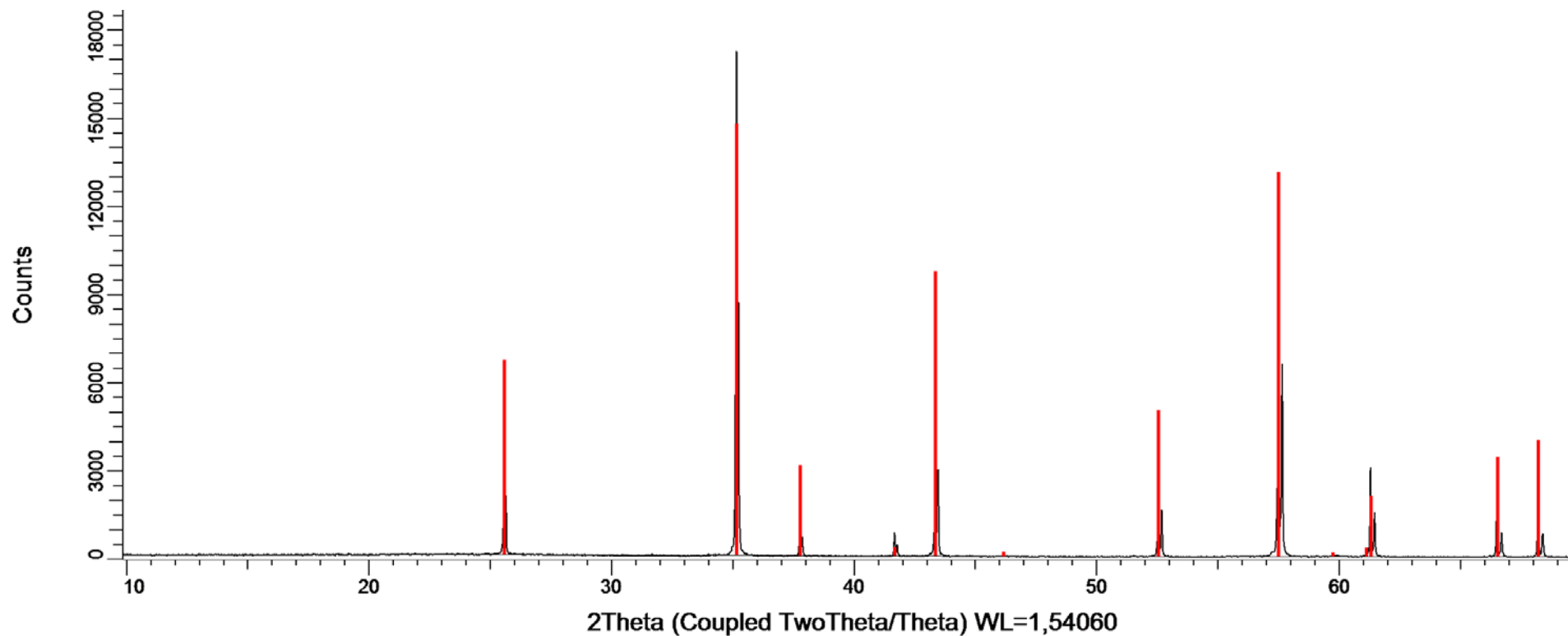


PATRÓN DE CORINDÓN 11-06-15



■ CORINDON 11-06-15. Barrido tipo Θ - Θ . Rango: 3 a 70 °2 Θ . Paso: 0,015. 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

15 de junio de 2015

Corindon D8I-90 11-06-15

R-Values

R_{exp} : 7.03 R_{wp} : 11.45 R_p : 9.25 GOF : 1.63
R_{exp}` : 10.90      R<sub>wp</sub>` : 17.76 R_p` : 19.08 DW : 1.04

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 0.910
Spacegroup r-3c

Cell Volume (Å³) 254.7793(46)

Crystallite Size
Cry size Lorentzian (nm) 1620(440)
Cry size Gaussian (nm) 770(150)
k: 1 LVol-IB (nm) 484(76)
k: 0.89 LVol-FWHM (nm) 533(85)
Strain
Strain L 0.0043(36)
Strain G 0.0249(60)
e0 0.0068(16)

Lattice parameters

a (Å) 4.758642(38) **4.758877(113)**
c (Å) 12.99174(11) **12.992877(164)**

SRM 1976a Certificate

h	k	l	m	d	Th2	I	=
0	1	2	6	3.47988	25.57758	10.1	
1	0	4	6	2.55092	35.15171	86.3	
1	1	0	6	2.37932	37.77936	7.53	
0	0	6	2	2.16529	41.67860	5.87	
1	1	3	12	2.08531	43.35639	50.2	
2	0	2	6	1.96410	46.18141	0.434	
0	2	4	6	1.73994	52.55452	43.6	
1	1	6	12	1.60142	57.50253	227	
2	1	1	12	1.54656	59.74523	2.21	
1	2	2	12	1.51469	61.13463	2.24	
0	1	8	6	1.51089	61.30508	61.5	
2	1	4	12	1.40447	66.52293	46.4	
0	3	0	6	1.37370	68.21484	44.5	
1	2	5	12	1.33597	70.42117	1.63	

15 de junio de 2015

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