

# Pb-isotope microanalysis of fluid inclusions, with applications to the Miocene Au-Cu ore district of the Apuseni Mountains, Romania

## Samples and dates

**Dataset**

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Sample number	Volcano-plutonic center	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Fe <sub>2</sub> O <sub>3</sub> *	LOI	Sum
ER-362	Baia de Aries	62.01	17.66	0.13	2.56	6.52	3.11	1.76	0.65	0.22	5.37	2.02	100.14
ER-46	Baia de Aries	62.40	17.51	0.11	2.41	6.48	3.11	1.77	0.64	0.21	5.34	1.50	99.46
ER-55	Baia de Aries	61.57	17.38	0.13	2.95	6.47	2.93	2.31	0.62	0.25	5.40	2.72	99.78
ER-6908	Baia de Aries	61.78	18.28	0.11	2.33	6.57	2.89	1.92	0.63	0.21	5.27	1.50	99.29
ER-804	Baia de Aries	63.74	17.15	0.12	2.30	5.65	3.35	2.32	0.54	0.20	4.62	2.21	99.96
GM-04-CH-42	Baia de Aries	59.28	18.34	0.12	3.31	7.30	3.81	1.48	0.70	0.32	5.33	1.14	100.43
GM-04-CH-42E	Baia de Aries	49.71	24.64	0.07	1.68	11.69	2.83	0.59	0.68	0.55	7.57	1.21	100.18
GM-04-CH-43	Baia de Aries	61.30	18.03	0.12	2.67	6.38	2.93	1.87	0.70	0.17	5.82	1.51	99.87
SG-04-CH-41	Baia de Aries	60.92	17.94	0.14	3.19	6.48	3.68	1.64	0.71	0.23	5.06	1.45	99.69
BZ-04-CH-10	Barza	63.78	17.78	0.14	1.62	5.40	3.26	2.00	0.57	0.21	5.24	2.90	100.38
BZ-04-CH-21	Barza	60.39	17.99	0.14	2.33	8.04	2.77	1.38	0.63	0.15	6.18	2.64	99.84
VM-03-ER-110	Barza	59.67	17.58	0.15	2.67	7.61	2.90	1.41	0.72	0.23	7.06	2.95	100.18
VM-03-KK-06 <sup>1</sup>	Barza	59.10	18.21	0.18	3.07	7.24	3.27	1.57	0.72	0.18	6.47	1.88	99.90
VM-03-KK-16 <sup>1</sup>	Barza	61.42	15.45	0.14	2.45	4.83	4.35	2.45	0.48	0.14	8.30	4.43	100.05
VM-03-KK-35 <sup>1</sup>	Barza	61.40	17.97	0.16	2.04	6.76	2.83	1.69	0.63	0.19	6.32	3.79	99.73
VM-03-KK-47 <sup>1</sup>	Barza	57.39	18.25	0.18	2.88	8.60	2.29	1.26	0.75	0.13	8.29	4.14	99.55
VM-03-KK-71	Barza	64.29	18.27	0.09	1.18	6.40	2.67	1.69	0.58	0.20	4.63	3.38	100.24
VM-03-KK-75 <sup>1</sup>	Barza	64.11	17.57	0.15	1.77	6.21	2.81	1.65	0.52	0.16	5.03	2.24	99.43
VM-04-CH-07	Barza	61.52	17.89	0.17	1.96	6.91	2.55	1.74	0.66	0.19	6.42	4.99	100.46
VM-04-CH-07B	Barza	60.78	18.07	0.15	2.40	6.64	3.09	1.69	0.66	0.16	6.36	1.15	100.31
VM-04-CH-07E1	Barza	55.06	19.03	0.19	2.78	9.32	2.58	1.81	0.80	0.17	8.26	6.68	100.70
VM-04-CH-07E2	Barza	55.07	18.92	0.18	3.27	9.42	2.58	0.97	0.90	0.11	8.58	5.02	100.72
