±2.19E-03			IC: 1.000 ±0.0000								
Material: Groundmass concentrate				IGSN:													
N	Temp (C)	<sup>40</sup> Ar	<sup>40</sup> Ar (10 <sup>3</sup> fA)	± 1σ	<sup>39</sup> Ar (10 <sup>3</sup> fA)	± 1σ	<sup>38</sup> Ar	± 1σ	<sup>37</sup> Ar	± 1σ	<sup>36</sup> Ar	± 1σ	Age (Ma)	± 1σ	% <sup>40</sup> Ar*	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	K/Ca
01A	550.0	0.0	0.00500	0.00300	0.00004	0.00013	0.05777	0.00024	0.01186	0.00010	0.01643	0.00831	14.19	2.2575	3.1	3.60353	0.5
01B	625.0	0.0	0.00216	0.00178	0.00011	0.00019	0.02915	0.00016	0.01077	0.00010	0.00639	0.00460	9.83	0.4955	12.6	2.49239	1.3
01C	700.0	0.0	0.00209	0.00211	0.00016	0.00021	0.01285	0.00012	0.01449	0.00012	0.00598	0.00758	7.80	0.5433	15.5	1.97785	1.4
01D	750.0	0.0	0.00147	0.00128	0.00010	0.00016	0.00786	0.00009	0.01274	0.00012	0.00422	0.00428	9.05	0.4982	15.7	2.29499	1.0
01E	800.0	0.0	0.00144	0.00132	0.00010	0.00018	0.00931	0.00010	0.01745	0.00012	0.00407	0.00404	9.70	0.4677	17.2	2.45976	0.7
01F	875.0	0.0	0.00226	0.00230	0.00016	0.00020	0.01482	0.00011	0.02615	0.00014	0.00650	0.00481	8.67	0.3568	15.5	2.19725	0.8
P 01G	975.0	0.0	0.00278	0.00231	0.00019	0.00026	0.01564	0.00011	0.03347	0.00019	0.00804	0.00563	8.47	0.3449	14.8	2.14815	0.7
P 01H	1075.0	0.0	0.00740	0.00414	0.00038	0.00045	0.03399	0.00017	0.07009	0.00021	0.02264	0.00857	7.50	0.2647	9.8	1.90126	0.7
P 01I	1250.0	0.0	0.01718	0.00926	0.00088	0.00095	0.09319	0.00028	0.00163	0.00004	0.05245	0.01391	7.50	0.1886	9.8	1.90184	67.4
P 01J	1700.0	0.0	0.00439	0.00277	0.00004	0.00014	0.00579	0.00008	0.00051	0.00004	0.01469	0.00888	4.64	2.6445	1.1	1.17581	9.5
Weighted Mean Age													8.10097 ±0.11543				
Integrated													8.06694 ±8.05001				
Plateau											Steps	G-J	7.66253 ±0.14031				
Isochron													8.00466 ±7.98692				

