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Solution

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25MK GRADE 30_20230804_122800_G01_S01_M01-Evaluati report (25MK GRADE 30_20230804_122800_G01_S01_M01)



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General information

Analysis date	2023-08-04 15:05:26	Measurement start time	2023-08-04 12:29:15
Analyst	Administrator	Operator	Administrator
Sample name	25MK GRADE 30	Comment	
Measured data name	C:\Users\Rigaku pc\Desktop\ANALYSIS\OGA\04-08-2023\25...	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	18.247(8)	4.858(2)	399(50)	0.09(4)	63(10)	0.16(4)	4(8)	1.0(6)	1.5(6)	892(381)
2	21.09(3)	4.210(7)	439(59)	0.16(3)	75(14)	0.17(6)	3(3)	0.0(7)	0.0(14)	525(91)
3	24.204(7)	3.6742(10)	538(56)	0.11(4)	88(12)	0.16(4)	5(16)	1.0(5)	0.5(11)	790(280)
4	25.85(3)	3.444(4)	333(38)	0.11(4)	41(12)	0.12(5)	4(7)	0.0(11)	0(2)	756(244)
5	26.858(15)	3.3168(18)	2216(150)	0.127(15)	397(18)	0.18(2)	1.6(8)	0.8(3)	0.7(4)	670(80)
6	27.288(15)	3.2655(18)	491(60)	0.04(3)	34(11)	0.07(3)	0.6(14)	1.5(15)	0.9(15)	2075(1439)
7	27.68(4)	3.220(4)	566(58)	0.23(5)	237(22)	0.42(8)	0.50(12)	0.2(9)	1.5(3)	366(76)
8	34.279(16)	2.6138(12)	391(46)	0.10(3)	47(12)	0.12(4)	5(10)	0.0(11)	1.5(9)	902(313)

No.	2 θ , °	Phase Name	Chemical Formula	Card No	Norm. I.	Profile Type	Distributi...	Degree of Orientation
1	18.247(8)	Unknown			15.81	Split pseudo-Voigt	-	-
2	21.09(3)	Quartz: 1 0 0, Microcline: 2 0 -1...	Si O ₂ , K (Al Si ₃ O ₈ ...	00-001-0649,01-07...	18.94	Split pseudo-Voigt	-	-
3	24.204(7)	Albite: 2 0 0	Na Al Si ₃ O ₈	00-003-0451	22.09	Split pseudo-Voigt	-	-
4	25.85(3)	Microcline: 1 -1 -2	K (Al Si ₃ O ₈)	01-070-6187	10.45	Split pseudo-Voigt	-	-
5	26.858(15)	Quartz: 1 0 1, Microcline: 2 2 0	Si O ₂ , K (Al Si ₃ O ₈)	00-001-0649,01-07...	100.00	Split pseudo-Voigt	-	-
6	27.288(15)	Microcline: 2 0 -2, Muscovite: 1...	K (Al Si ₃ O ₈), H ₂ K...	01-070-6187,00-00...	8.56	Split pseudo-Voigt	-	-
7	27.68(4)	Microcline: 0 0 2	K (Al Si ₃ O ₈)	01-070-6187	59.85	Split pseudo-Voigt	-	-
8	34.279(16)	Muscovite: 1 3 1	H ₂ K Al ₃ (Si O ₄) ₃	00-001-1098	11.80	Split pseudo-Voigt	-	-



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Phase name	Formula	Figure of merit	Phase reg. detail	Space Group	DB Card Number
Quartz	Si O ₂	2.969	S/M(PDF-4 Minerals 2021)	154 : P3221	00-001-0649
Albite	Na Al Si ₃ O ₈	3.416	S/M(PDF-4 Minerals 2021)	2 : P-1	00-003-0451
Microcline	K (Al Si ₃ O ₈)	1.995	S/M(PDF-4 Minerals 2021)	2 : C-1	01-070-6187
Orthoclase	Al ₂ O ₃ · K ₂ O · 6 Si O ₂	2.970	S/M(PDF-4 Minerals 2021)	12 : C12/m1	00-002-0475
Muscovite	H ₂ K Al ₃ (Si O ₄) ₃	3.406	S/M(PDF-4 Minerals 2021)	15 : C12/c1	00-001-1098
Osumilite	K - Na - Ca - Mg - Fe - Al - S...	3.089	S/M(PDF-4 Minerals 2021)	192 : P6/mcc	00-010-0413

No.	2θ, °	Ring Factor	β Cluster
1	18.247(8)	-	-
2	21.09(3)	-	-
3	24.204(7)	-	-
4	25.85(3)	-	-
5	26.858(15)	-	-
6	27.288(15)	-	-
7	27.68(4)	-	-
8	34.279(16)	-	-

Qualitative Analysis Results



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Phase Data View

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