

Step	³⁹ Ar ¹	±	³⁹ Ar/ ³⁹ Ar ²	±	³⁹ Ar/ ³⁹ Ar ²	±	³⁹ Ar/ ³⁹ Ar ²	±	³⁹ Ar/ ³⁹ Ar ²	±	³⁹ Ar/ ³⁹ Ar ²	±	³⁹ Ar/ ³⁹ Ar ²	±	% ³⁹ Ar ³	% ³⁹ Ar	Age (Ma)	±σ (Ma)
Step	(counts/sec)		(counts/sec)		(counts/sec)		(counts/sec)		(counts/sec)		(counts/sec)		(counts/sec)					
Sample: ALT-13_Lab 07s0622																		
					200-250 μm		J-Value: 0.010620±0.000051		1 grain									
1	499	27	0.037530	0.016721	2.549	0.543	0.3062	0.0286	13.597	0.758	2.65	4.92	19.5	0.1	50.1	91.7		
2	1402	24	0.011017	0.005189	0.479	0.140	0.0104	0.0061	11.634	0.254	8.39	1.53	72.2	0.3	153.9	27.2		
3	66161	72	0.000490	0.000118	0.005	0.002	0.0010	0.0002	9.960	0.014	9.79	0.04	98.5	14.5	178.4	1.0		
4	15174	26	0.000207	0.000028	0.041	0.014	0.0083	0.0008	10.528	0.022	10.44	0.16	99.4	3.3	189.8	2.8		
5	277712	204	0.000205	0.000028	0.004	0.001	0.0110	0.0001	10.319	0.008	10.23	0.01	99.4	60.9	186.1	0.9		
6	93563	94	0.000411	0.000073	0.005	0.002	0.0104	0.0002	11.424	0.012	11.28	0.02	98.9	20.5	204.1	0.1		
7	1686	23	0.001816	0.000470	0.130	0.104	0.0018	0.0005	12.701	0.177	12.15	1.27	95.8	0.4	218.9	21.6		
																Total gas age:	188.7	0.9
Sample: ALT-13_Lab 07s0731																		
					200-250 μm		J-Value: 0.010880±0.000055		5 grains									
1	59976	85	0.000227	0.000318	0.033	0.083	0.0076	0.0003	12.018	0.019	11.93	0.10	99.5	7.5	220.1	0.2		
2	61745	106	0.000551	0.000318	0.029	0.140	0.0071	0.0003	11.856	0.021	11.67	0.10	98.6	7.7	215.6	0.2		
3	9102	38	0.000469	0.000271	0.020	0.580	-0.0036	-0.0016	10.615	0.046	10.45	0.76	98.7	1.1	194.3	13.5		
4	74943	82	0.000412	0.000082	0.104	0.037	0.0105	0.0002	10.064	0.012	9.92	0.03	98.9	9.3	185.0	1.0		
5	46226	64	0.000387	0.000236	0.045	0.040	0.0108	0.0003	10.652	0.017	10.51	0.07	99.0	5.8	195.4	1.6		
6	47293	83	0.000196	0.000161	0.031	0.042	0.0099	0.0003	10.718	0.020	10.64	0.05	99.5	5.9	197.5	1.3		
7	26648	45	0.000102	0.000310	0.022	0.077	0.0099	0.0004	10.889	0.022	10.83	0.09	99.7	3.3	201.0	1.9		
8	8206	47	0.000699	0.000852	1.567	0.273	0.0057	0.0015	11.479	0.069	11.36	0.26	99.1	1.0	210.3	4.7		
9	173301	167	0.000105	0.000028	0.128	0.010	0.0105	0.0002	11.235	0.013	11.19	0.02	99.8	21.6	207.2	1.0		
10	31724	108	0.000926	0.000255	0.542	0.063	0.0097	0.0004	11.193	0.041	10.93	0.09	97.9	3.9	202.8	1.8		
11	217303	249	0.000020	0.000040	0.043	0.006	0.0109	0.0001	11.371	0.014	11.34	0.02	100.0	27.0	209.9	1.1		
12	47018	88	0.000048	0.000187	0.145	0.030	0.0109	0.0002	11.179	0.024	11.15	0.06	100.0	5.9	206.5	1.4		
																Total gas age:	205.7	1.0
Sample: DÜ-9_Lab 09s0672																		
					200-250 μm		J-Value: 0.007944±0.000017		5 grains									
1	99079	102	0.000626	0.000041	0.485	0.004	0.0141	0.0001	15.195	0.020	15.02	0.02	99.0	11.3	203.4	0.5		
2	73963	56	0.000393	0.000041	0.473	0.006	0.0106	0.0001	15.836	0.018	15.73	0.02	99.5	8.4	212.4	0.5		
3	125523	88	0.000445	0.000033	0.472	0.006	0.0107	0.0001	17.341	0.031	17.22	0.03	99.4	14.3	231.3	0.6		
4	163094	119	0.000590	0.000018	0.475	0.004	0.0128	0.0001	15.115	0.017	14.95	0.02	99.1	18.6	202.5	0.5		
5	8431	15	0.002990	0.000477	0.579	0.061	0.0215	0.0008	17.928	0.034	17.06	0.14	95.3	1.0	229.3	1.9		
6	124704	117	0.000346	0.000028	0.501	0.005	0.0117	0.0001	17.279	0.032	17.19	0.03	99.6	14.2	230.9	0.6		
