©2001-2005 Mineral Data Publishing, version 1

**Crystal Data:** Hexagonal. *Point Group:* n.d. Minute scales, aggregated in warty to stalactitic crusts.

**Physical Properties:** Hardness = 3, on compact material. D(meas.) = 3.9D(calc.) = 4.01

**Optical Properties:** Semitransparent. *Color:* Yellow to brown; dark yellow in thin section. *Optical Class:* Uniaxial (–).  $\omega = 2.06 \quad \epsilon = 2.05$ 

**Cell Data:** Space Group: n.d. a = 5.045 c = 14.63 Z = 2

**X-ray Powder Pattern:** Moctezuma mine, Mexico. 3.256 (10), 2.518 (7), 4.871 (4), 2.239 (3), 1.564 (3), 1.457 (3), 1.994 (2)

Chemistry:		(1)	(2)
	$TeO_3$	45.1	45.10
	${\rm TeO}_2$	trace	
	$Fe_2O_3$	41.1	41.02
	$Mn_2O_3$	$\sim 0.4$	
	PbO	0.0	
	$H_2O$	13.6	13.88
	Total	100.2	100.00

(1) Moctezuma mine, Mexico; average of three analyses, total Mn as  $Mn^{3+}$ ,  $H_2O$  by the Penfield method on a separate sample. (2)  $Fe_2TeO_6 \bullet 3H_2O$ .

**Occurrence:** Very rare in oxidized ore in a matrix of intensely silicified and brecciated rhyolite vitrophyre cemented by drusy quartz and carrying pyrite and tellurides.

Association: Eztlite, emmonsite, schmitterite, kuranakhite, pyrite.

**Distribution:** From the Moctezuma (Bambolla) mine, 12 km south of Moctezuma, Sonora, Mexico.

Name: From the Nahua language for something yellow, in allusion to the color.

Type Material: The Natural History Museum, London, England, 1984,467.

**References:** (1) Willams, S.A. (1982) Cuzticite and eztlite, two new tellurium minerals from Moctezuma, Mexico. Mineral. Mag., 46, 257–259. (2) (1983) Amer. Mineral., 68, 471 (abs. ref. 1).