

Grain No.	Isotopic ratios		Age (Ma)		Th/U
	$^{206}\text{Pb}/^{238}\text{U}$	Error σ	$^{207}\text{Pb}/^{235}\text{U}$	Error σ	
Aka-01 (GPS: N35° 30' 09.41", E138° 06' 17.29")					
Aka-01-001	0.0368 ± 0.0368	0.2622 ± 0.0091	232.7 ± 2.3	236.4 ± 8.2	0.66
Aka-01-002	0.3644 ± 0.3644	5.6546 ± 0.0941	2003.1 ± 16.0	1924.4 ± 32.0	0.41
Aka-01-003	0.3385 ± 0.3385	5.4117 ± 0.0764	1879.2 ± 13.8	1886.6 ± 26.6	0.17
Aka-01-004	0.0292 ± 0.0292	0.2153 ± 0.0109	185.3 ± 2.4	198.0 ± 10.0	0.32
Aka-01-005	0.0334 ± 0.0334	0.2495 ± 0.0089	211.7 ± 2.1	226.1 ± 8.1	0.78
Aka-01-006	0.3543 ± 0.3543	6.3436 ± 0.0732	1955.2 ± 14.4	2024.4 ± 23.4	0.09
Aka-01-007	0.3491 ± 0.3491	5.7664 ± 0.0953	1930.2 ± 16.2	1941.3 ± 32.1	0.38
Aka-01-008	0.0219 ± 0.0219	0.1415 ± 0.0080	139.7 ± 2.2	134.3 ± 7.6	1.08
Aka-01-009	0.0290 ± 0.0290	0.1973 ± 0.0077	184.3 ± 2.4	182.8 ± 7.2	0.20
Aka-01-010	0.3513 ± 0.3513	5.5739 ± 0.0950	1940.7 ± 22.0	1912.0 ± 32.6	0.23
Aka-01-011	0.0320 ± 0.0320	0.2274 ± 0.0161	203.1 ± 4.0	208.0 ± 14.7	0.40
Aka-01-012	0.3346 ± 0.3346	5.3820 ± 0.1095	1860.7 ± 24.6	1881.9 ± 38.3	0.14
Aka-01-013	0.4078 ± 0.4078	6.9085 ± 0.1322	2204.8 ± 28.4	2099.7 ± 40.2	0.50
Aka-01-014	0.0297 ± 0.0297	0.2237 ± 0.0128	188.4 ± 3.2	205.0 ± 11.7	0.26
Aka-01-015	0.5472 ± 0.5472	12.3380 ± 0.1913	2813.5 ± 24.2	2630.4 ± 40.8	0.34
Aka-01-016	0.4505 ± 0.4505	6.9371 ± 0.1305	2397.3 ± 21.6	2103.3 ± 39.6	0.48
Aka-01-017	0.3417 ± 0.3417	5.4129 ± 0.0876	1895.0 ± 16.1	1886.8 ± 30.5	0.31
Aka-01-018	0.0309 ± 0.0309	0.2255 ± 0.0094	196.4 ± 2.3	206.5 ± 8.6	0.38
Aka-01-019	0.0317 ± 0.0317	0.2100 ± 0.0098	201.4 ± 2.4	193.5 ± 9.0	0.32
Aka-01-020	0.0415 ± 0.0415	0.2973 ± 0.0089	262.1 ± 2.6	264.3 ± 7.9	0.37
Aka-01-021	0.3447 ± 0.3447	5.6331 ± 0.0860	1909.4 ± 15.9	1921.1 ± 29.3	0.09
Aka-01-022	0.0167 ± 0.0167	0.1569 ± 0.0167	106.5 ± 2.7	148.0 ± 15.8	0.58
Aka-01-023	0.0182 ± 0.0182	0.1158 ± 0.0065	116.3 ± 1.6	111.3 ± 6.2	0.52
Aka-01-024	0.0301 ± 0.0301	0.1993 ± 0.0111	191.4 ± 2.7	184.6 ± 10.2	0.56
Aka-01-025	0.0272 ± 0.0272	0.1819 ± 0.0053	173.3 ± 1.8	169.7 ± 4.9	0.27
Aka-01-026	0.3259 ± 0.3259	5.1831 ± 0.0814	1818.5 ± 17.3	1849.8 ± 29.0	0.35
Aka-01-027	0.3121 ± 0.3121	4.8850 ± 0.0772	1751.1 ± 16.6	1799.6 ± 28.4	0.14
Aka-01-028	0.3245 ± 0.3245	5.0077 ± 0.0794	1811.9 ± 17.2	1820.6 ± 28.9	0.24
Aka-01-029	0.2518 ± 0.2518	3.8982 ± 0.0659	1447.9 ± 14.0	1613.2 ± 27.3	0.26
Aka-01-030	0.0308 ± 0.0308	0.2303 ± 0.0226	195.5 ± 4.7	210.4 ± 20.6	0.60
Aka-01-031	0.0332 ± 0.0332	0.2333 ± 0.0090	210.4 ± 3.1	212.9 ± 8.2	0.49
Aka-01-032	0.0285 ± 0.0285	0.1966 ± 0.0061	181.2 ± 2.5	182.3 ± 5.7	0.24
Aka-01-033	0.0299 ± 0.0299	0.2105 ± 0.0124	189.7 ± 3.3	194.0 ± 11.4	0.63
Aka-01-034	0.0363 ± 0.0363	0.2636 ± 0.0123	230.1 ± 3.6	237.5 ± 11.1	0.80
Aka-01-035	0.0272 ± 0.0272	0.1971 ± 0.0070	173.0 ± 2.5	182.7 ± 6.5	0.47
Aka-01-036	0.0206 ± 0.0206	0.1478 ± 0.0164	131.6 ± 3.4	139.9 ± 15.5	1.64
Aka-01-037	0.0371 ± 0.0371	0.2812 ± 0.0100	234.8 ± 3.4	251.6 ± 9.0	0.59
Aka-01-038	0.2271 ± 0.2271	3.3459 ± 0.0813	1319.4 ± 18.1	1491.8 ± 36.2	0.30
Aka-01-039	0.3253 ± 0.3253	5.2528 ± 0.0707	1815.5 ± 15.4	1861.2 ± 25.0	0.18
Aka-01-040	0.3522 ± 0.3522	5.5912 ± 0.0765	1945.2 ± 16.6	1914.7 ± 26.2	0.09
Aka-01-041	0.3375 ± 0.3375	5.3075 ± 0.0834	1874.7 ± 16.6	1870.0 ± 29.4	0.13
Aka-01-042	0.3237 ± 0.3237	5.1776 ± 0.0872	1808.0 ± 16.4	1848.9 ± 31.1	0.52
Aka-01-043	0.3305 ± 0.3305	5.2351 ± 0.0737	1840.6 ± 15.8	1858.3 ± 26.1	0.50
Aka-01-044	0.1110 ± 0.1110	0.1032 ± 0.0256	67.8 ± 6.7	719.5 ± 17.9	1.66
Aka-01-045	0.4001 ± 0.4001	6.9432 ± 0.1185	2169.3 ± 20.0	2104.1 ± 35.9	0.24
Aka-01-046	0.0312 ± 0.0312	0.2128 ± 0.0177	198.1 ± 3.8	195.9 ± 16.3	0.47
Aka-01-047	0.3071 ± 0.3071	4.9367 ± 0.0766	1726.3 ± 11.6	1808.5 ± 28.1	0.15
Aka-01-048	0.3258 ± 0.3258	5.1861 ± 0.0753	1818.0 ± 11.8	1850.3 ± 26.9	0.19

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Aka-01-049	0.4070 ± 0.0025	7.5491 ± 0.0965	2201.1 ± 13.6	2178.8 ± 27.8	0.82
Aka-01-050	0.3771 ± 0.0024	5.9090 ± 0.0846	2062.8 ± 13.3	1962.5 ± 28.1	0.34
Aka-01-051	0.0438 ± 0.0006	0.8511 ± 0.0364	276.1 ± 4.1	625.2 ± 26.7	0.62
Aka-01-052	0.3331 ± 0.0022	5.2003 ± 0.0795	1853.5 ± 12.3	1852.6 ± 28.3	0.46
Aka-01-053	0.0317 ± 0.0005	0.2202 ± 0.0170	201.3 ± 3.3	202.0 ± 15.6	0.87
Aka-01-054	0.3459 ± 0.0023	5.3956 ± 0.0823	1914.9 ± 12.7	1884.1 ± 28.7	0.17
Aka-01-055	0.3409 ± 0.0021	5.2072 ± 0.0718	1890.9 ± 11.7	1853.7 ± 25.6	0.09
Aka-01-056	0.3429 ± 0.0020	5.3261 ± 0.0642	1900.7 ± 11.1	1873.0 ± 22.6	0.50
Aka-01-057	0.4150 ± 0.0023	8.7280 ± 0.0902	2237.6 ± 12.6	2309.9 ± 23.9	0.16
Aka-01-058	0.0310 ± 0.0004	0.2274 ± 0.0125	196.6 ± 2.6	208.0 ± 11.4	0.32
Aka-01-059	0.0310 ± 0.0004	0.2309 ± 0.0133	196.8 ± 2.7	211.0 ± 12.1	0.47