Sample: MB07-028			Lab #: 58611			J: 2.19E-03 ±2.19E-03			IC: 1.000 ±0.0000									
Material: Kaersutite				IGSN:														
N	Temp	<sup>40</sup> Ar	<sup>40</sup> Ar	± 1σ	<sup>39</sup> Ar	± 1σ	<sup>38</sup> Ar	± 1σ	<sup>37</sup> Ar	± 1σ	<sup>36</sup> Ar	± 1σ	Age	± 1σ	% <sup>40</sup> Ar*	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	K/Ca	
	(C)		(10 <sup>-3</sup> fA)		(10 <sup>-3</sup> fA)							(10 <sup>-2</sup> fA)	(Ma)					
02A	950.0	0.0	0.00052	0.00072	0.00003	0.00008	0.00926	0.00007	0.00870	0.00011	0.00141	0.00279	13.45	1.0565	20.3	3.41800	0.4	
02B	1050.0	0.0	0.00004	0.00034	7.53E-06	0.00005	0.00086	0.00004	0.00180	0.00006	0.00010	0.00211	9.05	3.2519	38.5	2.29810	0.5	
02C	1120.0	0.0	0.00021	0.00049	0.00005	0.00014	0.00354	0.00008	0.04872	0.00020	0.00033	0.00231	11.08	0.5906	62.6	2.81564	0.1	
02D	1130.0	0.0	0.00015	0.00052	0.00005	0.00012	0.00365	0.00005	0.05865	0.00017	0.00016	0.00211	10.18	0.5056	84.3	2.58637	9.45E-01	
02E	1145.0	0.0	0.00023	0.00073	0.00007	0.00015	0.00447	0.00007	0.07777	0.00030	0.00036	0.00309	9.15	0.5475	67.4	2.32399	9.57E-01	
P	02F	1150.0	0.0	0.00037	0.00060	0.00012	0.00749	0.00008	-0.00022	0.00003	0.00044	0.00229	7.88	0.2220	64.8	2.00058	-59.4	
P	02G	1160.0	0.0	0.00033	0.00059	0.00011	0.00017	0.00637	0.00006	-0.00029	0.00003	0.00040	0.00233	7.72	0.2558	63.4	1.95802	-40.3
P	02H	1200.0	0.0	0.00119	0.00101	0.00042	0.00054	0.02586	0.00018	0.00105	0.00003	0.00124	0.00286	7.62	0.0802	68.9	1.93367	44.3
P	02I	1700.0	0.0	0.00320	0.00226	0.00006	0.00015	0.00532	0.00006	-0.00027	0.00004	0.01053	0.00543	6.33	1.1334	2.8	1.60575	-22.5
Weighted Mean Age													7.79801 ±0.07019					
Integrated													8.22822 ±8.21031					
Plateau											Steps	F-I	7.65509 ±0.07234					
Isochron													7.69338 ±7.67699					

Sample: MB07-065				Lab #: 58620		J: 2.20E-03 ±2.20E-03				IC: 1.000 ±0.0000								
Material: Groundmass concentrate				IGSN:														
	N	Temp (C)	<sup>40</sup> Ar	<sup>40</sup> Ar (10 <sup>3</sup> fA)	± 1σ	<sup>39</sup> Ar (10 <sup>3</sup> fA)	± 1σ	<sup>38</sup> Ar	± 1σ	<sup>37</sup> Ar	± 1σ	<sup>36</sup> Ar	± 1σ	Age (Ma)	± 1σ	% <sup>40</sup> Ar*	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	K/Ca
P	01A	550.0	0.0	0.01504	0.00703	0.00036	0.00042	0.63274	0.00097	0.01377	0.00011	0.04840	0.01163	8.44	0.3882	5.1	2.13085	3.2
P	01B	625.0	0.0	0.00162	0.00125	0.00015	0.00022	0.58392	0.00096	0.01914	0.00011	0.00458	0.00452	7.80	0.3544	18.1	1.96917	1.0
P	01C	700.0	0.0	0.00092	0.00092	0.00008	0.00018	0.04391	0.00018	0.04713	0.00019	0.00262	0.00460	7.79	0.6741	17.2	1.96688	0.2
P	01D	750.0	0.0	0.00070	0.00074	0.00007	0.00014	0.00574	0.00008	0.04645	0.00018	0.00194	0.00321	7.59	0.5186	20.0	1.91736	0.2
P	01E	800.0	0.0	0.00068	0.00090	0.00008	0.00013	0.00504	0.00007	0.03936	0.00025	0.00185	0.00298	6.95	0.4390	20.8	1.75466	0.3
P	01F	875.0	0.0	0.00088	0.00088	0.00008	0.00016	0.00453	0.00007	0.03665	0.00023	0.00254	0.00376	6.99	0.5658	15.7	1.76536	0.3
P	01G	975.0	0.0	0.00054	0.00056	0.00007	0.00015	0.00336	0.00006	0.03942	0.00021	0.00141	0.00277	7.34	0.4420	25.3	1.85254	0.2
P	01H	1075.0	0.0	0.00031	0.00058	0.00006	0.00016	0.00237	0.00005	0.03534	0.00013	0.00067	0.00254	7.29	0.4665	38.8	1.83991	0.2
	01I	1250.0	0.0	0.00125	0.00104	0.00012	0.00021	0.00691	0.00009	0.00085	0.00002	0.00409	0.00479	1.25	0.4723	3.0	0.31626	17.3
	01J	1700.0	0.0	0.00490	0.00253	0.00006	0.00013	0.00699	0.00010	0.00112	0.00002	0.01665	0.00727	-1.69	1.5603	-0.5	-0.42576	6.1
Weighted Mean Age														6.84368 ±0.15173				
Integrated														6.65999 ±6.65019				
Plateau												Steps	A-H		7.62513 ±0.17163			
Isochron														6.06692 ±6.05673				

