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Solution

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15MK GRADE 50_20230804_122800_G05_S05_M05-Evaluati report (15MK GRADE 50_20230804_122800_G05_S05_M05)



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General information

Analysis date	2023-08-04 14:41:47	Measurement start time	2023-08-04 12:44:33
Analyst	Administrator	Operator	Administrator
Sample name	15MK GRADE 50	Comment	
Measured data name	C:\Users\Rigaku pc\Desktop\ANALYSIS\OGA\04-08-2023\15...	Memo	

Peak list

No.	2 θ , °	d, Å	Height, cps	FWHM, °	Int. I., cps°	Int. W., °	Asymmetry	Decay(η L/mL)	Decay(η H/mH)	Size, Å
1	21.42(4)	4.146(8)	329(48)	0.21(4)	81(12)	0.25(7)	0.7(6)	0.0(9)	0.6(6)	411(72)
2	26.276(10)	3.3890(13)	422(66)	0.11(3)	51(11)	0.12(4)	0.5(6)	0.0(12)	0.0(8)	761(202)
3	27.309(5)	3.2631(6)	1340(114)	0.213(12)	336(15)	0.25(3)	5(3)	0.01(15)	1.15(19)	401(23)
4	28.061(10)	3.1773(11)	357(37)	0.14(3)	73(7)	0.20(4)	0.5(3)	1.4(2)	0.2(3)	592(103)
5	28.523(6)	3.1269(6)	714(79)	0.117(17)	118(7)	0.17(3)	0.5(3)	1.4(2)	0.2(3)	731(103)
6	30.04(4)	2.972(4)	217(32)	0.28(5)	79(12)	0.37(11)	1.0(6)	0.3(9)	0.8(11)	302(58)
7	46.278(16)	1.9602(6)	262(42)	0.13(5)	37(11)	0.14(6)	0.5(7)	0.0(17)	0.0(12)	680(233)
8	50.72(3)	1.7984(12)	299(49)	0.16(4)	61(9)	0.20(6)	0.6(8)	0.7(9)	0.4(8)	575(153)
9	51.83(3)	1.7626(10)	256(43)	0.15(6)	59(9)	0.23(7)	2(3)	1.2(8)	0.0(15)	609(230)
10	68.768(13)	1.3640(2)	538(80)	0.15(3)	127(10)	0.24(5)	2.0(6)	0.7(4)	1.5(6)	685(126)

No.	2 θ , °	Phase Name	Chemical Formula	Card No	Norm. I.	Profile Type	Distributi...	Degree of Orientation
1	21.42(4)	quartz HP: 1 0 0, Microcline: 2...	Si O ₂ , K (Al Si ₃ O ₈ ...	01-086-1563,01-07...	24.22	Split pseudo-Voigt	-	-
2	26.276(10)	Microcline: 1 -1 -2	K (Al Si ₃ O ₈)	01-076-0918	15.05	Split pseudo-Voigt	-	-
3	27.309(5)	quartz HP: 0 1 1, Muscovite: 0 0...	Si O ₂ , H ₂ K Al ₃ (Si...	01-086-1563,00-00...	100.00	Split pseudo-Voigt	-	-
4	28.061(10)	Microcline: 0 4 0	K (Al Si ₃ O ₈)	01-076-0918	21.75	Split pseudo-Voigt	-	-
5	28.523(6)	Unknown			35.22	Split pseudo-Voigt	-	-
6	30.04(4)	Microcline: 1 3 1, Muscovite: 0...	K (Al Si ₃ O ₈), H ₂ K...	01-076-0918,00-00...	23.59	Split pseudo-Voigt	-	-
7	46.278(16)	Orthoclase: 4 2 -2, Muscovite: 0...	Al ₂ O ₃ · K ₂ O · 6 Si...	00-002-0475,00-00...	10.98	Split pseudo-Voigt	-	-
8	50.72(3)	Orthoclase: 4 2 0	Al ₂ O ₃ · K ₂ O · 6 Si...	00-002-0475	18.09	Split pseudo-Voigt	-	-
9	51.83(3)	Microcline: 0 6 2, Albite: 4 -3 -1...	K (Al Si ₃ O ₈), Na A...	01-076-0918,00-00...	17.54	Split pseudo-Voigt	-	-
10	68.768(13)	Microcline: 1 3 4, Albite: 4 1 -5	K (Al Si ₃ O ₈), Na A...	01-076-0918,00-00...	37.88	Split pseudo-Voigt	-	-



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No.	2 θ , °	Ring Factor	β Cluster
1	21.42(4)	-	-
2	26.276(10)	-	-
3	27.309(5)	-	-
4	28.061(10)	-	-
5	28.523(6)	-	-
6	30.04(4)	-	-
7	46.278(16)	-	-
8	50.72(3)	-	-
9	51.83(3)	-	-
10	68.768(13)	-	-

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Qualitative Analysis Results

Phase name	Formula	Figure of merit	Phase reg. detail	Space Group	DB Card Number
quartz HP	Si O ₂	1.179	S/M(PDF-4 Minerals 2021)	154 : P3221	01-086-1563
Microcline	K (Al Si ₃ O ₈)	2.245	S/M(PDF-4 Minerals 2021)	2 : C-1	01-076-0918
Orthoclase	Al ₂ O ₃ · K ₂ O · 6 Si O ₂	3.292	S/M(PDF-4 Minerals 2021)	12 : C12/m1	00-002-0475
Albite	Na Al Si ₃ O ₈	3.418	S/M(PDF-4 Minerals 2021)	2 : P-1	00-003-0451
Muscovite	H ₂ K Al ₃ (Si O ₄) ₃	3.085	S/M(PDF-4 Minerals 2021)	15 : C12/c1	00-001-1098
Osumilite	K - Na - Ca - Mg - Fe - Al - S...	3.106	S/M(PDF-4 Minerals 2021)	192 : P6/mcc	00-010-0413



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Phase Data View

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