Aka-01-060	0.0312 ± 0.0004	0.2354 ± 0.0139	197.8 ± 2.8	214.7 ± 12.7	0.44
Aka-01-061	0.0244 ± 0.0003	0.1641 ± 0.0091	155.4 ± 2.0	154.3 ± 8.6	0.54
Aka-01-062	0.3411 ± 0.0028	5.3146 ± 0.0786	1891.9 ± 15.4	1871.1 ± 27.7	0.20
Aka-01-063	0.0302 ± 0.0004	0.2030 ± 0.0091	191.8 ± 2.3	187.7 ± 8.4	0.68
Aka-01-064	0.0343 ± 0.0004	0.2567 ± 0.0106	217.4 ± 2.5	232.0 ± 9.6	0.56
Aka-01-065	0.3728 ± 0.0030	6.5067 ± 0.0889	2042.5 ± 16.3	2046.7 ± 27.9	0.90
Aka-01-066	0.3279 ± 0.0030	5.0536 ± 0.0995	1828.0 ± 16.6	1828.3 ± 36.0	0.22
Aka-01-067	0.0229 ± 0.0004	0.1423 ± 0.0099	145.9 ± 2.3	135.1 ± 9.4	1.05
Aka-01-068	0.0300 ± 0.0003	0.2236 ± 0.0079	190.5 ± 2.0	204.9 ± 7.2	0.35
Aka-01-069	0.0252 ± 0.0003	0.2856 ± 0.0105	160.7 ± 1.9	255.1 ± 9.3	0.44
Aka-01-070	0.0436 ± 0.0006	0.3006 ± 0.0184	275.1 ± 3.9	266.9 ± 16.3	0.52
Aka-01-071	0.3024 ± 0.0026	4.6749 ± 0.0956	1703.1 ± 14.8	1762.7 ± 36.0	0.64
Aka-01-072	0.3543 ± 0.0029	5.8919 ± 0.1019	1954.9 ± 15.8	1960.0 ± 33.9	0.15
Aka-01-073	0.0314 ± 0.0005	0.3127 ± 0.0192	199.3 ± 3.2	276.3 ± 16.9	0.36
Aka-01-074	0.0289 ± 0.0002	0.2094 ± 0.0049	183.9 ± 1.6	193.0 ± 4.6	0.37
Aka-01-075	0.3454 ± 0.0027	5.4920 ± 0.0922	1912.8 ± 15.2	1899.3 ± 31.9	0.10
Aka-01-076	0.3929 ± 0.0034	6.1987 ± 0.1274	2136.4 ± 18.7	2004.2 ± 41.2	0.54
Aka-01-077	0.0671 ± 0.0008	0.8395 ± 0.0283	418.7 ± 4.7	618.8 ± 20.9	0.32
Aka-01-078	0.0304 ± 0.0004	0.2040 ± 0.0087	192.8 ± 2.3	188.5 ± 8.0	0.57
Aka-01-079	0.4336 ± 0.0042	7.7957 ± 0.1243	2322.0 ± 22.4	2207.6 ± 35.2	0.29
Aka-01-080	0.0192 ± 0.0005	0.2814 ± 0.0230	122.8 ± 3.1	251.8 ± 20.6	1.06
Aka-01-081	0.3957 ± 0.0041	7.3763 ± 0.1383	2149.2 ± 22.3	2158.0 ± 40.5	0.40
Aka-01-082	0.3835 ± 0.0034	7.7820 ± 0.0910	2092.5 ± 18.4	2206.1 ± 25.8	0.67
Aka-01-083	0.0310 ± 0.0004	0.2214 ± 0.0097	196.8 ± 2.5	203.1 ± 8.9	0.36
Aka-01-084	0.0300 ± 0.0003	0.2151 ± 0.0063	190.5 ± 2.0	197.8 ± 5.8	0.48
Aka-01-085	0.3313 ± 0.0030	5.2580 ± 0.0647	1844.7 ± 16.5	1862.0 ± 22.9	0.14
Aka-01-086	0.0312 ± 0.0004	0.2625 ± 0.0120	198.2 ± 2.7	236.6 ± 10.8	0.71
Aka-01-087	0.0424 ± 0.0006	0.3005 ± 0.0102	267.8 ± 3.7	266.8 ± 9.0	0.54
Aka-01-088	0.0359 ± 0.0005	0.2742 ± 0.0116	227.6 ± 3.4	246.0 ± 10.4	0.45
Aka-01-089	0.0407 ± 0.0006	0.3073 ± 0.0096	257.2 ± 3.5	272.1 ± 8.5	0.67
Aka-01-090	0.3703 ± 0.0047	5.7753 ± 0.1028	2030.9 ± 25.7	1942.6 ± 34.6	0.24
Aka-01-091	0.0491 ± 0.0012	0.3311 ± 0.0354	308.9 ± 7.7	290.4 ± 31.1	0.58
Aka-01-092	0.0276 ± 0.0004	0.2188 ± 0.0092	175.4 ± 2.6	200.9 ± 8.4	0.55
Aka-01-093	0.3401 ± 0.0042	5.3561 ± 0.0814	1887.0 ± 23.1	1877.8 ± 28.5	0.17
Aka-01-094	0.4492 ± 0.0054	10.6325 ± 0.1472	2391.8 ± 28.9	2491.5 ± 34.5	0.37
Aka-01-095	0.0417 ± 0.0004	0.2922 ± 0.0074	263.3 ± 2.6	260.3 ± 6.6	0.42
Aka-01-096	0.0363 ± 0.0007	0.2266 ± 0.0212	230.1 ± 4.7	207.4 ± 19.4	0.67
Aka-01-097	0.0328 ± 0.0004	0.2402 ± 0.0120	207.7 ± 2.8	218.6 ± 11.0	0.53

Isotopic ratios				Age (Ma)				Th/U	Isotopic ratios				Age (Ma)				Th/U
Grain No.	²⁰⁶ Pb/ ²³⁸ U	Error 1σ	²⁰⁷ Pb/ ²³⁵ U	Error 1σ	²⁰⁶ Pb/ ²³⁸ U	Error 1σ	²⁰⁷ Pb/ ²³⁵ U		Error 1σ	Grain No.	²⁰⁶ Pb/ ²³⁸ U	Error 1σ	²⁰⁷ Pb/ ²³⁵ U	Error 1σ	²⁰⁶ Pb/ ²³⁸ U	Error 1σ	
Aka-01-098	0.3684 ± 0.0036		5.9435 ± 0.1176		2021.9 ± 19.5		1967.5 ± 38.9	0.23	Aka-01-147	0.0299 ± 0.0004		0.2296 ± 0.0104		190.1 ± 2.6		209.8 ± 9.5	0.70
Aka-01-099	0.3604 ± 0.0034		5.7112 ± 0.1102		1983.9 ± 19.0		1933.0 ± 37.3	0.14	Aka-01-148	0.0449 ± 0.0006		0.3246 ± 0.0140		282.9 ± 3.6		285.4 ± 12.3	0.49
Aka-01-100	0.0309 ± 0.0004		0.3113 ± 0.0105		195.9 ± 2.3		275.2 ± 9.3	0.49	Aka-01-149	0.0333 ± 0.0004		0.2260 ± 0.0095		211.0 ± 2.6		206.9 ± 8.7	0.35
Aka-01-101	0.0486 ± 0.0007		0.3790 ± 0.0194		306.0 ± 4.3		326.3 ± 16.7	0.46	Aka-01-150	0.0321 ± 0.0003		0.2208 ± 0.0083		203.5 ± 1.8		202.6 ± 7.6	0.60
Aka-01-102	0.3341 ± 0.0031		5.4701 ± 0.0991		1858.4 ± 17.3		1895.8 ± 34.4	0.27	Aka-01-151	0.0432 ± 0.0003		0.2915 ± 0.0086		272.4 ± 2.0		259.8 ± 7.7	0.35
Aka-01-103	0.3594 ± 0.0034		6.1667 ± 0.1185		1979.2 ± 19.0		1999.7 ± 38.4	0.31	Aka-01-152	0.0434 ± 0.0005		0.2683 ± 0.0130		273.9 ± 2.9		241.3 ± 11.7	0.63
Aka-01-104	0.0182 ± 0.0003		0.1803 ± 0.0096		116.4 ± 1.8		168.3 ± 9.0	0.47	Aka-01-153	0.1470 ± 0.0009		1.4335 ± 0.0284		884.4 ± 5.5		903.0 ± 17.9	0.31
Aka-01-105	0.4016 ± 0.0033		7.4431 ± 0.1060		2176.4 ± 18.0		2166.1 ± 30.8	0.48	Aka-01-154	0.4138 ± 0.0021		9.2511 ± 0.1076		2232.2 ± 11.1		2363.1 ± 27.5	0.54
Aka-01-106	0.3499 ± 0.0030		5.4928 ± 0.0897		1934.4 ± 16.5		1899.4 ± 31.0	0.19	Aka-01-155	0.0267 ± 0.0002		0.1600 ± 0.0057		169.7 ± 1.4		150.7 ± 5.4	0.41
Aka-01-107	0.0331 ± 0.0003		0.2240 ± 0.0068		209.8 ± 2.0		205.3 ± 6.2	0.51	Aka-01-156	0.4179 ± 0.0021		9.7974 ± 0.1155		2250.7 ± 11.3		2415.8 ± 28.5	0.66