Sample: MB07-046				Lab #: 58773		J: 9.89E-04 ±9.89E-04				IC: 1.000 ±0.0000									
Material: Wr				IGSN:															
	N	Temp	<sup>40</sup> Ar	<sup>40</sup> Ar	± 1σ	<sup>39</sup> Ar	± 1σ	<sup>38</sup> Ar	± 1σ	<sup>37</sup> Ar	± 1σ	<sup>36</sup> Ar	± 1σ	Age	± 1σ	% <sup>40</sup> Ar*	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>		
		(C)		(10 <sup>3</sup> fA)		(10 <sup>3</sup> fA)							(10 <sup>-2</sup> fA)	(Ma)					
	01L	550.0	0.0	-0.00038	0.00068	-4.76E-0	0.00002	-0.00027	0.00003	-0.00004	0.00002	-0.00134	0.00266	-428.01	453.3388	-2.6	-213.658	7	
	01M	625.0	0.0	0.00375	0.00309	0.00007	0.00013	0.00327	0.00006	-0.00059	0.00010	0.01199	0.00829	5.52	0.6442	5.6	3.10231	-	
P	01N	700.0	0.0	0.00106	0.00118	0.00009	0.00017	0.00173	0.00005	0.00994	0.00010	0.00237	0.00446	7.10	0.2538	34.8	3.98825	0	
P	01O	750.0	0.0	0.00070	0.00105	0.00009	0.00018	0.00147	0.00005	0.01116	0.00008	0.00110	0.00376	7.49	0.2191	54.7	4.20916	0	
P	01P	800.0	0.0	0.00062	0.00104	0.00009	0.00016	0.00124	0.00005	0.00985	0.00011	0.00087	0.00369	7.74	0.2265	60.0	4.34954	0	
P	01Q	875.0	0.0	0.00069	0.00101	0.00009	0.00017	0.00121	0.00005	0.01102	0.00011	0.00110	0.00384	7.58	0.2333	53.9	4.25918	0	
P	01R	975.0	0.0	0.00076	0.00110	0.00006	0.00012	0.00103	0.00005	0.00966	0.00012	0.00177	0.00413	7.29	0.3719	31.8	4.09336	0	
P	01S	1075.0	0.0	0.00086	0.00128	0.00005	0.00010	0.00109	0.00004	0.00876	0.00009	0.00222	0.00441	7.73	0.4870	24.2	4.34147	0	
P	01T	1150.0	0.0	0.00069	0.00105	0.00003	0.00009	0.00079	0.00004	0.01051	0.00010	0.00201	0.00423	6.89	0.7922	15.7	3.87131	0	
	01U	1250.0	0.0	0.00364	0.00263	0.00017	0.00024	0.00440	0.00008	0.00933	0.00010	0.01062	0.00663	5.27	0.2034	14.0	2.95823	1	
	01V	1450.0	0.0	0.00040	0.00094	0.00002	0.00008	0.00047	0.00004	0.00050	0.00015	0.00120	0.00396	3.77	1.0291	10.9	2.11500	2	
	01W	1700.0	0.0	-0.00010	0.00079	4.28E-06	0.00004	-7.81E-0	0.00003	0.00663	0.00006	-0.00037	0.00324	7.10	4.0200	-17.3	3.99006	3	
Weighted Mean Age														6.94167 ±0.09331					
Integrated														6.69522 ±6.68378					
Plateau												Steps	C-I	7.48971 ±0.10804					
Isochron														7.49343 ±7.47789					

