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Solution

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10MK GRADE 30_20230804_130032_G02_S02_M02-Evaluati report (10MK GRADE 30_20230804_130032_G02_S02_M02)



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General information

Analysis date	2023-08-04 14:25:22	Measurement start time	2023-08-04 13:05:33
Analyst	Administrator	Operator	Administrator
Sample name	10MK GRADE 30	Comment	
Measured data name	C:\Users\Rigaku pc\Desktop\ANALYSIS\OGA\04-08-2023\10...	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	18.261(10)	4.854(3)	342(39)	0.08(2)	55(8)	0.16(4)	3(5)	1.4(6)	1.5(6)	1043(281)
2	21.05(2)	4.217(5)	512(69)	0.182(18)	99(11)	0.19(5)	1.0(5)	0.0(5)	0.0(5)	463(45)
3	24.25(2)	3.667(3)	340(46)	0.27(6)	176(18)	0.52(12)	1.8(18)	1.3(4)	1.5(3)	313(66)
4	26.892(13)	3.3127(16)	2214(148)	0.175(13)	502(18)	0.23(2)	2.9(13)	0.45(13)	0.8(4)	488(36)
5	28.08(6)	3.175(6)	169(23)	0.62(12)	136(18)	0.8(2)	2.9(13)	0.45(13)	0.8(4)	138(26)
6	29.61(5)	3.015(5)	380(56)	0.18(10)	132(16)	0.35(9)	0.7(8)	1.5(7)	1.2(9)	469(246)
7	34.325(16)	2.6104(12)	323(40)	0.20(4)	76(15)	0.24(7)	5(8)	0.0(8)	1.3(7)	442(98)
8	39.69(5)	2.269(3)	219(33)	0.18(5)	43(11)	0.19(8)	2(3)	0.0(11)	0.0(17)	484(140)
9	50.294(16)	1.8127(5)	343(49)	0.15(5)	84(11)	0.24(7)	1.1(15)	1.2(5)	0.8(6)	598(214)
10	60.206(11)	1.5358(3)	367(51)	0.14(3)	64(10)	0.18(5)	3(4)	0.0(8)	1.3(5)	687(155)

No.	2 θ , °	Phase Name	Chemical Formula	Card No	Norm. I.	Profile Type	Distributi...	Degree of Orientation
1	18.261(10)	Unknown			10.91	Split pseudo-Voigt	-	-
2	21.05(2)	Quartz, syn: 1 0 0, Sanidine: 2 0...	Si O ₂ , K (Al Si ₃ O ₈)	01-077-8621, 01-07...	19.74	Split pseudo-Voigt	-	-
3	24.25(2)	Unknown			35.08	Split pseudo-Voigt	-	-
4	26.892(13)	Quartz, syn: 0 1 1, Albite: 2 -2 -...	Si O ₂ , Na Al Si ₃ O ₈ , ...	01-077-8621, 00-00...	100.00	Split pseudo-Voigt	-	-
5	28.08(6)	Unknown			27.03	Split pseudo-Voigt	-	-
6	29.61(5)	Osumilite: 2 1 2	K - Na - Ca - Mg -...	00-010-0413	26.19	Split pseudo-Voigt	-	-
7	34.325(16)	Albite: 2 1 1, Muscovite: 1 3 1	Na Al Si ₃ O ₈ , H ₂ K...	00-003-0451, 00-00...	15.20	Split pseudo-Voigt	-	-
8	39.69(5)	Quartz, syn: 1 0 2	Si O ₂	01-077-8621	8.47	Split pseudo-Voigt	-	-
9	50.294(16)	Sanidine: 3 5 0, Orthoclase: 4 2 0	K (Al Si ₃ O ₈), Al ₂ ...	01-073-6503, 00-00...	16.74	Split pseudo-Voigt	-	-
10	60.206(11)	Quartz, syn: 1 2 1, Albite: 4 3 -4	Si O ₂ , Na Al Si ₃ O ₈	01-077-8621, 00-00...	12.83	Split pseudo-Voigt	-	-



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No.	2 θ , °	Ring Factor	β Cluster
1	18.261(10)	-	-
2	21.05(2)	-	-
3	24.25(2)	-	-
4	26.892(13)	-	-
5	28.08(6)	-	-
6	29.61(5)	-	-
7	34.325(16)	-	-
8	39.69(5)	-	-
9	50.294(16)	-	-
10	60.206(11)	-	-



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Qualitative Analysis Results

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Phase name	Formula	Figure of merit	Phase reg. detail	Space Group	DB Card Number
Quartz, syn	Si O ₂	0.935	S/M(PDF-4 Minerals 2021)	154 : P3221	01-077-8621
Sanidine	K (Al Si ₃ O ₈)	2.919	Import(PDF-4 Minerals 2021)	12 : C12/m1	01-073-6503
Orthoclase	Al ₂ O ₃ · K ₂ O · 6 Si O ₂	3.095	Import(PDF-4 Minerals 2021)	12 : C12/m1	00-002-0475
Albite	Na Al Si ₃ O ₈	3.141	Import(PDF-4 Minerals 2021)	2 : P-1	00-003-0451
Muscovite	H ₂ K Al ₃ (Si O ₄) ₃	3.212	Import(PDF-4 Minerals 2021)	15 : C12/c1	00-001-1098
Osumilite	K - Na - Ca - Mg - Fe - Al - S...	3.221	Import(PDF-4 Minerals 2021)	192 : P6/mcc	00-010-0413



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Phase Data View

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