Aka-01-108	0.0260 ± 0.0003		0.1814 ± 0.0075		165.7 ± 1.9		169.3 ± 7.0	0.50	Aka-01-157	0.0308 ± 0.0003		0.2002 ± 0.0070		195.8 ± 1.6		185.3 ± 6.5	0.24
Aka-01-109	0.3510 ± 0.0029		5.6816 ± 0.0842		1939.5 ± 16.1		1928.5 ± 28.6	0.46									
Aka-01-110	0.4780 ± 0.0042		9.3233 ± 0.1537		2518.5 ± 22.1		2370.2 ± 39.1	0.25									
Aka-01-111	0.3475 ± 0.0034		5.4676 ± 0.1215		1922.6 ± 18.8		1895.5 ± 42.1	0.61	Aka-02-001	0.0321 ± 0.0012		0.2451 ± 0.0221		203.9 ± 7.6		222.6 ± 20.1	0.74
Aka-01-112	0.3387 ± 0.0031		5.5291 ± 0.1428		1880.6 ± 17.0		1905.1 ± 49.2	0.65	Aka-02-002	0.3462 ± 0.0029		6.0204 ± 0.1096		1916.6 ± 16.1		1978.7 ± 36.0	0.21
Aka-01-113	0.0281 ± 0.0003		0.1904 ± 0.0070		178.7 ± 1.6		176.9 ± 6.5	0.44	Aka-02-003	0.0317 ± 0.0007		0.2259 ± 0.0140		201.0 ± 4.4		206.8 ± 12.9	0.43
Aka-01-114	0.3557 ± 0.0021		5.5078 ± 0.0802		1961.8 ± 11.7		1901.7 ± 27.7	0.27	Aka-02-004	0.3443 ± 0.0029		5.2724 ± 0.0975		1907.5 ± 15.9		1864.3 ± 34.5	0.29
Aka-01-115	0.0305 ± 0.0004		0.2255 ± 0.0109		193.4 ± 2.2		206.5 ± 10.0	0.35	Aka-02-005	0.2557 ± 0.0023		3.9026 ± 0.0793		1467.6 ± 13.0		1614.2 ± 32.8	0.18
Aka-01-116	0.0286 ± 0.0005		0.2223 ± 0.0157		181.9 ± 3.0		203.8 ± 14.4	0.40	Aka-02-006	0.0319 ± 0.0007		0.1967 ± 0.0128		202.2 ± 4.4		182.3 ± 11.9	0.38
Aka-01-117	0.0284 ± 0.0004		0.2070 ± 0.0144		180.4 ± 2.8		191.0 ± 13.3	0.42	Aka-02-007	0.0321 ± 0.0005		0.2383 ± 0.0106		203.4 ± 3.0		217.0 ± 9.7	0.18
Aka-01-118	0.3022 ± 0.0017		5.0615 ± 0.0655		1702.4 ± 9.5		1829.6 ± 23.7	0.11	Aka-02-008	0.3283 ± 0.0026		5.1581 ± 0.0669		1830.3 ± 14.6		1845.7 ± 23.9	0.13
Aka-01-119	0.0326 ± 0.0002		0.2296 ± 0.0058		206.9 ± 1.4		209.9 ± 5.3	0.53	Aka-02-009	0.0509 ± 0.0006		0.4926 ± 0.0156		320.0 ± 3.8		406.6 ± 12.9	0.42
Aka-01-120	0.0325 ± 0.0005		0.2018 ± 0.0144		206.4 ± 3.3		186.6 ± 13.3	0.24	Aka-02-010	0.0308 ± 0.0005		0.2172 ± 0.0100		195.3 ± 3.4		199.6 ± 9.2	0.12
Aka-01-121	0.0202 ± 0.0002		0.1342 ± 0.0066		128.8 ± 1.6		127.9 ± 6.3	0.49	Aka-02-011	0.3621 ± 0.0057		5.8363 ± 0.1548		1992.2 ± 31.3		1951.8 ± 51.8	0.15
Aka-01-122	0.0286 ± 0.0003		0.2093 ± 0.0053		182.0 ± 1.6		193.0 ± 4.9	0.27	Aka-02-012	0.0272 ± 0.0005		0.1834 ± 0.0085		173.0 ± 3.0		171.0 ± 8.0	0.69
Aka-01-123	0.0178 ± 0.0004		0.1116 ± 0.0109		113.6 ± 2.3		107.4 ± 10.5	0.77	Aka-02-013	0.0468 ± 0.0009		0.3764 ± 0.0196		294.8 ± 5.5		324.3 ± 16.9	0.60
Aka-01-124	0.4122 ± 0.0035		8.0547 ± 0.1345		2225.2 ± 18.7		2237.1 ± 37.3	0.39	Aka-02-014	0.0377 ± 0.0006		0.2488 ± 0.0087		238.4 ± 3.8		225.6 ± 7.9	0.15
Aka-01-125	0.0284 ± 0.0003		0.1988 ± 0.0057		180.7 ± 1.7		184.1 ± 5.3	0.27	Aka-02-015	0.3065 ± 0.0050		4.6111 ± 0.1347		1723.4 ± 27.9		1751.2 ± 51.2	0.27
Aka-01-126	0.0396 ± 0.0004		0.2801 ± 0.0093		250.4 ± 2.5		250.8 ± 8.3	0.44	Aka-02-016	0.3558 ± 0.0046		5.6578 ± 0.1013		1962.4 ± 25.2		1924.9 ± 34.5	0.16
Aka-01-127	0.0674 ± 0.0006		0.5222 ± 0.0151		420.3 ± 3.9		426.6 ± 12.3	0.57	Aka-02-017	0.3447 ± 0.0045		5.3086 ± 0.0999		1909.2 ± 24.7		1870.2 ± 35.2	0.47
Aka-01-128	0.3336 ± 0.0029		5.4429 ± 0.0997		1855.8 ± 16.0		1891.6 ± 34.6	1.28	Aka-02-018	0.1236 ± 0.0021		1.7048 ± 0.0702		751.2 ± 12.5		1010.3 ± 41.6	2.13
Aka-01-129	0.0380 ± 0.0003		0.2735 ± 0.0057		240.2 ± 1.9		245.5 ± 5.1	0.44	Aka-02-019	0.3471 ± 0.0049		5.3240 ± 0.1419		1920.6 ± 27.3		1872.7 ± 49.9	0.63
Aka-01-130	0.3355 ± 0.0025		5.2182 ± 0.0664		1865.2 ± 14.0		1855.5 ± 23.6	0.10	Aka-02-020	0.0372 ± 0.0009		0.3215 ± 0.0282		235.4 ± 5.5		283.1 ± 24.8	0.98
Aka-01-131	0.3328 ± 0.0026		5.2722 ± 0.0728		1852.2 ± 14.3		1864.3 ± 25.7	0.19	Aka-02-021	0.0296 ± 0.0004		0.2021 ± 0.0061		187.8 ± 2.6		186.9 ± 5.6	0.10
Aka-01-132	0.0382 ± 0.0004		0.2911 ± 0.0121		241.6 ± 2.8		259.4 ± 10.8	0.44	Aka-02-022	0.0303 ± 0.0005		0.2004 ± 0.0086		192.2 ± 2.9		185.5 ± 8.0	0.26
Aka-01-133	0.0339 ± 0.0003		0.2545 ± 0.0073		215.0 ± 2.0		230.2 ± 6.6	0.77	Aka-02-023	0.0279 ± 0.0004		0.1835 ± 0.0084		177.4 ± 2.8		171.0 ± 7.8	0.38
Aka-01-134	0.3707 ± 0.0029		6.0191 ± 0.0905		2032.5 ± 16.1		1978.5 ± 29.7	0.27	Aka-02-024	0.2073 ± 0.0028		3.1052 ± 0.0609		1214.4 ± 16.6		1433.9 ± 28.1	0.14
Aka-01-135	0.3232 ± 0.0026		5.1312 ± 0.0771		1805.2 ± 14.3		1841.2 ± 27.7	0.26	Aka-02-025	0.0198 ± 0.0003		0.1127 ± 0.0065		126.3 ± 2.1		108.4 ± 6.3	0.55
Aka-01-136	0.0189 ± 0.0002		0.1244 ± 0.0037		120.4 ± 1.3		119.0 ± 3.6	0.66	Aka-02-026	0.3613 ± 0.0050		5.5417 ± 0.1114		1988.4 ± 27.3		1907.0 ± 38.3	0.29
Aka-01-137	0.4000 ± 0.0037		6.8336 ± 0.1039		2168.9 ± 20.2		2090.0 ± 31.8	0.44	Aka-02-027	0.0349 ± 0.0006		0.2398 ± 0.0144		221.0 ± 3.9		218.2 ± 13.1	0.89
Aka-01-138	0.3975 ± 0.0037		6.3275 ± 0.0979		2157.4 ± 20.1		2022.2 ± 31.3	0.13	Aka-02-028	0.0206 ± 0.0004		0.1551 ± 0.0147		131.2 ± 2.8		146.4 ± 13.8	0.62
