

LaB6\_FDS1b2\_mask10\_faca\_11ago2024.xrdml

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## Report

Created on: 21/08/2024 12:46:16

Operator: LSCnM2020\_pcRaman

## File

File name: D:\LSCnM\_UFSC\dados\_LDRX\_UFSC\LaB6\_VM\LaB6\_FDS1b2\_mask10\_faca\_11ago2024.xrdml

Checksum: 958760be7c1b732714af2c1a56c1aeed

File size 204964  
(bytes):

## Time stamp

Started: 11/08/2024 00:21:57

Finished: 11/08/2024 07:06:50

Total time 06:44:53  
(h:m:s):

## Comment

Configuration=PoXcelSpinner1, Owner=Carlos, Creation date=14/11/2019 15:05:29  
Goniometer=PW3050/60 (Theta/Theta); Minimum step size 2Theta:0,001; Minimum step size Omega:0,001  
Sample stage=Reflection-Transmission Spinner PW3064/60; Minimum step size Phi:0,1  
Diffractometer system=XPERT-PRO  
Measurement program=MedeLaB6\_comFACA, Owner=Carlos, Creation date=13/5/2020 10:45:08  
Batch program=ECV\_Janaide\_Batch\_TorreB, Owner=Carlos, Creation date=1/6/2023 08:47:34

## Status

Completed

## Sample

Sample To be analyzed  
type:

Sample ID: LaB6 NIST 660b

Sample na cav do ZB com faca 1a div spun 4s  
name:

Prepared by: Grupo LSCnM

## Measurement type

Repeated scan (5 times)

## Used wavelength

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Intended wavelength type:  $K\alpha$   
 $K\alpha_1$  (Å): 1,540598  
 $K\alpha_2$  (Å): 1,544426  
 $K\alpha_2/K\alpha_1$  intensity ratio: 0,50  
 $K\alpha$  (Å): 1,541874  
 $K\beta$  (Å): 1,392250

## Incident beam path

Radius (mm): 240,0

### X-ray tube

Name: PW3373/00 Cu LFF DK423121

Anode material: Cu

Voltage (kV): 45

Current (mA): 40

### Focus

Focus type: Line

Length (mm): 12,0

width (mm): 0,4

Take-off angle (°): 6,0

### Soller slit

Name: Soller 0.04 rad.

Opening (rad.): 0,04

### Mask

Name: Inc. Mask Fixed 10 mm (MPD/MRD)

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Width 6,60  
(mm):

## Anti-scatter slit

Name: Slit Fixed 1°  
Type: Fixed  
Height 1,52  
(mm):

## Divergence slit

Name: Slit Fixed 1/2°  
Distance 140  
to sample  
(mm):  
Type: Fixed  
Height 0,76  
(mm):

## Sample movement

Movement type: Spinning  
Rotation 4,0  
time (s):

## Diffracted beam path

Radius 240,0  
(mm):

## Anti-scatter slit

Name: AS Slit 5.0 mm (X'Celerator)  
Type: Fixed  
Height 5,00  
(mm):

## Soller slit

Name: Large Soller 0.04 rad.  
Opening 0,04  
(rad.):

## Filter

Name: Nickel

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Thickness 0,020

(mm):

Material: Ni

## Detector

Name: X'Celerator

Type: RTMS detector

PHD - 41,5

Lower

level (%):

PHD - 98,0

Upper

level (%):

Mode: Scanning

Active 2,122

length (°):

## Source

Created by: Administrador

Application X'Pert Data Collector

SW: vs. 2.2c

Instrument XPERT-PRO

control SW: vs. 2.2D

Instrument 0000000011026311

ID:

## Comment

para medir padrão LaB6 (660) NIST usando FACA 2a div

## Sample mode

Reflection

## Scan 1

Start time 11/08/2024 00:21:57

stamp:

End time 11/08/2024 01:42:50

stamp:

Scan axis: Gonio

Scan range 14,9920 - 98,9995

(°):

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Step size (°): 0,0084

No. of 10054

points:

Scan mode: Continuous

Phi (°): 0,0

Counting 59,690

time (s):

## Scan 2

Start time 11/08/2024 01:42:59

stamp:

End time 11/08/2024 03:03:50

stamp:

Scan axis: Gonio

Scan range 14,9920 - 98,9995

(°):

Step size (°): 0,0084

No. of 10054

points:

