**Crystal Data**: Monoclinic. *Point Group*: 2/m. As clusters to 3 mm of radiating fiber bundles to 1 mm. Fiber bundles twist and merge near their ends, forming simple prisms flattened on (100) and elongated along [010] with terminal crystal faces.

**Physical Properties**: Cleavage: n.d. Tenacity: Brittle. Fracture: Splintery. Hardness = n.d. D(meas.) = n.d. D(calc.) = 3.648 Nonfluorescent. Transforms to metatamboite reversibly with changes in ambient humidity. Visually indistinguishable from metatamboite.

**Optical Properties**: Semi-translucent. *Color*: Pale yellow. *Streak*: Very pale yellow to colorless. *Luster*: Greasy to vitreous. *Pleochroism*: Colorless to pale yellow. *Optical Class*: Biaxial. n(calc.) = 1.874

**Cell Data**: Space Group:  $P2_1/c$ . a = 16.879(10) b = 7.310(4) c = 16.666(9)  $\beta = 108.857(11)$ ° Z = 4

## X-Ray Diffraction Pattern: Calculated pattern.

16.068 (100), 3.425 (9), 2.999 (8), 3.171 (6), 2.853 (5), 4.153 (4), 3.943 (4)

## **Chemistry**:

	(1)	(2)
$TeO_2$	63.90	59.38
$Fe_2O_3$	[24.14]	22.28
$Al_2O_3$	0.75	
$SO_3$	5.84	7.45
$SeO_3$	0.63	
$H_2O$	[11.41]	10.89
Total	106.67	100.00

(1) Tambo mine, Coquimbo Province, Chile; average electron microprobe analysis supplemented by IR spectroscopy, Fe<sub>2</sub>O<sub>3</sub> and H<sub>2</sub>O calculated from structure; cations correspond to  $(Fe^{3+}_{3.10}Al_{0.15})_{\Sigma=3.25}$   $(S^{6+}_{0.75}Se^{6+}_{0.05})_{\Sigma=0.80}Te^{4+}_{4.11}$ . (2)  $Fe^{3+}_{3}(OH)(H_{2}O)_{2}(SO_{4})(Te^{4+}O_{3})_{3}[Te^{4+}O(OH)_{2}](H_{2}O)_{3}$ .

Occurrence: In the interstices of silicified epithermal hydrothermal breccias of dacitic tuff.

**Association**: Alunite, rodalquilarite, emmonsite, poughite, mackayite, scorodite, paratellurite, tellurite, baryte, gold, native tellurium.

**Distribution** From the Tambo mine (Windy pit), Coquimbo Province, Chile.

**Name:** For the *Tambo* mine, where the studied material was collected.

Type Material: Royal Ontario Museum, Toronto, Canada (M57171).

**References**: (1) Cooper, M.A., F.C. Hawthorne, Y.A. Abdu, P.C. Walford, and M.E. Back (2019) Relative humidity as a driver of structural change in three new ferric-sulfate-tellurite hydrates: New minerals tamboite and metatamboite, and a lower-hydrate derivative, possibly involving direct uptake of atmospheric {H<sub>2</sub>O}<sub>4</sub> clusters. Can. Mineral., 57, 605-635.