Aka-01-139	0.3029 ± 0.0028		4.8303 ± 0.0741		1705.4 ± 15.9		1790.1 ± 27.5	0.19	Aka-02-029	0.0243 ± 0.0004		0.1750 ± 0.0118		154.8 ± 2.4		163.8 ± 11.0	0.73
Aka-01-140	0.0319 ± 0.0005		0.2330 ± 0.0125		202.7 ± 2.9		212.7 ± 11.4	0.27	Aka-02-030	0.3587 ± 0.0027		5.8502 ± 0.0841		1975.8 ± 14.8		1953.8 ± 28.1	0.24
Aka-01-141	0.0400 ± 0.0005		0.2903 ± 0.0131		252.7 ± 3.3		258.8 ± 11.6	0.51	Aka-02-031	0.3052 ± 0.0024		4.7066 ± 0.0805		1717.2 ± 13.7		1768.4 ± 30.2	0.47
Aka-01-142	0.0452 ± 0.0007		0.3577 ± 0.0205		284.7 ± 4.4		310.5 ± 17.8	0.65	Aka-02-032	0.3643 ± 0.0028		5.7318 ± 0.0867		2002.4 ± 15.2		1936.1 ± 29.3	0.11
Aka-01-143	0.0403 ± 0.0007		0.3123 ± 0.0196		254.5 ± 4.2		275.9 ± 17.3	0.32	Aka-02-033	0.3736 ± 0.0028		6.8976 ± 0.0961		2046.6 ± 15.3		2098.3 ± 29.2	0.14
Aka-01-144	0.0295 ± 0.0003		0.1961 ± 0.0066		187.2 ± 2.1		181.8 ± 6.1	0.31	Aka-02-034	0.1899 ± 0.0014		2.7809 ± 0.0416		1120.6 ± 8.4		1350.4 ± 20.2	0.18
Aka-01-145	0.3428 ± 0.0035		5.3728 ± 0.1046		1900.3 ± 19.5		1880.5 ± 36.6	0.26	Aka-02-035	0.0321 ± 0.0004		0.2574 ± 0.0141		203.6 ± 2.8		232.5 ± 12.7	0.38
Aka-01-146	0.3603 ± 0.0035		7.0857 ± 0.1165		1983.8 ± 19.4		2122.2 ± 34.9	0.33	Aka-02-036	0.0435 ± 0.0004		0.3033 ± 0.0095		274.5 ± 2.5		269.0 ± 8.4	0.18

Aka-02 (GPS: N35° 28' 46.25", E138° 06' 42.58")

Grain No.	Isotopic ratios			Age (Ma)			Th/U
	$^{206}\text{Pb}/^{238}\text{U}$	Error 1σ		$^{207}\text{Pb}/^{235}\text{U}$	Error 1σ		
Aka-02-037	0.3423 ± 0.0030		5.3785 ± 0.1039	1897.6 ± 16.5	1881.4 ± 36.3	0.59	
Aka-02-038	0.4104 ± 0.0034		8.0002 ± 0.1285	2216.7 ± 18.1	2231.0 ± 35.8	0.66	
Aka-02-039	0.0365 ± 0.0004	0.2488 ± 0.0112	231.3 ± 2.7	225.6 ± 10.2	0.21		
Aka-02-040	0.0356 ± 0.0005	0.2437 ± 0.0147	225.7 ± 3.3	221.4 ± 13.4	0.26		
Aka-02-041	0.3657 ± 0.0028	5.7695 ± 0.0837	2009.4 ± 15.6	1941.8 ± 28.2	0.13		
Aka-02-042	0.0346 ± 0.0005	0.2558 ± 0.0133	219.4 ± 2.9	231.2 ± 12.1	0.35		
Aka-02-043	0.0235 ± 0.0004	0.1752 ± 0.0141	149.9 ± 2.8	163.9 ± 13.2	1.26		
Aka-02-044	0.0376 ± 0.0006	0.2583 ± 0.0171	237.8 ± 3.7	233.3 ± 15.4	0.98		
Aka-02-045	0.2454 ± 0.0022	3.8952 ± 0.0640	1414.6 ± 12.8	1612.6 ± 26.5	0.13		
Aka-02-046	0.0392 ± 0.0004	0.2658 ± 0.0097	248.0 ± 2.7	239.3 ± 8.8	0.46		
Aka-02-047	0.0410 ± 0.0004	0.3143 ± 0.0067	258.7 ± 2.4	277.5 ± 5.9	0.10		
Aka-02-048	0.0208 ± 0.0002	0.1487 ± 0.0057	132.9 ± 1.5	140.7 ± 5.4	0.48		
Aka-02-049	0.0379 ± 0.0005	0.2992 ± 0.0124	239.8 ± 2.9	265.8 ± 11.0	0.32		
Aka-02-050	0.0384 ± 0.0006	0.2706 ± 0.0190	242.8 ± 4.0	243.2 ± 17.1	0.38		
Aka-02-051	0.3505 ± 0.0031	5.4113 ± 0.0836	1936.8 ± 17.2	1886.6 ± 29.2	0.25		
Aka-02-052	0.0261 ± 0.0003	0.2017 ± 0.0085	166.1 ± 2.0	186.5 ± 7.8	0.12		
Aka-02-053	0.0179 ± 0.0002	0.1104 ± 0.0068	114.1 ± 1.6	106.4 ± 6.6	0.84		
Aka-02-054	0.3381 ± 0.0027	5.3297 ± 0.0852	1877.6 ± 15.2	1873.6 ± 29.9	0.13		
Aka-02-055	0.3599 ± 0.0028	6.1562 ± 0.0875	1981.7 ± 15.5	1998.2 ± 28.4	0.13		
Aka-02-056	0.1112 ± 0.0010	1.5479 ± 0.0321	679.9 ± 6.0	949.6 ± 19.7	0.32		
Aka-02-057	0.0372 ± 0.0004	0.2744 ± 0.0089	235.5 ± 2.3	246.2 ± 8.0	0.41		
Aka-02-058	0.0396 ± 0.0004	0.2802 ± 0.0087	250.3 ± 2.4	250.8 ± 7.8	0.17		
Aka-02-059	0.0312 ± 0.0004	0.2857 ± 0.0133	198.0 ± 2.6	255.2 ± 11.9	0.25		
Aka-02-060	0.0320 ± 0.0004	0.2297 ± 0.0120	202.7 ± 2.6	209.9 ± 10.9	0.10		
Aka-02-061	0.3822 ± 0.0041	6.0625 ± 0.1037	2086.6 ± 22.3	1984.8 ± 33.9	0.34		
Aka-02-062	0.3816 ± 0.0041	5.9850 ± 0.1053	2083.6 ± 22.4	1973.6 ± 34.7	0.12		
Aka-02-063	0.0275 ± 0.0003	0.1858 ± 0.0069	174.6 ± 2.2	173.1 ± 6.4	0.40		
Aka-02-064	0.0297 ± 0.0004	0.1941 ± 0.0085	188.9 ± 2.5	180.1 ± 7.9	0.21		
Aka-02-065	0.0329 ± 0.0005	0.2222 ± 0.0117	208.7 ± 3.1	203.7 ± 10.7	0.78		
Aka-02-066	0.0442 ± 0.0009	0.2971 ± 0.0286	278.6 ± 5.9	264.1 ± 25.4	0.60		
Aka-02-067	0.4162 ± 0.0046	8.1185 ± 0.1595	2243.3 ± 24.9	2244.2 ± 44.1	0.60		
Aka-02-068	0.0386 ± 0.0006	0.2929 ± 0.0178	243.9 ± 4.0	260.8 ± 15.8	0.65		
Aka-02-069	0.2000 ± 0.0022	3.6892 ± 0.0741	1175.2 ± 13.1	1569.0 ± 31.5	0.42		
Aka-02-070	0.4063 ± 0.0045	7.9070 ± 0.1497	2197.9 ± 24.1	2220.4 ± 42.0	0.75		
Aka-02-071	0.0267 ± 0.0004	0.1789 ± 0.0088	170.1 ± 2.4	167.1 ± 8.2	1.79		
Aka-02-072	0.0435 ± 0.0005	0.3166 ± 0.0107	274.3 ± 3.4	279.3 ± 9.4	0.43		
Aka-02-073	0.0294 ± 0.0003	0.2034 ± 0.0063	186.8 ± 1.7	188.0 ± 5.8	0.29		
Aka-02-074	0.4463 ± 0.0033	9.5195 ± 0.1328	2379.0 ± 17.6	2389.3 ± 33.3	0.14		
Aka-02-075	0.4390 ± 0.0031	9.1787 ± 0.1218	2346.1 ± 16.8	2355.9 ± 31.7	0.21		
Aka-02-076	0.3138 ± 0.0022	4.9132 ± 0.0659	1759.5 ± 12.4	1804.5 ± 24.2	0.11		
Aka-02-077	0.3675 ± 0.0031	5.8711 ± 0.1095	2017.7 ± 17.0	1956.9 ± 36.5	0.61		
Aka-02-078	0.0366 ± 0.0006	0.3170 ± 0.0215	231.8 ± 3.9	279.6 ± 19.0	0.66		
Aka-02-079	0.0351 ± 0.0004	0.2443 ± 0.0094	222.5 ± 2.3	222.0 ± 8.5	0.43		
