Eztlite \( \text{Pb}_2\text{Fe}_{6}^{3+}(\text{Te}^{4+}\text{O}_3)_3(\text{Te}^{6+}\text{O}_6)(\text{OH})_{10}\cdot8\text{H}_2\text{O} \)

\[ \text{Crystal Data: } \text{Monoclinic (?)}. \text{ Point Group: } \text{n.d.} \text{ As paper-thin sparkling crusts.} \]

\[ \text{Physical Properties: } \text{Cleavage: } \{001\}, \text{ probable, good.} \text{ Tenacity: } \text{Very brittle.} \text{ Hardness = 3} \text{ D(meas.) = 4.5} \text{ D(calc.) = 4.6} \]

\[ \text{Optical Properties: } \text{Semitransparent.} \text{ Color: Brilliant red; deep cloudy orange in transmitted light.} \text{ Streak: Orange.} \text{ Optical Class: Biaxial.} \text{ Orientation: } Z \wedge c = 3^\circ. \text{ } \alpha = 2.14 \text{ } \beta = \text{n.d.} \text{ } \gamma = 2.15 \text{ } 2\text{V(meas.) = n.d.} \]

\[ \text{Cell Data: } \text{Space Group: } \text{n.d.} \text{ } a = 6.58 \text{ } b = 9.68 \text{ } c = 20.52 \text{ } \beta = 90^\circ15' \text{ } Z = 2 \]

\[ \text{X-ray Powder Pattern: } \text{Moctezuma mine, Mexico.} \text{ 3.426 (10), 3.289 (10), 4.037 (9), 3.239 (9), 2.445 (7), 5.130 (6), 2.613 (6)} \]

\[ \text{Chemistry:} \]

\[
\begin{array}{ccc}
\text{TeO}_3 & 8.6 & 9.68 \\
\text{TeO}_2 & 26.8 & 26.39 \\
\text{Fe}_2\text{O}_3 & 24.3 & 26.41 \\
\text{PbO} & 25.5 & 24.61 \\
\text{H}_2\text{O} & 12.3 & 12.91 \\
\hline
\text{Total} & 97.5 & 100.00 \\
\end{array}
\]

(1) Moctezuma mine, Mexico; \text{H}_2\text{O} by the Penfield method, low analytical total likely caused by insoluble lost following acid digestion. (2) \text{Pb}_2\text{Fe}_{6}(\text{Te}^{4+}\text{O}_3)_3(\text{Te}^{6+}\text{O}_6)(\text{OH})_{10}\cdot8\text{H}_2\text{O}.

\[ \text{Occurrence: } \text{Very rare in oxidized ore in a matrix of intensely silicified and brecciated rhyolite vitrophyre cemented by drusy quartz and carrying pyrite and tellurides.} \]

\[ \text{Association: } \text{Cuzticite, emmonsite, schmitterite, kuranakhite, pyrite.} \]

\[ \text{Distribution: } \text{From Moctezuma (Bambolla) mine, 12 km south of Moctezuma, Sonora, Mexico.} \]

\[ \text{Name: } \text{From the Nahua language for blood, in allusion to the color.} \]

\[ \text{Type Material: } \text{The Natural History Museum, London, England, 1984,468.} \]