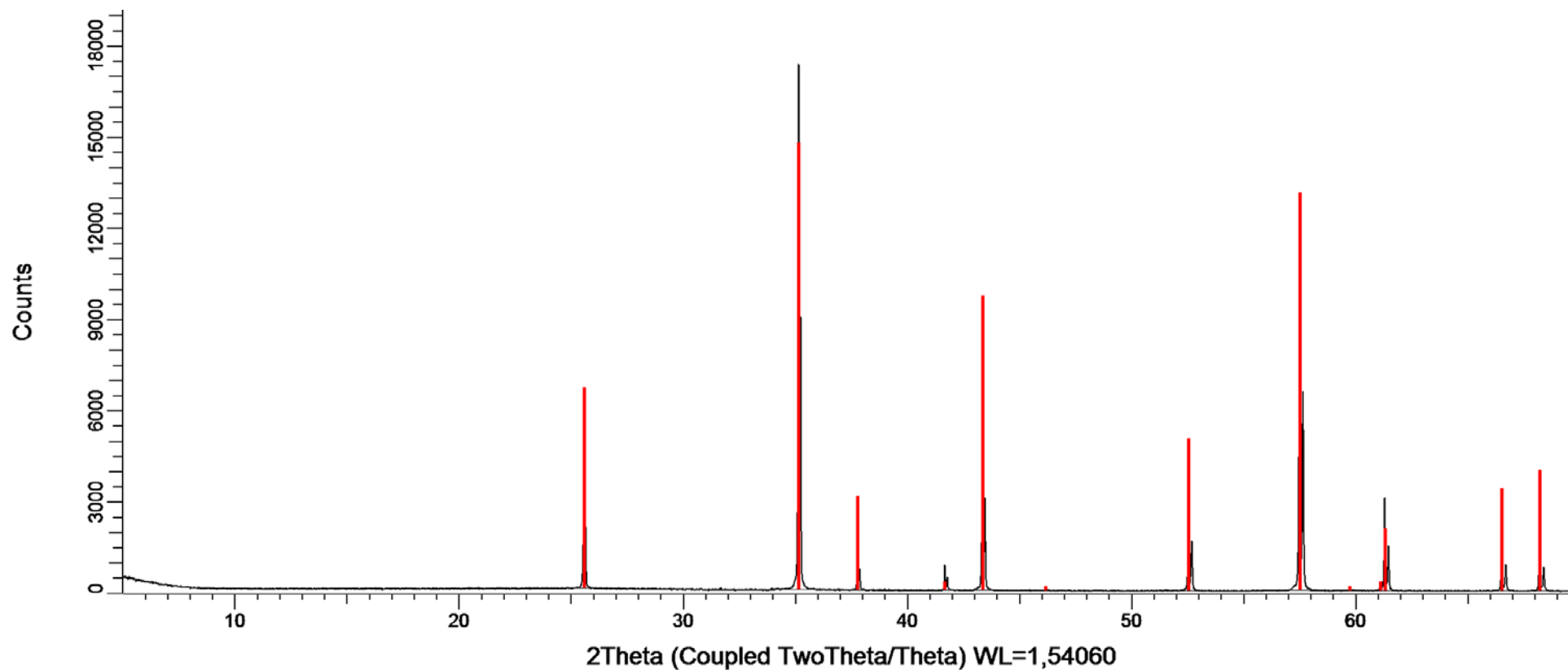


PATRÓN DE CORINDÓN 14-03-14



CORINDON 14-03-14. Barrido tipo Θ - Θ . Rango: 3 a 70 $^{\circ}2\Theta$. Paso: 0,03. Tiempo por paso: 0,1 seg. Detector: Lynxeye.



Patrón de Corindón. Trigonal – a 4.7588770 - c 12.992877 – R-3c (167) – Z 6 – V 254.81

14 de marzo de 2014

Corindon D8I-90 14-03-14

R-Values

R_{exp} : 7.00 R_{wp} : 10.93 R_p : 8.75 GOF : 1.56
 R_{exp}` : 10.91      R<sub>wp</sub>` : 17.02 R_p` : 18.15 DW : 1.06

Instrument

Primary radius (mm) 250
 Secondary radius (mm) 250
 Linear PSD 2Th angular range (°) 3.3
 FDS angle (°) 0.5
 Beam spill, sample length (mm) 25.4
 Intensity corrected
 Full Axial Convolution
 Filament length (mm) 12
 Sample length (mm) 25.4
 Receiving Slit length (mm) 12
 Primary Sollers (°) 2.5
 Secondary Sollers (°) 2.5

hkl Phase - 1 Le Bail method

Phase name Corindon
 R-Bragg 0.803
 Spacegroup r-3c
 Cell Mass 0.000
 Cell Volume (Å³) 254.8035(44)
 Wt% - Rietveld 0.000
 Crystallite Size
 Cry size Lorentzian (nm) 1930(590)
 Cry size Gaussian (nm) 1230(500)
 k: 1 LVol-IB (nm) 690(180)
 k: 0.89 LVol-FWHM (nm) 790(240)
 Strain
 Strain L 0.0057(34)
 Strain G 0.0278(45)
 e0 0.0077(12)

Lattice parameters

a (Å) 4.758802(37) **4.758877(113)**
 c (Å) 12.99210(11) **12.992877(164)**

SRM 1976a Certificate

h	k	l	m	d	Th2	I	=
0	1	2	6	3.47999	25.57675	9.99	
1	0	4	6	2.55100	35.15062	86.1	
1	1	0	6	2.37940	37.77804	7.58	
0	0	6	2	2.16535	41.67739	5.98	
1	1	3	12	2.08537	43.35492	50.3	
2	0	2	6	1.96417	46.17979	0.498	
0	2	4	6	1.74000	52.55272	43	
1	1	6	12	1.60147	57.50062	227	
2	1	1	12	1.54661	59.74302	1.75	
1	2	2	12	1.51474	61.13238	2.43	
0	1	8	6	1.51093	61.30314	61.8	
2	1	4	12	1.40452	66.52048	46	
0	3	0	6	1.37375	68.21223	45.4	
1	2	5	12	1.33601	70.41856	1.32	

14 de marzo de 2014