VM-04-CH-08	Barza	59.45	18.35	0.19	3.17	6.71	3.36	1.75	0.68	0.16	6.18	2.63	99.82
VM-04-CH-09	Barza	64.55	17.54	0.15	1.88	6.36	2.52	1.30	0.56	0.18	4.96	3.06	99.91
BC-04-CH-26	Bucium	57.30	20.28	0.20	2.67	5.81	5.13	0.41	0.59	0.16	7.44	2.39	100.40
ER-6913	Bucium	60.74	18.27	0.16	2.07	7.25	2.58	1.14	0.81	0.18	6.80	2.10	99.75
TN-04-CH-27	Bucium	60.67	18.20	0.12	2.45	7.43	2.67	1.37	0.71	0.13	6.24	2.58	100.10
TN-04-CH-28	Bucium	64.15	18.07	0.13	1.72	5.95	2.98	1.54	0.50	0.14	4.81	2.50	100.54
TN-04-CH-25	Bucium	59.40	18.19	0.15	3.21	7.84	2.77	0.88	0.67	0.10	6.78	1.74	100.40
CT-04-CH-14	Cetras	61.18	16.96	0.11	3.78	7.21	3.36	1.42	0.60	0.15	5.25	2.26	99.68
ZM-04-CH-13	Cetras	58.28	15.90	0.09	5.09	7.09	3.55	2.96	0.78	0.34	5.92	1.99	99.73
DT-04-CH-36	Detunata	55.72	15.56	0.14	6.34	9.74	2.85	1.50	0.99	0.24	6.91	0.91	100.26
DT-04-CH-36B	Detunata	54.96	15.67	0.15	6.25	10.15	2.79	1.51	1.05	0.26	7.21	1.13	100.29
DT-04-CH-37	Detunata	55.27	15.32	0.14	6.77	9.96	2.80	1.46	0.98	0.24	7.06	1.15	100.14
DV-03-IP-01 <sup>1</sup>	Deva	59.12	18.97	0.13	2.75	6.99	3.99	1.79	0.54	0.20	5.53	0.59	99.99
DV-03-IP-02 <sup>1</sup>	Deva	59.37	18.93	0.12	2.03	8.39	3.83	1.63	0.55	0.24	4.91	1.67	99.77
DV-03-IP-02ANC <sup>1</sup>	Deva	54.29	19.58	0.15	4.12	9.26	3.00	1.21	0.75	0.32	7.32	1.52	100.38
DV-03-IP-04 <sup>1</sup>	Deva	59.32	18.26	0.11	2.87	7.48	3.80	1.47	0.64	0.23	5.81	1.23	100.17
DV-03-IP-13 <sup>1</sup>	Deva	60.58	18.71	0.10	2.16	7.06	3.93	2.35	0.48	0.22	4.41	2.77	99.93
DV-04-CH-01	Deva	58.40	19.34	0.13	2.71	7.39	3.93	1.80	0.56	0.19	5.54	1.14	99.80
DV-04-CH-04	Deva	59.45	19.17	0.12	2.77	7.22	3.83	1.55	0.54	0.23	5.11	1.16	99.63
DV-04-CH-04E	Deva	53.19	19.22	0.18	3.21	11.35	2.79	1.20	0.79	0.34	7.74	5.32	100.32
DVP-03-IP-30 <sup>1</sup>	Deva	61.31	18.87	0.08	2.24	6.52	3.94	1.54	0.50	0.21	4.80	2.12	99.63
RM-03-SW-29	R Montana	63.83	18.15	0.11	1.81	5.36	2.84	2.73	0.50	0.10	4.57	2.03	99.97
RM-04-CH-31	R Montana	63.61	17.53	0.12	2.09	4.31	3.33	3.69	0.49	0.10	4.73	1.60	100.47
RM-04-CH-32	R Montana	64.36	16.72	0.08	0.48	2.92	0.65	11.58	0.40	0.10	2.71	4.14	100.14
RM-04-CH-35	R Montana	67.03	17.06	0.27	0.92	6.23	2.71	1.58	0.40	0.11	3.69	5.41	100.59
RP-02-RR-41	R Poeini	58.30	18.33	0.20	2.35	7.36	3.39	2.62	0.64	0.35	6.46	1.48	99.52
RP-03-SW-66	R Poeini	60.42	18.48	0.11	2.55	7.11	3.08	2.08	0.64	0.23	5.28	1.98	99.88