Sample: MB07-084				Lab #: 58624		J: 2.22E-03 ±2.22E-03				IC: 1.000 ±0.0000								
Material: Groundmass concentrate				IGSN:														
N	Temp (C)	<sup>40</sup> Ar	<sup>40</sup> Ar (10 <sup>3</sup> fA)	± 1σ	<sup>39</sup> Ar (10 <sup>3</sup> fA)	± 1σ	<sup>38</sup> Ar	± 1σ	<sup>37</sup> Ar	± 1σ	<sup>36</sup> Ar	± 1σ	Age (Ma)	± 1σ	% <sup>40</sup> Ar*	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	K/Ca	
	01A	550.0	0.0	0.00269	0.00215	0.00003	0.00009	0.14150	0.00044	0.00802	0.00010	0.00878	0.00612	14.09	2.4340	3.9	3.52323	0.5
P	01B	625.0	0.0	0.00047	0.00066	0.00016	0.00026	0.01501	0.00012	0.03180	0.00018	0.00052	0.00508	8.13	0.3758	69.5	2.02937	0.6
P	01C	700.0	0.0	0.00082	0.00104	0.00040	0.00062	0.01021	0.00010	0.06601	0.00030	0.00029	0.00235	7.63	0.0745	91.8	1.90607	0.7
P	01D	750.0	0.0	0.00077	0.00070	0.00040	0.00049	0.00706	0.00010	0.06481	0.00029	0.00015	0.00210	7.41	0.0650	96.6	1.84909	0.8
P	01E	800.0	0.0	0.00063	0.00078	0.00033	0.00044	0.00525	0.00008	0.06547	0.00021	0.00016	0.00222	7.43	0.0845	95.7	1.85497	0.6
P	01F	875.0	0.0	0.00059	0.00082	0.00030	0.00046	0.00464	0.00006	0.07249	0.00027	0.00021	0.00222	7.44	0.0930	93.3	1.85678	0.5
P	01G	975.0	0.0	0.00036	0.00068	0.00017	0.00024	0.00292	0.00005	0.06526	0.00028	0.00022	0.00250	7.60	0.1841	87.3	1.89847	0.3
Weighted Mean Age													7.49043 ±0.03753					
Integrated													7.66135 ±7.64537					
Plateau											Steps	B-G	7.48390 ±0.03834					
Isochron													7.20621 ±7.19184					

