

Electron Microprobe Data

Rruff ID: **R050271**

Mineral: **Paralaurionite**

Locality: Tiger, Pinal County, Arizona, USA

Weight Percents

| Analysis | #2 | #3 | #4 | #6 | #10 | #13 | #18 | #20 | Average | StDev |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|
| Cl | 11.43 | 11.18 | 10.73 | 11.19 | 11.52 | 11.58 | 11.43 | 10.92 | 11.25 | 0.30 |
| PbO | 87.45 | 86.41 | 88.11 | 87.41 | 87.1 | 87.31 | 85.93 | 86.81 | 87.07 | 0.68 |
| Totals | 98.88 | 97.59 | 98.84 | 98.6 | 98.62 | 98.89 | 97.36 | 97.74 | 98.32 | 0.64 |
| H ₂ O** | 1.12 | 2.41 | 1.16 | 1.40 | 1.38 | 1.11 | 2.64 | 2.26 | 1.69 | 0.64 |

** = calculated values

Cation number normalized to 1 (OH)

| | ACN | StDev | NCN* |
|-------|------|-------|------|
| Pb | 1.07 | 1.06 | 0.99 |
| Total | 1.07 | 1.06 | 0.99 |
| Cl | 1.13 | 1.11 | 0.98 |

Ideal Chemistry:

PbCl(OH)

Calculated chemistry:

(Pb_{0.96}?_{0.04})Cl(OH)

Microprobe Calibration Data

Instrument: Cameca SX50

Sample Voltage: 15 kV

Acceleration Current: 10 nA

Beam Size: 10 microns

Date of Analysis: 05/05/2006

ACN: Average Number of Cations

NCN*: Renormalized Cation Numbers for Cl = 1 (NCN* = ACN*1/1.09)

StDev: Standard Deviation

| Xtal | El | Line | Pk(s) | Bkg(s) | Bkg(+) | Bkg(-) | Standards |
|------|----|------|-------|--------|--------|--------|-----------|
| PET | Cl | Ka | 20 | 10 | 600 | -600 | scap-s |
| LIF | Pb | La | 20 | 10 | 300 | -500 | wulfenite |