

Electron Microprobe Data

Rruff ID: **R050501**

Mineral: **Wulfenite**

Locality: Los Lamentos, Chahuahua, Mexico

Weight Percents

Analysis	#1	#4	#6	#7	#10	#11	#13	#18	Average	StDev
CaO	0.01	0.02	0.03	0.03	0.02	0.00	0.01	0.03	0.02	0.01
MoO ₃	40.27	40.20	40.73	40.28	40.66	40.95	40.53	40.21	40.48	0.28
PbO	58.27	59.53	59.28	60.23	57.79	60.34	58.92	58.17	59.07	0.95
Totals	98.56	99.76	100.04	100.53	98.48	101.29	99.46	98.41	99.57	1.05

Cation numbers normalized to 4 Oxygens

	ACN	StDev	NCN	CNISF*
Mo	1.02	1.01	1.02	1.01
Pb	0.95	0.97	0.95	0.97
Cation	1.97	1.98	1.97	1.98

Ideal Chemistry: PbMoO_4

Calculated Chemistry: $\text{Pb}_{0.97}\text{Mo}_{1.01}\text{O}_4$

minor amounts of Ca

Instrument: Cameca SX50

Sample Voltage: 15 kV

Acceleration Current: 20 nA

Beam Size: spot

Date of Analysis: 05/05/2006

ACN: Average Number of Cations

NCN: Normalized Cation Numbers = $\text{ACN}^2/1.97$

StDev: Standard Deviation

CNISF* = cation numbers in structural formulae and charge balanced

Microprobe Calibration Data

Xtal	El	Line	Pk(s)	Bkg(s)	Bkg(+)	Bkg(-)	Standards
PET	Ca	Ka	20	10	500	-500	diopside
PET	Mo	Ka	20	10	300	-500	wulfenite
LIF	Pb	La	20	10	300	-500	wulfenite