Scan mode: Continuous

Phi (°): 0,0

Counting 59,690

time (s):

## Scan 3

Start time 11/08/2024 03:04:00

stamp:

End time 11/08/2024 04:24:50

stamp:

Scan axis: Gonio

Scan range 14,9920 - 98,9995

(°):

Step size (°): 0,0084

No. of 10054

points:

Scan mode: Continuous

Phi (°): 0,0

Counting 59,690

time (s):

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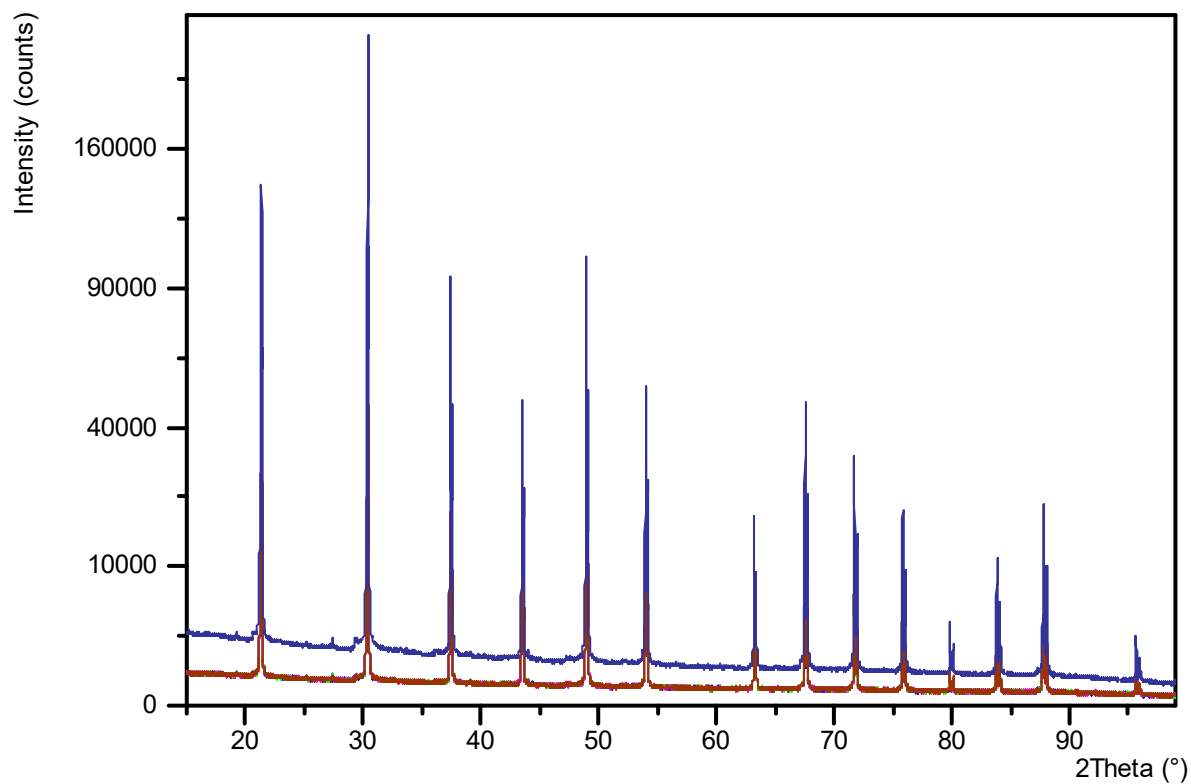
## Scan 4

Start time 11/08/2024 04:25:00  
stamp:  
End time 11/08/2024 05:45:50  
stamp:  
Scan axis: Gonio  
Scan range 14,9920 - 98,9995  
(°):  
Step size (°): 0,0084  
No. of 10054  
points:  
Scan mode: Continuous  
Phi (°): 0,0  
Counting 59,690  
time (s):

## Scan 5

Start time 11/08/2024 05:46:00  
stamp:  
End time 11/08/2024 07:06:50  
stamp:  
Scan axis: Gonio  
Scan range 14,9920 - 98,9995  
(°):  
Step size (°): 0,0084  
No. of 10054  
points:  
Scan mode: Continuous  
Phi (°): 0,0  
Counting 59,690  
time (s):

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- Scan 1
- Scan 2
- Scan 3
- Scan 4
- Scan 5
- Total scan