Aka-02-080	0.2170 ± 0.0017	3.2351 ± 0.0466	1266.1 ± 9.8	1465.6 ± 21.1	0.14		
Aka-02-081	0.0294 ± 0.0005	0.2303 ± 0.0153	186.9 ± 3.1	210.4 ± 14.0	0.29		
Aka-02-082	0.0198 ± 0.0003	0.2186 ± 0.0128	126.1 ± 2.2	200.7 ± 11.7	1.16		
Aka-02-083	0.2905 ± 0.0027	4.6969 ± 0.0781	1644.1 ± 15.3	1766.6 ± 29.4	0.11		
Aka-02-084	0.0291 ± 0.0003	0.2126 ± 0.0080	184.8 ± 2.1	195.7 ± 7.4	0.46		
Aka-02-085	0.3925 ± 0.0037	6.3967 ± 0.1068	2134.4 ± 20.1	2031.7 ± 33.9	0.19		

Grain No.	Isotopic ratios			Age (Ma)			Th/U
	$^{206}\text{Pb}/^{238}\text{U}$	Error 1σ		$^{207}\text{Pb}/^{235}\text{U}$	Error 1σ		
Aka-02-086	0.0303 ± 0.0003	0.2164 ± 0.0076	192.3 ± 2.1	198.9 ± 7.0	0.36		
Aka-02-087	0.0318 ± 0.0005	0.2227 ± 0.0127	201.5 ± 2.9	204.1 ± 11.7	0.71		
Aka-02-088	0.3392 ± 0.0029	5.5869 ± 0.0735	1882.6 ± 16.3	1914.0 ± 25.2	0.22		
Aka-02-089	0.2367 ± 0.0017	3.5681 ± 0.0548	1369.7 ± 10.1	1542.4 ± 23.7	0.16		
Aka-02-090	0.3294 ± 0.0025	5.0566 ± 0.0845	1835.5 ± 14.1	1828.8 ± 30.6	0.15		
Aka-02-091	0.0287 ± 0.0003	0.2080 ± 0.0062	182.6 ± 1.6	191.9 ± 5.8	0.16		
Aka-02-092	0.0291 ± 0.0003	0.2190 ± 0.0047	184.6 ± 2.0	201.1 ± 8.0	0.42		
Aka-02-093	0.2803 ± 0.0021	4.3871 ± 0.0695	1592.7 ± 12.0	1709.8 ± 27.1	0.17		
Aka-02-094	0.0331 ± 0.0003	0.2406 ± 0.0089	210.0 ± 2.1	218.9 ± 8.1	0.55		
Aka-02-095	0.0317 ± 0.0003	0.2679 ± 0.0079	201.1 ± 1.8	241.0 ± 7.1	0.32		
Aka-02-096	0.0336 ± 0.0005	0.2104 ± 0.0147	212.8 ± 3.2	193.9 ± 13.6	0.74		
Aka-02-097	0.0305 ± 0.0004	0.2206 ± 0.0070	193.6 ± 2.3	202.4 ± 6.4	1.17		
Aka-02-098	0.3546 ± 0.0037	5.5663 ± 0.0844	1956.5 ± 20.2	1910.8 ± 29.0	0.13		
Aka-02-099	0.0338 ± 0.0004	0.2442 ± 0.0073	214.1 ± 2.5	221.9 ± 6.7	0.21		
Aka-02-100	0.0194 ± 0.0003	0.1448 ± 0.0098	123.7 ± 2.2	137.3 ± 9.3	0.52		
Aka-02-101	0.0713 ± 0.0008	0.5101 ± 0.0162	443.8 ± 5.2	418.5 ± 13.3	0.39		
Aka-02-102	0.0684 ± 0.0008	0.5033 ± 0.0170	426.5 ± 5.2	413.9 ± 14.0	0.32		
Aka-02-103	0.3155 ± 0.0033	5.5815 ± 0.0870	1767.7 ± 18.4	1913.2 ± 29.8	0.77		
Aka-02-104	0.0801 ± 0.0011	0.6551 ± 0.0272	496.8 ± 6.7	511.6 ± 21.2	0.32		
Aka-02-105	0.3268 ± 0.0026	5.1991 ± 0.0899	1822.9 ± 14.4	1852.4 ± 32.0	0.83		
Aka-02-106	0.0311 ± 0.0004	0.2717 ± 0.0127	197.2 ± 2.4	244.1 ± 11.4	0.64		
Aka-02-107	0.0411 ± 0.0006	0.3263 ± 0.0218	259.9 ± 4.1	286.8 ± 19.1	0.55		
Aka-02-108	0.0206 ± 0.0002	0.1598 ± 0.0076	131.6 ± 1.6	150.5 ± 7.2	0.82		
Aka-02-109	0.0305 ± 0.0005	0.2158 ± 0.0152	193.5 ± 3.0	198.4 ± 13.9	0.53		
Aka-02-110	0.2803 ± 0.0020	4.3154 ± 0.0563	1593.0 ± 11.2	1696.2 ± 22.1	0.11		
Aka-02-111	0.0783 ± 0.0006	0.5877 ± 0.0128	485.8 ± 3.7	469.4 ± 10.2	0.63		
Aka-02-112	0.0316 ± 0.0003	0.2405 ± 0.0095	200.8 ± 2.1	218.8 ± 8.7	0.26		
Aka-02-113	0.2789 ± 0.0020	4.3508 ± 0.0594	1586.0 ± 11.4	1703.0 ± 23.3	0.11		
Aka-02-114	0.2364 ± 0.0025	3.5791 ± 0.0764	1368.0 ± 14.8	1544.9 ± 33.0	0.23		
Aka-02-115	0.0286 ± 0.0003	0.2450 ± 0.0084	182.0 ± 2.2	222.5 ± 7.6	0.63		
Aka-02-116	0.0300 ± 0.0004	0.2064 ± 0.0083	190.8 ± 2.4	190.5 ± 7.6	0.13		
Aka-02-117	0.0236 ± 0.0003	0.1789 ± 0.0087	150.4 ± 2.1	167.1 ± 8.1	0.80		
Aka-02-118	0.4257 ± 0.0044	8.1790 ± 0.1508	2286.1 ± 23.9	2250.9 ± 41.5	0.19		
Aka-02-119	0.2957 ± 0.0030	4.5727 ± 0.0837	1669.8 ± 17.1	1744.3 ± 31.9	0.19		
Aka-02-120	0.0356 ± 0.0004	0.2616 ± 0.0078	225.2 ± 2.5	236.0 ± 7.0	0.13		
Aka-02-121	0.3451 ± 0.0036	5.4061 ± 0.1004	1911.1 ± 19.7	1885.7 ± 35.0	0.22		
Aka-02-122	0.0344 ± 0.0004	0.2408 ± 0.0091	218.0 ± 2.7	219.1 ± 8.3	0.70		
Aka-02-123	0.0264 ± 0.0003	0.1917 ± 0.0096	168.0 ± 1.8	178.1 ± 8.9	0.37		
Aka-02-124	0.3554 ± 0.0020	5.7163 ± 0.1065	1960.3 ± 11.1	1933.8 ± 36.0	0.26		
Aka-02-125	0.0308 ± 0.0002	0.2259 ± 0.0067	195.3 ± 1.3	206.8 ± 6.1	0.10		
Aka-02-126	0.4083 ± 0.0022	7.4027 ± 0.1300	2207.3 ± 12.1	2161.2 ± 37.9	0.45		
Aka-02-127	0.0370 ± 0.0004	0.2529 ± 0.0140	234.5 ± 2.7	229.0 ± 12.6	0.54		
Aka-02-128	0.3382 ± 0.0018	5.3500 ± 0.0937	1877.9 ± 9.9	1876.8 ± 32.9	0.46		
Aka-02-129	0.0458 ± 0.0009	0.2665 ± 0.0283	288.4 ± 5.5	239.9 ± 25.5	0.48		
Aka-02-130	0.0287 ± 0.0004	0.2071 ± 0.0126	182.7 ± 2.4	191.1 ± 11.6	0.57		
Aka-02-131	0.0302 ± 0.0005	0.2098 ± 0.0158	191.8 ± 2.9	193.4 ± 14.5	1.04		
Aka-02-132	0.0530 ± 0.0011	0.2739 ± 0.0291	332.9 ± 6.7	245.8 ± 26.1	1.03		
Aka-02-133	0.0306 ± 0.0004	0.2231 ± 0.0115	194.1 ± 2.6	204.5 ± 10.5	0.87		
Aka-02-134	0.0201 ± 0.0004	0.1349 ± 0.0115	128.2 ± 2.4	128.5 ± 11.0	0.28		

Grain No.	Isotopic ratios		Age (Ma)		Th/U		
	$^{206}\text{Pb}/^{238}\text{U}$	Error 1σ	$^{207}\text{Pb}/^{235}\text{U}$	Error 1σ			
Aka-02-135	0.3293	± 0.0026	5.1576	± 0.0688	1835.2 ± 14.6	1845.6 ± 24.6	0.16
Aka-02-136	0.3418	± 0.0027	5.4664	± 0.0707	1895.1 ± 15.0	1895.3 ± 24.5	0.31
Aka-02-137	0.0290	± 0.0003	0.2073	± 0.0089	184.2 ± 2.2	191.3 ± 8.2	0.46
