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Solution

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5MK GRADE 30_20230804_130032_G03_S03_M03-Evaluatio report (5MK GRADE 30_20230804_130032_G03_S03_M03)



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General information

Analysis date	2023-08-04 14:15:43	Measurement start time	2023-08-04 13:09:22
Analyst	Administrator	Operator	Administrator
Sample name	5MK GRADE 30	Comment	
Measured data name	C:\Users\Rigaku pc\Desktop\ANALYSIS\OGA\04-08-2023\5M...	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	18.09(3)	4.900(8)	415(52)	0.15(3)	90(9)	0.22(5)	1.3(13)	1.1(6)	0.2(7)	554(125)
2	20.91(6)	4.245(12)	222(35)	0.30(5)	70(15)	0.32(12)	0.8(7)	0.0(11)	0.0(10)	284(50)
3	24.04(5)	3.698(8)	318(46)	0.23(5)	86(16)	0.27(9)	1.5(15)	0.0(9)	0.5(10)	363(70)
4	25.0(2)	3.55(3)	77(14)	2.6(6)	259(55)	3.4(13)	2.7(19)	0.0(8)	1.3(6)	32(8)
5	26.681(15)	3.3384(18)	2878(189)	0.206(11)	688(24)	0.24(2)	2.0(7)	0.00(13)	0.7(3)	413(23)
6	27.53(4)	3.238(5)	524(65)	0.12(4)	81(13)	0.16(4)	1.0(14)	0.9(10)	0.0(10)	710(224)
7	28.069(6)	3.1764(7)	1692(129)	0.092(14)	332(14)	0.20(2)	2.3(10)	1.5(2)	1.5(4)	926(144)
8	29.443(14)	3.0312(14)	441(68)	0.21(9)	161(15)	0.37(9)	0.9(13)	1.3(5)	1.1(5)	405(179)
9	39.486(11)	2.2803(6)	408(56)	0.113(19)	52(6)	0.13(3)	2.0(8)	0.3(5)	0.0(9)	779(128)
10	68.17(13)	1.374(2)	109(19)	1.1(2)	181(22)	1.7(5)	1.5(6)	0.4(7)	1.5(6)	94(18)

No.	2 θ , °	Phase Name	Chemical Formula	Card No	Norm. I.	Profile Type	Distributi...	Degree of Orientation
1	18.09(3)	Unknown			13.01	Split pseudo-Voigt	-	-
2	20.91(6)	Quartz, syn: 1 0 0, Microcline: 2...	Si O ₂ , K (Al Si ₃ O ₈ ...	01-085-0865, 01-07...	10.18	Split pseudo-Voigt	-	-
3	24.04(5)	Osumilite: 2 0 2	K - Na - Ca - Mg -...	00-010-0413	12.43	Split pseudo-Voigt	-	-
4	25.0(2)	Microcline: 2 2 -1, Albite: 2 0 0,...	K (Al Si ₃ O ₈), Na A...	01-070-6187, 00-00...	37.65	Split pseudo-Voigt	-	-
5	26.681(15)	Quartz, syn: 0 1 1, Microcline: 2...	Si O ₂ , K (Al Si ₃ O ₈ ...	01-085-0865, 01-07...	100.00	Split pseudo-Voigt	-	-
6	27.53(4)	Microcline: 0 0 2, Muscovite: 1...	K (Al Si ₃ O ₈), H ₂ K...	01-070-6187, 00-00...	11.83	Split pseudo-Voigt	-	-
7	28.069(6)	Unknown			48.25	Split pseudo-Voigt	-	-
8	29.443(14)	Albite: 1 -2 -2, Muscovite: 0 2 5	Na Al Si ₃ O ₈ , H ₂ K...	00-003-0451, 00-00...	23.45	Split pseudo-Voigt	-	-
9	39.486(11)	Quartz, syn: 1 0 2	Si O ₂	01-085-0865	7.56	Split pseudo-Voigt	-	-
10	68.17(13)	Quartz, syn: 2 0 3, Albite: 4 1 -5	Si O ₂ , Na Al Si ₃ O ₈	01-085-0865, 00-00...	26.24	Split pseudo-Voigt	-	-



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No.	2 θ , °	Ring Factor	β Cluster
1	18.09(3)	-	-
2	20.91(6)	-	-
3	24.04(5)	-	-
4	25.0(2)	-	-
5	26.681(15)	-	-
6	27.53(4)	-	-
7	28.069(6)	-	-
8	29.443(14)	-	-
9	39.486(11)	-	-
10	68.17(13)	-	-

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Qualitative Analysis Results

Phase name	Formula	Figure of merit	Phase reg. detail	Space Group	DB Card Number
Quartz, syn	Si O ₂	1.000	S/M(PDF-4 Minerals 2021)	154 : P3221	01-085-0865
Microcline	K (Al Si ₃ O ₈)	2.755	S/M(PDF-4 Minerals 2021)	2 : C-1	01-070-6187
Albite	Na Al Si ₃ O ₈	3.088	S/M(PDF-4 Minerals 2021)	2 : P-1	00-003-0451
Orthoclase	Al ₂ O ₃ · K ₂ O · 6 Si O ₂	3.106	S/M(PDF-4 Minerals 2021)	12 : C12/m1	00-002-0475
Muscovite	H ₂ K Al ₃ (Si O ₄) ₃	3.277	S/M(PDF-4 Minerals 2021)	15 : C12/c1	00-001-1098
Osumilite	K - Na - Ca - Mg - Fe - Al - S...	3.232	S/M(PDF-4 Minerals 2021)	192 : P6/mcc	00-010-0413



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Phase Data View

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