©2001-2005 Mineral Data Publishing, version 1

Crystal Data: Tetragonal. Point Group: 4/m 2/m 2/m. Compact massive, columnar.

Physical Properties: Cleavage: [$\{001\}$, perfect] (by analogy to bismoclite). Tenacity: [Very plastic.] Hardness = [2-2.5] D(meas.) = 6.4-6.5 D(calc.) = [7.70]

Optical Properties: Opaque. Color: Pale yellow. Optical Class: Uniaxial (-). $\omega = 1.91(1)$ $\epsilon = n.d.$

Cell Data: Space Group: P4/nmm. a = 3.85(1) c = 7.40(2) Z = 2

X-ray Powder Pattern: Tazna, Bolivia. 2.66 (s), 1.672 (s), 2.72 (ms), 1.562 (ms), 7.35 (m), 1.259 (m), 3.70 (w)

Chemistry:

	(1)	(2)
Fe_2O_3	0.72	
$\operatorname{Bi}_2\operatorname{O}_3$	89.60	92.74
Cl	7.50	7.06
H_2O	3.84	1.79
$-\mathcal{O}=\mathcal{Cl}_2$	1.69	1.59
Total	99.97	100.00

(1) Tazna, Bolivia. (2) BiO(OH, Cl) with OH:Cl = 1:1.

Occurrence: A secondary mineral formed by alteration of bismuth or bismuthinite, intermixed with "clay" (Tazna, Bolivia).

Association: Kaolinite (?).

Distribution: From the Constancia mine, Tazna, Bolivia.

Name: For Gabriel Auguste Daubrée (1814–1896), French mineralogist and geologist.

Type Material: National Museum of Natural History, Paris, France, 94.247.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 60–62. (2) Bannister, F.A. (1935) The crystal-structure of the bismuth oxyhalides. Mineral. Mag., 24, 49–58.