Aka-02-138	0.0357	± 0.0005	0.2620	± 0.0131	226.4 ± 2.9	236.3 ± 11.8	0.46
Aka-02-139	0.3343	± 0.0028	5.2438	± 0.0830	1859.2 ± 15.6	1859.7 ± 29.4	0.20
Aka-02-140	0.0413	± 0.0028	0.2985	± 0.0333	261.0 ± 17.7	265.2 ± 29.6	0.90
Aka-02-141	0.0285	± 0.0005	0.1935	± 0.0076	181.4 ± 3.4	179.6 ± 7.1	0.47
Aka-02-142	0.3665	± 0.0025	6.1312	± 0.0867	2013.1 ± 13.6	1994.6 ± 28.2	0.13
Aka-02-143	0.3525	± 0.0026	5.6490	± 0.0887	1946.4 ± 14.6	1923.5 ± 30.2	0.42
Aka-02-144	0.3035	± 0.0024	4.7863	± 0.0787	1708.6 ± 13.5	1782.4 ± 29.3	0.24
Aka-02-145	0.0292	± 0.0012	0.2009	± 0.0143	185.5 ± 7.4	185.8 ± 13.2	0.37
Aka-02-146	0.0420	± 0.0007	0.3150	± 0.0111	265.0 ± 4.4	278.0 ± 9.8	0.45
Aka-02-147	0.3680	± 0.0028	6.3794	± 0.0934	2019.8 ± 15.4	1958.1 ± 31.1	0.20
Aka-02-148	0.0540	± 0.0006	0.4022	± 0.0075	338.9 ± 3.7	343.2 ± 6.4	0.22
Aka-02-149	0.0309	± 0.0004	0.2048	± 0.0060	196.1 ± 2.3	189.2 ± 5.5	0.60
Aka-02-150	0.3778	± 0.0041	6.0379	± 0.0992	2066.2 ± 22.4	1981.3 ± 32.5	0.11
Aka-02-151	0.0415	± 0.0006	0.3238	± 0.0130	262.0 ± 3.5	284.8 ± 11.5	0.17
Aka-02-152	0.3896	± 0.0042	7.6629	± 0.1132	2121.2 ± 22.6	2192.2 ± 32.4	0.32
Aka-02-153	0.0649	± 0.0008	0.5013	± 0.0160	405.3 ± 5.0	412.5 ± 13.2	0.52
Aka-02-154	0.3443	± 0.0036	5.4485	± 0.0784	1907.1 ± 20.1	1892.4 ± 27.2	0.13
Aka-02-155	0.0261	± 0.0004	0.1788	± 0.0079	166.4 ± 2.3	167.1 ± 7.4	1.12
Aka-03 (GPS: N35° 28' 30.58", E138° 09' 11.52")							
Aka-03-001	0.0172	± 0.0003	0.1094	± 0.0072	109.7 ± 1.8	105.4 ± 6.9	0.42
Aka-03-002	0.3340	± 0.0035	5.2988	± 0.0905	1857.6 ± 19.5	1868.6 ± 31.9	0.35
Aka-03-003	0.0184	± 0.0003	0.1804	± 0.0116	117.8 ± 2.1	168.4 ± 10.8	0.33
Aka-03-004	0.0442	± 0.0009	0.2901	± 0.0245	279.0 ± 5.5	258.6 ± 21.8	0.54
Aka-03-005	0.0167	± 0.0005	0.1190	± 0.0164	106.5 ± 3.1	114.2 ± 15.7	0.34
Aka-03-006	0.0180	± 0.0003	0.1388	± 0.0069	115.1 ± 1.7	131.9 ± 6.6	0.29
Aka-03-007	0.3969	± 0.0047	6.9135	± 0.1380	2154.7 ± 25.3	2100.3 ± 41.9	1.32
Aka-03-008	0.0336	± 0.0006	0.2513	± 0.0152	213.3 ± 3.5	227.6 ± 13.8	0.55
Aka-03-009	0.3217	± 0.0037	5.0194	± 0.1062	1797.8 ± 20.6	1822.5 ± 38.6	0.53
Aka-03-010	0.0174	± 0.0002	0.1216	± 0.0041	111.2 ± 1.4	116.5 ± 3.9	0.75
Aka-03-011	0.3509	± 0.0037	5.6568	± 0.0979	1938.8 ± 20.7	1924.7 ± 33.3	0.34
Aka-03-012	0.0198	± 0.0003	0.1249	± 0.0057	126.4 ± 1.7	119.5 ± 5.4	0.50
Aka-03-013	0.0251	± 0.0005	0.1449	± 0.0138	159.8 ± 3.4	137.4 ± 13.0	0.92
Aka-03-014	0.0478	± 0.0005	0.3489	± 0.0088	301.0 ± 3.4	303.9 ± 7.7	0.11
Aka-03-015	0.4021	± 0.0044	7.8532	± 0.1451	2178.8 ± 24.0	2214.2 ± 40.9	0.42
Aka-03-016	0.0164	± 0.0002	0.1232	± 0.0045	104.7 ± 1.3	117.9 ± 4.3	0.44
Aka-03-017	0.0210	± 0.0003	0.1509	± 0.0075	134.1 ± 1.6	142.7 ± 7.1	1.02
Aka-03-018	0.0288	± 0.0007	0.1850	± 0.0245	182.8 ± 4.4	172.4 ± 22.9	0.41
Aka-03-019	0.3401	± 0.0026	5.5211	± 0.0963	1887.2 ± 14.4	1903.8 ± 33.2	0.16
Aka-03-020	0.0490	± 0.0012	0.3910	± 0.0465	308.2 ± 7.6	335.1 ± 39.8	0.30
Aka-03-021	0.0167	± 0.0002	0.1096	± 0.0048	106.7 ± 1.2	105.6 ± 4.6	0.39
Aka-03-022	0.3565	± 0.0026	6.6032	± 0.1005	1965.8 ± 14.2	2059.7 ± 31.3	0.15
Aka-03-023	0.0348	± 0.0008	0.2339	± 0.0302	220.7 ± 5.4	213.4 ± 27.5	0.61
Aka-03-024	0.3429	± 0.0031	5.2612	± 0.1255	1900.7 ± 17.3	1862.5 ± 44.4	0.65
Aka-03-025	0.0161	± 0.0005	0.1501	± 0.0173	102.8 ± 3.0	142.0 ± 16.4	0.47
Aka-03-026	0.0158	± 0.0003	0.1051	± 0.0049	101.0 ± 1.6	101.5 ± 4.8	0.64

Grain No.	Isotopic ratios		Age (Ma)		Th/U		
	$^{206}\text{Pb}/^{238}\text{U}$	Error 1σ	$^{207}\text{Pb}/^{235}\text{U}$	Error 1σ			
Aka-03-027	0.0167	± 0.0004	0.1300	± 0.0105	106.5 ± 2.3	124.1 ± 10.0	0.45
Aka-03-028	0.3693	± 0.0053	5.9083	± 0.1491	2026.1 ± 29.3	1962.4 ± 49.5	0.48
Aka-03-029	0.0170	± 0.0003	0.1171	± 0.0068	108.8 ± 1.9	112.4 ± 6.6	0.38
Aka-03-030	0.3438	± 0.0047	5.6020	± 0.1111	1904.8 ± 26.0	1916.3 ± 38.0	0.12
Aka-03-031	0.0159	± 0.0004	0.1243	± 0.0130	101.5 ± 2.6	119.0 ± 12.4	0.40
Aka-03-032	0.0162	± 0.0003	0.1071	± 0.0059	103.8 ± 1.8	103.3 ± 5.7	0.33
Aka-03-033	0.0164	± 0.0002	0.1172	± 0.0051	104.6 ± 1.2	112.5 ± 4.9	0.35
Aka-03-034	0.0355	± 0.0004	0.2366	± 0.0113	224.8 ± 2.7	215.6 ± 10.3	0.57
Aka-03-035	0.0317	± 0.0004	0.2243	± 0.0128	201.3 ± 2.8	205.5 ± 11.7	0.54
Aka-03-036	0.0311	± 0.0003	0.2186	± 0.0085	197.4 ± 2.1	200.7 ± 7.8	0.14
Aka-03-037	0.0162	± 0.0002	0.1099	± 0.0060	103.9 ± 1.4	105.9 ± 5.8	0.60
Aka-03-038	0.0172	± 0.0003	0.1413	± 0.0110	109.9 ± 2.1	134.2 ± 10.5	0.50
Aka-03-039	0.0277	± 0.0003	0.2162	± 0.0077	176.2 ± 1.8	198.8 ± 7.0	0.47
Aka-03-040	0.0420	± 0.0006	0.3010	± 0.0194	265.2 ± 4.0	267.2 ± 17.3	0.50
Aka-03-041	0.3263	± 0.0025	5.1197	± 0.0887	1820.3 ± 14.1	1839.3 ± 31.9	0.31
Aka-03-042	0.0202	± 0.0005	0.1617	± 0.0178	128.7 ± 3.1	152.2 ± 16.7	0.59
