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20MK GRADE 50_20230804_132926_G02_S02_M02-Evaluati report (20MK GRADE 50_20230804_132926_G02_S02_M02)



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General information

Analysis date	2023-08-04 14:58:13	Measurement start time	2023-08-04 13:34:26
Analyst	Administrator	Operator	Administrator
Sample name	20MK GRADE 50	Comment	
Measured data name	C:\Users\Rigaku pc\Desktop\ANALYSIS\OGA\04-08-2023\20...	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	21.058(12)	4.215(2)	317(42)	0.18(3)	61(14)	0.19(7)	0.6(6)	0.0(11)	0.0(8)	464(84)
2	24.282(15)	3.663(2)	649(61)	0.06(2)	87(15)	0.13(4)	3(5)	1.5(6)	1.5(19)	1352(519)
3	26.927(3)	3.3084(3)	2710(167)	0.188(7)	543(20)	0.20(2)	5.0(12)	0.00(9)	0.0(3)	453(17)
4	28.17(2)	3.165(2)	268(30)	0.72(7)	206(18)	0.77(15)	5.0(12)	0.00(9)	0.0(3)	119(12)
5	29.63(6)	3.013(6)	315(47)	0.22(8)	111(21)	0.35(12)	0.7(8)	0.0(13)	1.4(7)	397(156)
6	45.99(2)	1.9719(8)	297(40)	0.14(6)	56(13)	0.19(7)	0.7(11)	1.3(7)	0.0(13)	648(263)
7	50.03(4)	1.8217(12)	160(30)	0.16(9)	32(10)	0.20(10)	1.1(7)	0.0(11)	0.7(6)	566(327)
8	50.343(18)	1.8110(6)	635(88)	0.13(2)	98(11)	0.15(4)	1.1(7)	0.0(11)	0.7(6)	731(129)
9	64.04(3)	1.4527(5)	531(75)	0.12(2)	78(12)	0.15(4)	2(2)	0.1(7)	0.8(12)	814(155)

No.	2 θ , °	Phase Name	Chemical Formula	Card No	Norm. I.	Profile Type	Distributi...	Degree of Orientation
1	21.058(12)	Quartz, syn: 1 0 0,Osumilite: 1...	Si O ₂ ,K - Na - Ca -...	04-015-7194,00-01...	11.31	Split pseudo-Voigt	-	-
2	24.282(15)	Muscovite: 0 2 3	H ₂ K Al ₃ (Si O ₄) ₃	00-001-1098	15.95	Split pseudo-Voigt	-	-
3	26.927(3)	Quartz, syn: 1 0 1,Osumilite: 2...	Si O ₂ ,K - Na - Ca -...	04-015-7194,00-01...	100.00	Split pseudo-Voigt	-	-
4	28.17(2)	Muscovite: 1 1 4	H ₂ K Al ₃ (Si O ₄) ₃	00-001-1098	37.86	Split pseudo-Voigt	-	-
5	29.63(6)	Unknown			20.35	Split pseudo-Voigt	-	-
6	45.99(2)	Albite: 4 -1 -2	Na Al Si ₃ O ₈	00-003-0451	10.30	Split pseudo-Voigt	-	-
7	50.03(4)	Unknown			5.82	Split pseudo-Voigt	-	-
8	50.343(18)	Orthoclase: 4 2 0	Al ₂ O ₃ · K ₂ O · 6 Si...	00-002-0475	17.96	Split pseudo-Voigt	-	-
9	64.04(3)	Orthoclase: 4 4 -4	Al ₂ O ₃ · K ₂ O · 6 Si...	00-002-0475	14.33	Split pseudo-Voigt	-	-



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Phase name	Formula	Figure of merit	Phase reg. detail	Space Group	DB Card Number
Quartz, syn	Si O ₂	1.066	S/M(PDF-4 Minerals 2021)	154 : P3221	04-015-7194
Albite	Na Al Si ₃ O ₈	2.874	Import(PDF-4 Minerals 2021)	2 : P-1	00-003-0451
Orthoclase	Al ₂ O ₃ · K ₂ O · 6 Si O ₂	1.970	Import(PDF-4 Minerals 2021)	12 : C12/m1	00-002-0475
Muscovite	H ₂ K Al ₃ (Si O ₄) ₃	3.426	Import(PDF-4 Minerals 2021)	15 : C12/c1	00-001-1098
Osumilite	K - Na - Ca - Mg - Fe - Al - S...	3.457	Import(PDF-4 Minerals 2021)	192 : P6/mcc	00-010-0413

No.	2θ, °	Ring Factor	β Cluster
1	21.058(12)	-	-
2	24.282(15)	-	-
3	26.927(3)	-	-
4	28.17(2)	-	-
5	29.63(6)	-	-
6	45.99(2)	-	-
7	50.03(4)	-	-
8	50.343(18)	-	-
9	64.04(3)	-	-

Qualitative Analysis Results



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Phase Data View

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