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Crystal Data: Orthorhombic. *Point Group:* $2/m \ 2/m \ 2/m$. Dipyramidal crystals, to 0.2 mm, epitaxially overgrown by scorodite; typically in crusts.

Physical Properties: Hardness = 3.5-4 VHN = 571-743, 631 average (25 g load). D(meas.) = n.d. D(calc.) = 3.876(3)

Optical Properties: Semitransparent. *Color:* Pale green to yellow-green; colorless in transmitted light. *Streak:* White. *Luster:* Vitreous.

Optical Class: Biaxial (+). Orientation: X = a; Y = c; Z = b. n = 1.65 $2V(meas.) = 55^{\circ} - 76^{\circ}$

Cell Data: Space Group: Pbca. a = 10.446(6) b = 9.085(4) c = 10.345(6) Z = 8

X-ray Powder Pattern: Mangabeira deposit, Brazil.

 $4.53\ (100),\ 5.70\ (70),\ 3.874\ (60),\ 3.250\ (60),\ 4.163\ (50),\ 3.110\ (50),\ 5.16\ (40)$

Chemistry:

	(1)	(2)
$\mathrm{As_2O_5}$	40.10	39.66
In_2O_3	45.80	47.91
Al_2O_3	0.21	
Fe_2O_3	1.11	
H_2O	[12.78]	12.43
Total	[100.00]	100.00

(1) Mangabeira deposit, Brazil; by electron microprobe, average of 12 determinations on several crystals, H_2O by difference; corresponds to $(In_{0.94}Fe_{0.04}Al_{0.01})_{\Sigma=0.99}As_{1.00}O_4 \cdot 2.02H_2O$. (2) $InAsO_4 \cdot 2H_2O$.

Mineral Group: Variscite group.

Occurrence: A rare secondary mineral replacing arsenopyrite in quartz-topaz greisen veins in granite.

Association: Scorodite, arsenopyrite, indium-rich sphalerite, topaz, cassiterite.

Distribution: From the Mangabeira tin deposit, near Passa e Fica, Goiás, Brazil.

Name: For the Yanomami Indians, residents of the Amazon basin.

Type Material: Institute of Geosciences, University of Brasilia, Brasilia, Brazil; National School of Mines, Paris, France.

References: (1) Botelho, N.F., G. Roger, F. d'Yvoire, Y. Moëlo, and M. Volfinger (1994) Yanomamite, InAsO₄•2H₂O, a new indium mineral from topaz-bearing greisen in the Goiás tin province, Brazil. Eur. J. Mineral., 6, 245–254. (2) (1995) Amer. Mineral., 80, 186 (abs. ref. 1).