

Crystal Data: Orthorhombic. *Point Group:* *mm*2. As blades flattened on {010} and probably elongated along [001], to 200 μm.

Physical Properties: *Cleavage:* Perfect on {010}. *Tenacity:* Brittle. *Fracture:* Irregular. Hardness = 2-3 D(meas.) = n.d. D(calc.) = 6.987 Likely soluble in dilute HCl.

Optical Properties: Transparent. *Color:* Blue. *Streak:* Pale blue. *Luster:* Adamantine. *Optical Class:* Biaxial (-). α = [2.015] β = [2.065] γ = [2.070] (indices calculated). 2V(meas.) = 34(5)° *Orientation:* X = b, Y = c, Z = a. *Pleochroism:* X = pale blue, Y and Z = blue. *Absorption:* X < Y = Z.

Cell Data: *Space Group:* *Pca*2₁. a = 10.6522(7) b = 9.1630(5) c = 9.6011(7) Z = 4

X-ray Powder Pattern: Aga mine, Otto Mountain, near Baker, California, USA. 3.303 (100), 2.7472 (68), 1.7468 (40), 4.26 (28), 2.0814 (21), 2.0306 (17), 4.165 (14)

Chemistry:	(1)	(2)
PbO	65.91	67.86
CuO	7.75	8.06
TeO ₃	17.41	17.80
CO ₂	[4.33]	4.46
H ₂ O	[1.78]	1.83
Total	97.18	100.00

(1) Aga mine, Otto Mountain, near Baker, California, USA; average of 4 electron microprobe analyses, low analytical total ascribed to electron beam damage, H₂O and CO₂ calculated from stoichiometry; corresponds to Pb_{3.00}Cu²⁺_{0.99}Te⁶⁺_{1.01}O₅(OH)₂(CO₃). (2) Pb₃Cu²⁺Te⁶⁺O₅(OH)₂(CO₃).

Occurrence: A secondary phase formed by partial oxidation of tellurides, chalcopyrite and galena in quartz veins.

Association: Cerussite, Br-rich chlorargyrite, chrysocolla, goethite, khinite, markcooperite, muscovite, phosphohedyphane, timroseite, wulfenite.

Distribution: From the Aga mine, Otto Mountain, near Baker, California, USA.

Name: For the mine from which the first specimens were collected and for A.G. Andrews, from whose initials the name of the mine is derived.

Type Material: Natural History Museum of Los Angeles County, Los Angeles, California, USA (63590).

References: (1) Kampf, A.R., S.J. Mills, R.M. Housley, and J. Marty (2013) Lead-tellurium oxysalts from Otto Mountain near Baker, California: IX. Agaite, Pb₃Cu²⁺Te⁶⁺O₅(OH)₂(CO₃), a new mineral with CuO₅-TeO₆ polyhedral sheets. *Amer. Mineral.*, 98, 512-517.