Aka-03-043	0.0168	± 0.0002	0.1203	± 0.0052	107.2 ± 1.4	115.3 ± 5.0	0.36
Aka-03-044	0.0164	± 0.0003	0.1075	± 0.0064	104.9 ± 1.6	103.7 ± 6.2	0.31
Aka-03-045	0.0172	± 0.0002	0.1163	± 0.0059	110.2 ± 1.5	111.7 ± 5.6	0.73
Aka-03-046	0.0423	± 0.0009	0.2731	± 0.0292	266.9 ± 5.9	245.2 ± 26.2	0.40
Aka-03-047	0.0164	± 0.0002	0.1024	± 0.0053	105.1 ± 1.5	99.0 ± 5.1	0.70
Aka-03-048	0.3443	± 0.0037	5.4088	± 0.1088	1907.4 ± 20.3	1886.2 ± 38.0	0.14
Aka-03-049	0.0302	± 0.0005	0.2218	± 0.0136	191.6 ± 3.0	203.4 ± 12.5	0.37
Aka-03-050	0.0162	± 0.0002	0.1181	± 0.0062	103.8 ± 1.5	113.4 ± 6.0	0.34
Aka-03-051	0.0637	± 0.0006	0.4830	± 0.0090	397.9 ± 3.9	400.1 ± 7.5	0.18
Aka-03-052	0.1367	± 0.0014	1.3373	± 0.0273	825.8 ± 8.4	862.0 ± 17.6	0.53
Aka-03-053	0.2364	± 0.0025	3.6676	± 0.0743	1368.0 ± 14.4	1564.3 ± 31.7	0.64
Aka-03-054	0.0185	± 0.0005	0.1388	± 0.0166	118.2 ± 3.0	131.9 ± 15.8	0.51
Aka-03-055	0.0171	± 0.0002	0.1164	± 0.0047	109.6 ± 1.3	111.8 ± 4.5	0.38
Aka-03-056	0.0290	± 0.0004	0.2045	± 0.0105	184.3 ± 2.6	188.9 ± 9.7	0.57
Aka-03-057	0.0438	± 0.0006	0.2916	± 0.0193	276.1 ± 3.8	259.8 ± 17.2	0.41
Aka-03-058	0.0166	± 0.0001	0.1208	± 0.0047	106.4 ± 0.9	115.8 ± 4.5	0.26
Aka-03-059	0.0158	± 0.0002	0.1139	± 0.0064	100.8 ± 1.2	109.5 ± 6.1	0.51
Aka-03-060	0.0165	± 0.0003	0.1076	± 0.0109	105.6 ± 2.1	103.8 ± 10.5	0.37
Aka-03-061	0.0263	± 0.0003	0.1815	± 0.0083	167.5 ± 1.7	169.4 ± 7.7	0.46
Aka-03-062	0.0438	± 0.0007	0.3415	± 0.0249	276.6 ± 4.5	298.3 ± 21.7	0.49
Aka-03-063	0.0165	± 0.0002	0.1376	± 0.0081	105.2 ± 1.4	130.9 ± 7.7	0.42
Aka-03-064	0.0169	± 0.0002	0.1168	± 0.0064	107.8 ± 1.3	112.2 ± 6.1	0.40
Aka-03-065	0.3528	± 0.0014	6.9055	± 0.0869	1948.1 ± 7.6	2099.3 ± 26.4	0.19
Aka-03-066	0.0162	± 0.0003	0.1323	± 0.0099	103.3 ± 2.0	126.1 ± 9.5	0.46
Aka-03-067	0.0166	± 0.0003	0.1232	± 0.0073	106.3 ± 1.6	117.9 ± 6.9	0.56
Aka-03-068	0.3497	± 0.0048	6.1025	± 0.2248	1933.3 ± 26.4	1990.5 ± 73.3	0.64
Aka-03-069	0.0180	± 0.0003	0.1216	± 0.0081	115.1 ± 1.9	116.5 ± 7.8	0.41
Aka-03-070	0.0177	± 0.0003	0.1118	± 0.0062	112.8 ± 1.6	107.6 ± 6.0	0.76
Aka-03-071	0.0166	± 0.0003	0.1072	± 0.0067	106.1 ± 1.6	103.4 ± 6.5	0.27
Aka-03-072	0.0196	± 0.0003	0.1306	± 0.0078	125.0 ± 1.9	124.6 ± 7.4	0.76
Aka-03-073	0.0355	± 0.0005	0.2287	± 0.0115	225.0 ± 3.0	209.1 ± 10.6	0.46
Aka-03-074	0.0162	± 0.0002	0.1145	± 0.0064	103.4 ± 1.5	110.0 ± 6.1	0.77
Aka-03-075	0.4667	± 0.0044	10.3004	± 0.1868	2468.9 ± 23.0	2462.0 ± 44.7	0.53

Grain No.	Isotopic ratios			Age (Ma)			Th/U		
	$^{206}\text{Pb}/^{238}\text{U}$	Error 1σ	$^{207}\text{Pb}/^{235}\text{U}$	Error 1σ	$^{206}\text{Pb}/^{238}\text{U}$	Error 1σ			
Aka-03-076	0.0193	± 0.0003	0.1365	± 0.0079	123.2	± 1.8	129.9	± 7.6	0.87
Aka-03-077	0.0164	± 0.0002	0.1080	± 0.0043	104.9	± 1.2	104.1	± 4.2	0.42
Aka-03-078	0.0187	± 0.0004	0.1082	± 0.0118	119.6	± 2.7	104.3	± 11.3	0.87
Aka-03-079	0.3253	± 0.0031	5.1608	± 0.0998	1815.6	± 17.1	1846.1	± 35.7	0.26
Aka-03-080	0.0253	± 0.0004	0.1894	± 0.0128	161.0	± 2.7	176.1	± 11.9	0.81
Aka-03-081	0.0291	± 0.0003	0.2005	± 0.0058	184.9	± 1.9	185.6	± 5.4	0.20
Aka-03-082	0.0173	± 0.0002	0.1241	± 0.0049	110.5	± 1.3	118.8	± 4.7	0.49
Aka-03-083	0.0289	± 0.0003	0.2121	± 0.0067	183.9	± 2.0	195.3	± 6.2	0.16
Aka-03-084	0.3995	± 0.0038	7.5881	± 0.1274	2166.9	± 20.5	2183.4	± 36.7	0.21
Aka-03-085	0.0168	± 0.0003	0.1181	± 0.0094	107.2	± 2.0	113.3	± 9.1	0.46
Aka-03-086	0.0166	± 0.0003	0.1442	± 0.0101	106.1	± 2.0	136.7	± 9.6	0.60
Aka-03-087	0.0166	± 0.0003	0.1083	± 0.0068	106.4	± 1.6	104.4	± 6.6	0.45
Aka-03-088	0.0165	± 0.0003	0.1109	± 0.0081	105.7	± 1.8	106.8	± 7.8	0.57
Aka-03-089	0.0165	± 0.0002	0.1170	± 0.0066	105.3	± 1.6	112.3	± 6.3	0.45
Aka-03-090	0.0163	± 0.0002	0.1165	± 0.0045	104.0	± 1.2	111.9	± 4.3	0.39
Aka-03-091	0.0156	± 0.0003	0.1180	± 0.0080	99.7	± 1.7	113.2	± 7.6	0.36
Aka-03-092	0.0176	± 0.0002	0.1411	± 0.0054	112.4	± 1.4	134.0	± 5.2	0.29
Aka-03-093	0.3295	± 0.0049	5.1664	± 0.1020	1836.0	± 27.2	1847.0	± 36.5	0.19
Aka-03-094	0.0280	± 0.0005	0.1990	± 0.0097	177.9	± 3.1	184.3	± 9.0	0.64
Aka-03-095	0.0310	± 0.0006	0.2090	± 0.0115	196.6	± 3.6	192.7	± 10.6	0.35
Aka-03-096	0.0189	± 0.0003	0.1201	± 0.0049	120.4	± 2.0	115.1	± 4.7	0.85
Aka-03-097	0.0341	± 0.0007	0.2208	± 0.0146	216.2	± 4.2	202.5	± 13.4	0.64
Aka-03-098	0.0164	± 0.0003	0.1129	± 0.0074	104.9	± 2.1	108.6	± 7.1	0.30
Aka-03-099	0.0154	± 0.0004	0.0879	± 0.0093	98.6	± 2.4	85.6	± 9.0	0.61
Aka-03-100	0.0164	± 0.0003	0.1147	± 0.0063	105.0	± 1.9	110.3	± 6.1	0.31
Aka-03-101	0.0409	± 0.0006	0.2899	± 0.0075	258.2	± 3.9	258.5	± 6.7	0.16
Aka-03-102	0.0164	± 0.0002	0.1143	± 0.0053	104.8	± 1.3	109.9	± 5.1	0.40
Aka-03-103	0.0339	± 0.0008	0.2800	± 0.0275	214.7	± 4.9	250.7	± 24.7	0.57