7	63720	126	0.000499	0.000079	0.563	0.006	0.0139	0.0002	14.423	0.030	14.29	0.04	99.2	7.3	194.0	0.6		
8	24514	56	0.000758	0.000190	0.681	0.016	0.0120	0.0005	14.512	0.035	14.41	0.07	98.8	2.8	194.3	0.9		
9	192996	102	0.000396	0.000026	0.502	0.005	0.0114	0.0001	15.543	0.009	15.44	0.01	99.5	22.0	208.7	0.5		
																Total gas age:	212.4	0.5
Sample: BDG-9_Lab 09s0638																		
					200-250 μm		J-Value: 0.007917±0.000018		5 grains									
1	22004	203	0.001588	0.000030	0.564	0.003	0.0147	0.0001	11.433	0.014	10.98	0.02	96.2	61.9	150.4	0.4		
2	3773	16	0.005691	0.001128	0.368	0.035	0.0308	0.0018	12.725	0.074	11.04	0.34	86.9	1.1	151.2	4.5		
3	3225	27	0.002671	0.001963	0.876	0.048	0.0141	0.0015	11.170	0.095	10.42	0.59	93.4	0.9	143.0	7.8		
4	5833	20	0.003121	0.001022	0.620	0.042	0.0094	0.0011	10.295	0.038	9.39	0.30	91.4	1.6	129.4	4.1		
5	50900	56	0.001383	0.000064	0.814	0.007	0.0127	0.0002	10.667	0.013	10.29	0.02	96.7	14.3	141.3	0.4		
6	19356	35	0.001952	0.000198	1.305	0.015	0.0142	0.0003	10.913	0.021	10.40	0.06	95.5	5.4	142.8	0.9		
7	39294	40	0.000897	0.000095	2.098	0.013	0.0135	0.0002	9.762	0.011	9.62	0.03	98.7	11.1	132.4	0.5		
8	3776	18	0.015885	0.001241	60.085	4.01	0.0581	0.0015	13.621	0.075	13.39	0.39	94.9	1.1	181.8	5.0		
9	2878	18	0.044142	0.001126	123.288	1.285	0.1253	0.0023	17.831	0.113	14.02	0.37	72.8	0.8	189.9	4.8		
10	6506	48	0.137320	0.002425	208.740	1.696	0.2510	0.0028	40.867	0.314	16.22	0.77	34.6	1.8	218.0	9.8		
																Total gas age:	147.5	0.4
Sample: BDG-92_Lab 09s0618																		
					200-250 μm		J-Value: 0.007917±0.000018		1 grain									
1	1980	16	0.003296	0.002352	0.526	0.067	0.0331	0.0025	9.983	0.087	9.02	0.70	90.6	1.6	124.4	9.3		
2	5165	18	0.000330	0.000749	0.727	0.027	0.0731	0.0017	10.711	0.042	10.64	0.23	99.5	4.1	145.9	3.0		
3	30199	44	0.000316	0.000136	0.641	0.005	0.0191	0.0004	9.623	0.016	9.55	0.04	99.5	23.7	131.5	0.6		
4	776	14	0.002671	0.004460	0.800	0.174	0.0150	0.0075	11.173	0.216	10.42	1.33	93.4	0.6	142.9	17.6		
5	675	10	0.009218	0.004959	0.806	0.204	0.0053	0.0074	11.525	0.202	8.83	1.48	76.8	0.5	121.9	19.7		
6	13712	28	0.001400	0.000339	0.715	0.018	0.0147	0.0008	9.952	0.022	9.56	0.10	96.3	10.8	131.7	1.4		
7	49068	75	0.000545	0.000106	0.621	0.005	0.0153	0.0002	9.659	0.016	9.52	0.04	98.8	38.5	131.0	0.5		
8	5313	15	0.006968	0.000804	3.110	0.026	0.0329	0.0009	14.541	0.045	12.69	0.24	87.2	4.2	172.7	3.2		
9	6036	15	0.003903	0.000374	15.952	0.103	0.0728	0.0016	13.652	0.038	13.67	0.12	99.3	4.7	185.4	1.6		
10	2753	18	0.038386	0.002063	107.695	0.814	0.3730	0.0054	18.488	0.128	15.29	0.66	77.3	2.2	206.2	8.4		
11	11764	56	0.057703	0.000767	101.506	0.514	0.2152	0.0022	23.806	0.127	14.37	0.25	56.7	9.2	194.4	3.2		
																Total gas age:	142.6	0.6
Sample: BDG-84_Lab 09s0662																		
					200-250 μm		J-Value: 0.007930±0.000018		8 grains									
1	12442	25	0.000701	0.000405	0.565	0.018	0.0241	0.0007	13.708	0.029	13.52	0.12	98.8	55.0	183.7	1.6		
2	2909	22	0.000656	0.001048	1.744	0.065	0.1879	0.0038	12.675	0.103	12.58	0.33	99.4	12.9	171.6	4.3		
3	414	11	0.001518	0.010155	3.600</													