RP-04-CH-30	R Poeini	59.64	18.65	0.19	2.64	6.63	4.04	1.87	0.62	0.25	5.49	3.17	100.31
RP-04-CH-33	R Poeini	61.30	18.15	0.17	2.20	6.66	3.70	1.93	0.56	0.26	5.07	1.70	100.51
RP-04-CH-34	R Poeini	59.20	18.47	0.13	2.67	7.91	3.17	1.92	0.65	0.24	5.63	2.33	100.00
RP-04-CH-38	R Poeini	58.36	18.74	0.16	2.86	8.00	3.06	1.74	0.70	0.25	6.14	2.93	100.20
RP-04-CH-38B	R Poeini	59.10	18.57	0.18	2.87	7.60	3.14	1.62	0.68	0.24	6.01	2.96	100.56
RP-04-CH-39	R Poeini	60.36	18.52	0.16	2.09	7.69	3.32	1.73	0.61	0.23	5.30	2.90	100.24
RP-04-CH-40	R Poeini	61.14	17.86	0.13	2.46	6.92	3.05	2.32	0.63	0.34	5.16	2.60	99.76
RP-04-CH-44	R Poeini	60.38	18.71	0.15	2.67	7.06	3.35	1.61	0.61	0.20	5.25	2.05	99.92
RP-04-CH-44B	R Poeini	61.80	18.12	0.14	2.45	6.82	3.35	1.75	0.56	0.18	4.82	2.41	100.51
RP-04-CH-47	R Poeini	59.22	18.23	0.18	2.80	5.97	4.17	2.16	0.65	0.31	6.32	1.72	100.04
RP-04-CH-48	R Poeini	59.89	18.38	0.15	2.14	6.92	3.48	2.41	0.60	0.33	5.71	1.45	99.56
RP-04-CH-49	R Poeini	60.17	18.37	0.13	2.06	6.59	3.52	2.62	0.59	0.32	5.63	1.61	99.66
RP-04-KK-08	R Poeini	60.23	18.11	0.14	2.22	6.75	3.45	2.41	0.62	0.33	5.73	1.40	99.44
RP-04-KK-08E	R Poeini	57.76	18.52	0.08	2.90	5.82	3.85	1.86	0.77	0.64	7.79	2.24	99.39
HN-04-CH-20	Sacaramb - Hondol	62.09	17.27	0.11	3.09	5.39	4.19	2.65	0.57	0.28	4.34	1.72	100.01
ER-565	Sacaramb-Cetras	62.50	17.61	0.16	2.34	6.50	3.06	1.76	0.58	0.21	5.27	2.57	100.63
ER-781	Sacaramb-Cetras	63.79	17.25	0.14	2.58	5.61	3.14	1.59	0.61	0.15	5.12	2.05	100.08
SC-04-CH-16	Sacarimb	55.09	17.35	0.14	4.26	8.24	3.58	2.19	0.90	0.20	8.05	3.32	100.23
SC-04-CH-17	Sacarimb	61.79	17.42	0.13	2.63	6.75	3.54	1.83	0.57	0.21	5.13	1.66	100.30
SC-04-CH-18	Sacarimb	61.04	17.03	0.14	3.47	6.22	3.11	2.49	0.61	0.21	5.68	3.09	99.96
SC-04-CH-19	Sacarimb	62.18	16.96	0.13	3.48	6.31	3.18	1.84	0.56	0.18	5.20	3.06	100.04
UR-04-CH-00	Uroi	59.80	15.44	0.08	3.80	5.82	4.17	4.58	0.97	0.63	4.70	0.9	99.96
ER-140	Zlatna	55.63	17.96	0.20	2.85	9.45	2.80	0.95	1.07	0.24	8.86	3.85	100.14
ER-592	Zlatna	60.11	18.02	0.13	2.56	7.32	2.17	1.60	0.69	0.14	7.26	2.26	99.42
ZL-04-CH-22	Zlatna	61.46	17.91	0.13	2.32	6.69	2.40	1.80	0.66	0.14	6.47	3.22	100.24
ZL-04-CH-23	Zlatna	64.34	17.61	0.13	1.46	5.55	3.65	1.53	0.53	0.17	5.03	2.34	100.23

<sup>1</sup>analysis by K. Kouzmanov