Sample: AF-217plag			Lab #: 61611			J: 4.87E-03 ±4.87E-03			IC <sup>1</sup> : 1.000 ±0.0000									
Material: Plagioclase				IGSN:														
N	Power	<sup>40</sup> Ar	<sup>40</sup> Ar	± 1σ	<sup>39</sup> Ar	± 1σ	<sup>38</sup> Ar	± 1σ	<sup>37</sup> Ar	± 1σ	<sup>36</sup> Ar	± 1σ	Age	± 1σ	% <sup>40</sup> Ar*	<sup>40</sup> Ar*/ <sup>39</sup> Ar <sub>K</sub>	K/Ca	
	(W)		(10 <sup>3</sup> fA)		(10 <sup>3</sup> fA)							(10 <sup>-2</sup> fA)	(Ma)					
01A	19.0	0.0	0.04035	0.04656	0.00024	0.01864	0.19962	0.03569	0.15236	0.07281	0.13873	0.16677	-21.48	18.5903	-1.4	-2.42956	0.2	
01B	20.0	0.0	0.03350	0.03848	0.00014	0.01789	0.12766	0.03284	0.11997	0.07242	0.11576	0.12307	-41.30	23.9409	-2.0	-4.64710	0.1	
P 01C	21.0	0.0	0.02809	0.04272	0.00026	0.02082	0.25963	0.03894	0.14786	0.07027	0.09286	0.12547	24.05	12.5553	2.6	2.75528	0.2	
P 01D	22.0	0.0	0.03704	0.03739	0.00359	0.01813	0.36460	0.03206	3.97579	0.06718	0.12027	0.12665	7.67	0.9242	8.4	0.87447	8.9	
P 01E	25.0	0.0	0.04998	0.04359	0.04909	0.02271	0.67882	0.03365	55.68721	0.06833	0.10422	0.12126	7.50	0.0649	83.7	0.85521	8.7	
P 01F	30.0	0.0	0.05803	0.04446	0.06730	0.02688	0.81370	0.03944	76.74111	0.07186	0.11036	0.16037	7.41	0.0624	97.6	0.84452	8.6	
P 01G	35.0	0.0	0.03735	0.04437	0.04387	0.02646	0.51902	0.03952	48.61322	0.11680	0.06618	0.11610	7.53	0.0701	100.6	0.85892	8.9	
P 01H	40.0	0.0	0.03559	0.04167	0.04186	0.02219	0.55025	0.03533	45.96571	0.09046	0.06444	0.10230	7.41	0.0647	99.0	0.84462	9.0	
P 01I	45.0	0.0	0.02903	0.04227	0.03432	0.02198	0.37702	0.03651	37.39149	0.06831	0.05183	0.11041	7.41	0.0847	99.6	0.84552	9.0	
P 01J	50.0	0.0	0.02496	0.04065	0.02974	0.02229	0.33150	0.03418	31.95668	0.06768	0.04344	0.10071	7.43	0.0893	100.6	0.84740	9.2	
P 01K	60.0	0.0	0.02922	0.03878	0.03457	0.02097	0.43664	0.03143	36.91216	0.06885	0.05072	0.09050	7.44	0.0692	100.1	0.84861	9.2	
P 01L	75.0	0.0	0.02968	0.04026	0.03261	0.02107	0.40948	0.03427	35.21053	0.07732	0.05425	0.08691	7.55	0.0707	94.3	0.86063	9.1	
Weighted Mean Age													7.46033 ±0.02492					
Integrated													7.43135 ±7.41615					
Plateau											Steps	C-L	7.44825 ±0.02662					
Isochron													3.47860 ±3.47525					

IC Factor<sup>1</sup>: H1/CDD intercalibration, P: plateau step

Constants used

Atmospheric argon ratios

( <sup>40</sup> Ar/ <sup>36</sup> Ar) <sub>A</sub>	295.5 ±0.5	Nier (1950)
( <sup>40</sup> Ar/ <sup>38</sup> Ar) <sub>A</sub>	1.58E+03 ±2.0	Nier (1950)

Interferring isotope production ratios

( <sup>40</sup> Ar/ <sup>39</sup> Ar) <sub>K</sub>	0.0081 ±6.80E-05
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$(^{38}\text{Ar}/^{39}\text{Ar})_{\text{K}}$	0.0130 ±0.0
$(^{37}\text{Ar}/^{39}\text{Ar})_{\text{K}}$	0.0 ±0.0
$(^{39}\text{Ar}/^{37}\text{Ar})_{\text{Ca}}$	0.0007 ±7.80E-06
$(^{38}\text{Ar}/^{37}\text{Ar})_{\text{Ca}}$	4.00E-05 ±2.00E-06
$(^{36}\text{Ar}/^{37}\text{Ar})_{\text{Ca}}$	0.0003 ±2.00E-07

Decay constants

$^{40}\text{K} \lambda_{\text{E}}$	4.96E-10 ±9.30E-13 a <sup>-1</sup>
$^{40}\text{K} \lambda_{\beta}$	5.81E-11 ±1.60E-13 a <sup>-1</sup>
$^{39}\text{Ar}$	7.07E-06 ±0.0 a <sup>-1</sup>
$^{37}\text{Ar}$	0.0198 ±0.0 a <sup>-1</sup>