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Azurite R050638

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Record 2 of 2

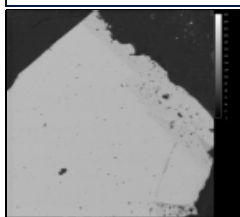


Name: Azurite
RRUFF ID: R050638
Ideal Chemistry: $\text{Cu}_3(\text{CO}_3)_2(\text{OH})_2$
Locality: Zacatecas, Mexico
Source: University of Arizona Mineral Museum 13399 [[view label](#)]
Owner: RRUFF
Description: Blue bladed crystals
Status: The identification of this mineral has been confirmed by X-ray diffraction and chemical analysis

Mineral Group: [Not in a structural group (133)]

Quick search: [All Azurite samples (2)]

CHEMISTRY



RRUFF ID: R050638.2
Sample Description: Microprobe Fragment
Measured Chemistry: $\text{Cu}_{3.00}(\text{CO}_3)_2(\text{OH})_2$
Microprobe Data File: [[Download Excel File](#)]

RAMAN SPECTRUM

RRUFF ID:

Sample Description: Sample is oriented and mounted on a pin

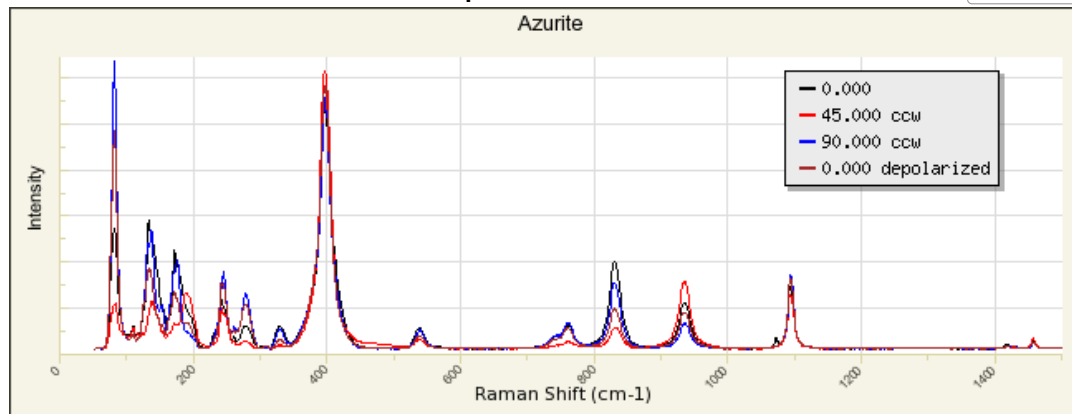
Pin ID: M00381

Orientation: Laser parallel to **a*** (1 0 0). Fiducial mark perpendicular to laser is parallel to **b** [0 1 0].

DOWNLOADS:

To download sample data, please select a specific orientation angle.

Direction of polarization of laser relative to fiducial mark:



X Min: X Max: X Sort:

BROAD SCAN WITH SPECTRAL ARTIFACTS


RRUFF ID: R050638



Wavelength:

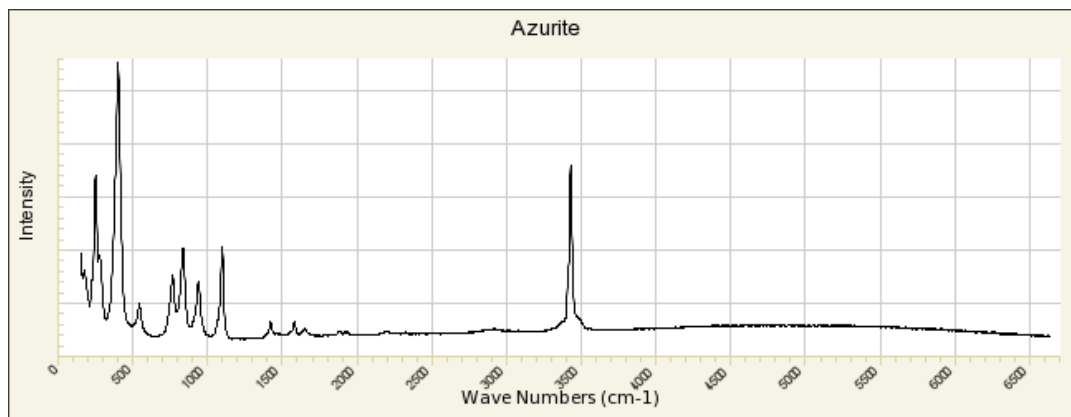
Sample Description: Unoriented sample

Instrument settings: Thermo Almega XR 532nm @ 100% of 150mW

DOWNLOADS:

 Raman Data (Processed)
RRUFF File

 Raman Data (RAW) 
RRUFF File



INFRARED SPECTRUM (Attenuated Total Reflectance)


RRUFF ID: R050638.1

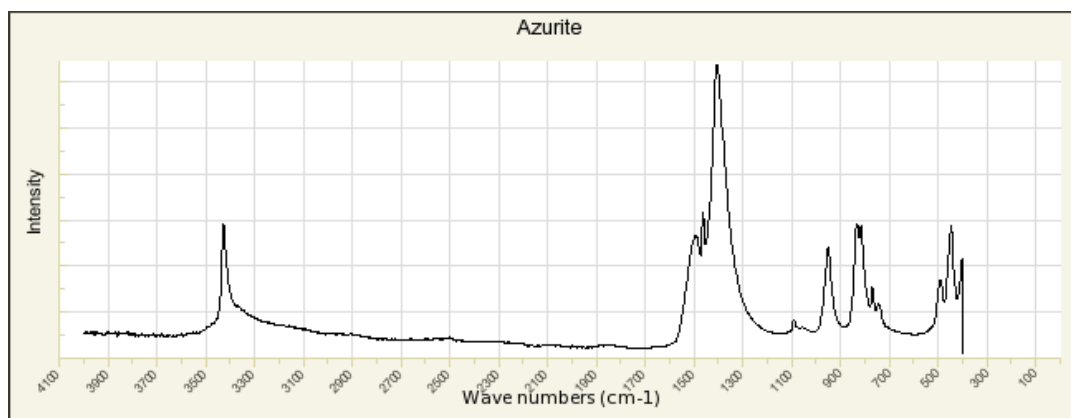
Sample Description: Powder

Instrument settings: SensIR Durascope on a Nicolet Magna 860 FTIR

Resolution:

DOWNLOADS:

 Infrared Data (Processed)
RRUFF File



X Min: X Max: X Sort:

POWDER DIFFRACTION


RRUFF ID: R050638.1


Sample Description: Powder


Cell Refinement Output: **a:** 5.00994(8)Å **b:** 5.84723(8)Å **c:** 10.3456(3)Å


alpha: 90.° **beta:** 92.447(2)° **gamma:** 90.° **Volume:** 302.793(8)Å³ **Crystal System:** monoclinic



DOWNLOADS:

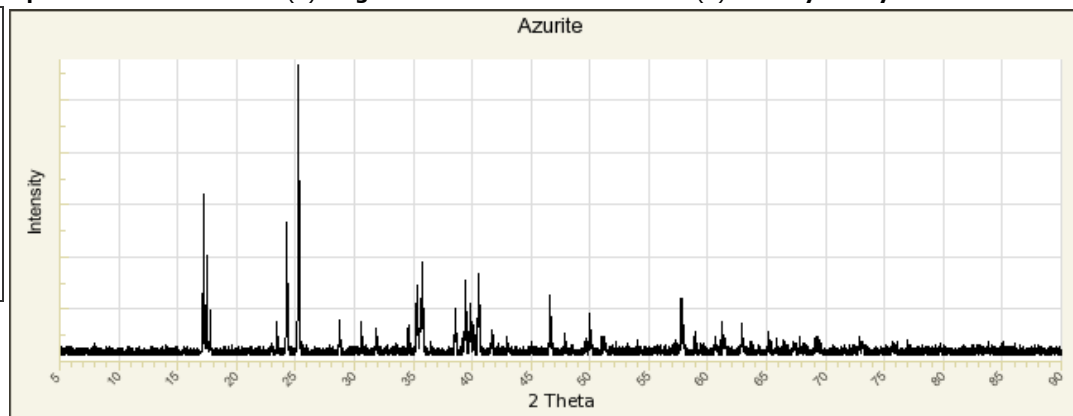
 Cell Refinement Data

 Cell Refinement Output Data

 DIF File

 X-ray Data (XY - Processed)
RRUFF File

 X-ray Data (XY - RAW) 
RRUFF File



X Min: X Max: X Sort:

REFERENCES for Azurite

American Mineralogist Crystal Structure Database Record: [\[view record\]](#)

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