Aka-03-104	0.0166	± 0.0002	0.1057	± 0.0050	106.3	± 1.3	102.0	± 4.9	0.61
Aka-03-105	0.3784	± 0.0031	7.4136	± 0.0910	2069.0	± 17.0	2162.5	± 26.6	0.30
Aka-03-106	0.3090	± 0.0030	4.7584	± 0.0963	1735.8	± 16.6	1777.5	± 36.0	0.59
Aka-03-107	0.0450	± 0.0006	0.3583	± 0.0190	283.9	± 4.0	310.9	± 16.5	0.88
Aka-03-108	0.3457	± 0.0032	5.6288	± 0.0995	1914.2	± 17.5	1920.4	± 34.0	0.26
Aka-03-109	0.0164	± 0.0002	0.1114	± 0.0065	105.0	± 1.5	107.3	± 6.3	0.34
Aka-03-110	0.0282	± 0.0004	0.1776	± 0.0124	179.0	± 2.8	165.9	± 11.6	0.22
Aka-03-111	0.0392	± 0.0005	0.2760	± 0.0104	247.6	± 3.0	247.5	± 9.3	0.74
Aka-03-112	0.0266	± 0.0004	0.1779	± 0.0100	169.1	± 2.5	166.3	± 9.4	0.68
Aka-03-113	0.0167	± 0.0002	0.1127	± 0.0060	106.6	± 1.5	108.4	± 5.7	0.32
Aka-03-114	0.4103	± 0.0040	8.4133	± 0.1150	2216.3	± 21.4	2276.5	± 31.1	0.55
Aka-03-115	0.0397	± 0.0006	0.2858	± 0.0144	251.2	± 3.6	255.2	± 12.9	0.45
Aka-03-116	0.3212	± 0.0032	5.0590	± 0.0779	1795.4	± 17.7	1829.2	± 28.2	0.13
Aka-03-117	0.0173	± 0.0003	0.1401	± 0.0098	110.8	± 2.0	133.1	± 9.3	0.32
Aka-03-118	0.0292	± 0.0006	0.2019	± 0.0148	185.3	± 3.6	186.8	± 13.7	0.90
Aka-03-119	0.0395	± 0.0005	0.2756	± 0.0103	249.9	± 3.4	247.2	± 9.3	0.76
Aka-03-120	0.0295	± 0.0004	0.2097	± 0.0079	187.2	± 2.6	193.3	± 7.3	0.29
Aka-03-121	0.0154	± 0.0003	0.1220	± 0.0092	98.3	± 2.0	116.9	± 8.8	0.61
Aka-03-122	0.3413	± 0.0043	5.4303	± 0.1240	1893.1	± 23.8	1889.6	± 43.2	0.47
Aka-03-123	0.0418	± 0.0006	0.4130	± 0.0151	264.1	± 3.8	351.0	± 12.8	0.27
Aka-03-124	0.0179	± 0.0003	0.1377	± 0.0090	114.3	± 2.1	130.9	± 8.6	0.79

Grain No.	Isotopic ratios			Age (Ma)			Th/U		
	$^{206}\text{Pb}/^{238}\text{U}$	Error 1σ	$^{207}\text{Pb}/^{235}\text{U}$	Error 1σ	$^{206}\text{Pb}/^{238}\text{U}$	Error 1σ			
Aka-03-125	0.0158	± 0.0006	0.1069	± 0.0079	100.8	± 3.8	103.1	± 7.6	0.28
Aka-03-126	0.0273	± 0.0005	0.1825	± 0.0079	173.7	± 3.4	170.2	± 7.3	0.29
Aka-03-127	0.0158	± 0.0004	0.1125	± 0.0059	101.0	± 2.6	108.2	± 5.7	0.72
Aka-03-128	0.3130	± 0.0038	4.8448	± 0.0973	1755.4	± 21.3	1792.7	± 36.0	0.41
Aka-03-129	0.0635	± 0.0027	0.6200	± 0.0472	396.7	± 17.1	489.8	± 37.3	0.38
Aka-03-130	0.2902	± 0.0039	4.3651	± 0.1033	1642.7	± 22.1	1705.7	± 40.4	0.56
Aka-03-131	0.0178	± 0.0008	0.1555	± 0.0119	113.8	± 4.8	146.7	± 11.2	0.38
Aka-03-132	0.0231	± 0.0004	0.1477	± 0.0055	147.3	± 2.5	139.9	± 5.3	0.24
Aka-03-133	0.0450	± 0.0010	0.3298	± 0.0228	283.5	± 6.5	289.4	± 20.0	0.66
Aka-03-134	0.0162	± 0.0004	0.1269	± 0.0120	103.3	± 2.7	121.3	± 11.5	0.53
Aka-03-135	0.3332	± 0.0065	5.2602	± 0.1670	1853.8	± 36.0	1862.4	± 59.1	0.32
Aka-03-136	0.0281	± 0.0006	0.2143	± 0.0115	178.8	± 3.8	197.2	± 10.6	0.68
Aka-03-137	0.0160	± 0.0004	0.1296	± 0.0089	102.0	± 2.4	123.7	± 8.5	0.38
Aka-03-138	0.0345	± 0.0007	0.2339	± 0.0107	218.7	± 4.4	213.4	± 9.8	0.57
Aka-03-139	0.0168	± 0.0004	0.1188	± 0.0062	107.4	± 2.3	114.0	± 5.9	0.35
Aka-03-140	0.0257	± 0.0005	0.1970	± 0.0085	163.8	± 3.3	182.6	± 7.8	0.47
Aka-03-141	0.0401	± 0.0005	0.2919	± 0.0138	253.4	± 3.3	260.0	± 12.3	0.39
Aka-03-142	0.0303	± 0.0004	0.2130	± 0.0093	192.5	± 2.4	196.1	± 8.5	0.52
Aka-03-143	0.0407	± 0.0005	0.3074	± 0.0133	257.0	± 3.3	272.2	± 11.8	0.59
Aka-03-144	0.0205	± 0.0004	0.1415	± 0.0115	130.5	± 2.4	134.4	± 10.9	0.58
Aka-03-145	0.0184	± 0.0003	0.1026	± 0.0074	117.6	± 1.8	99.1	± 7.1	0.28
Aka-03-146	0.0188	± 0.0003	0.1386	± 0.0075	120.2	± 1.7	131.8	± 7.1	0.33
Aka-03-147	0.0169	± 0.0002	0.1049	± 0.0054	108.0	± 1.4	101.3	± 5.3	1.07
Aka-03-148	0.0169	± 0.0003	0.1228	± 0.0066	108.3	± 1.7	117.6	± 6.3	0.42
Aka-03-149	0.0184	± 0.0004	0.1195	± 0.0126	117.6	± 2.7	114.6	± 12.1	0.51
Aka-03-150	0.0160	± 0.0003	0.1022	± 0.0080	102.1	± 1.9	98.8	± 7.7	0.76
Aka-03-151	0.3970	± 0.0047	7.0042	± 0.1467	2155.0	± 25.7	2111.9	± 44.2	0.20
Aka-03-152	0.0166	± 0.0003	0.1356	± 0.0111	106.0	± 2.2	129.2	± 10.6	0.48
Aka-03-153	0.2729	± 0.0032	4.3750	± 0.0903	1555.4	± 18.3	1707.6	± 35.3	0.16
Aka-03-154	0.3964	± 0.0047	6.6981	± 0.1406	2152.4	± 25.6	2072.3	± 43.5	0.58
Aka-03-155	0.0815	± 0.0014	0.6145	± 0.0398	505.2	± 8.9	486.4	± 31.5	0.50
Aka-03-156	0.3499	± 0.0051	6.9385	± 0.1451	1934.2	± 28.3	2103.5	± 44.0	0.25
Aka-03-157	0.0453	± 0.0008	0.3284	± 0.0168	285.7	± 5.0	288.3	± 14.8	0.46
Aka-03-158	0.0176	± 0.0005	0.1090	± 0.0146	112.3	± 3.0	105.0	± 14.1	0.39
Aka-03-159	0.0357	± 0.0007	0.2245	± 0.0141	226.4	± 4.2	205.6	± 12.9	0.63
Aka-03-160	0.3464	± 0.0053	5.4298	± 0.1392	1917.2	± 29.3	1889.5	± 48.4	0.26
Aka-03-161	0.0162	± 0.0003	0.1100	± 0.0050	103.8	± 1.7	105.9	± 4.8	0.54
Aka-03-162	0.0172	± 0.0003	0.1088	± 0.0048	109.7	± 1.8	104.8	± 4.6	0.51
Aka-03-163	0.4143	± 0.0062	7.8463	± 0.1743	2234.7	± 33.2	2213.5	± 49.2	0.22
Aka-03-164	0.0160	± 0.0003	0.1063	± 0.0058	102.6	± 1.8	102.5	± 5.6	0.47