

**Crystal Data:** Triclinic. *Point Group:*  $\bar{1}$ . Crystals thin tabular on (010), to 0.2 mm; also as irregular or sheaf-like aggregates, to 0.5 mm.

**Physical Properties:** *Cleavage:* Perfect on {010}. *Tenacity:* Very brittle. *Fracture:* Uneven. Hardness = 2-3 D(meas.) = n.d. D(calc.) = 3.213

**Optical Properties:** Translucent. *Color:* Greenish yellow to yellowish green. *Streak:* White. *Luster:* Vitreous.

*Optical Class:* Biaxial (n.d.).  $\alpha = 1.595(30)$   $\beta = \text{n.d.}$   $\gamma = 1.665(20)$ . *Pleochroism:* weak, colorless to pale green.

**Cell Data:** Space Group:  $P\bar{1}$ .  $a = 6.441(3)$   $b = 7.983(4)$   $c = 10.562(3)$   $\alpha = 85.28(4)^\circ$   
 $\beta = 80.63(5)^\circ$   $\gamma = 84.80(4)^\circ$   $Z = 1$

**X-ray Powder Pattern:** Lahóca Hill, Recsk, Mátra Mountains, northern Hungary.

10.39 (100), 2.916 (64), 2.708 (29), 3.616 (28), 3.050 (28), 3.956 (27), 3.110 (24), 7.95 (22)

<b>Chemistry:</b>	(1)
MnO	5.67
CuO	32.03
CaO	0.41
As <sub>2</sub> O <sub>5</sub>	44.40
<u>H<sub>2</sub>O</u>	<u>17.49</u>
Total	100.00

(1) Lahóca Hill, Recsk, Mátra Mountains, northern Hungary; average of 7 electron microprobe analyses, H<sub>2</sub>O calculated from stoichiometry; corresponds to  $(\text{Mn}_{0.82}\text{Cu}_{0.10}\text{Ca}_{0.08})_{\Sigma=1.00}\text{Cu}_{4.05}\text{As}_{3.98}\text{O}_{14}(\text{OH})_2 \cdot 9\text{H}_2\text{O}$ .

**Mineral Group:** Lindackerite group.

**Occurrence:** Formed by the weathering induced decomposition of enargite in material from the ore dumps of an epithermal high-sulphidation Cu-Au-As mineral deposit.

**Association:** Enargite, quartz, gypsum, jarosite.

**Distribution:** From the Lejtakna area, Lahóca Hill, Recsk, Mátra Mountains, northern Hungary.

**Name:** Honors Sándor Klaj (b. 1948), the Hungarian mineral collector who provided the first specimens.

**Type Material:** Herman Ottó Museum, Miskolc (2010.1) and the Hungarian Natural History Museum (Gyn./1842), Budapest, Hungary.

**References:** (1) Szakáll, S., B. Fehér, S. Bigi, and F. Mádai (2011) Klajite from Recsk (Hungary), the first Mn-Cu arsenate mineral. *Eur. J. Mineral.*, 23, 829-835. (2) (2012) *Amer. Mineral.*, 97, 1819 (abs. ref. 1).