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Crystal Data: Tetragonal. *Point Group:* 4mm. As tablets, thin $\bot \{001\}$, to 5 mm, and in lamellar to granular aggregates.

Physical Properties: Cleavage: $\{001\}$, good; a parting inclined to $\{001\}$ suspected. Hardness = 2-3 D(meas.) = 7.70 D(calc.) = 8.186

Optical Properties: Opaque, transparent through thin edges. *Color:* Deep reddish brown; blood-red in transmitted light. *Streak:* Orange. *Luster:* Submetallic. *Optical Class:* Uniaxial (-); low birefringence. R_1-R_2 : n.d.

Cell Data: Space Group: P4mm. a = 3.92 c = 15.31 Z = 1

X-ray Powder Pattern: Långban, Sweden. (ICDD 27-271). 2.76 (100), 2.71 (100), 3.90 (60), 1.590 (60), 3.77 (40), 1.566 (40), 2.24 (35)

Chemistry:		(1)		(1)
	$\mathrm{Fe_2O_3}$	22.01	Na_2O	0.38
	FeTiO_3	0.20	K_2O	0.17
	FeO	0.22	Cl	2.17
	MnO	0.29	$\mathrm{H_2O^+}$	0.73
	PbO	73.26	$-O = Cl_2$	0.49
	$_{ m MgO}$	0.06	insol.	0.42
	CaO	0.26	Total	99.68

(1) Jakobsberg, Sweden; average of two analyses, corresponding to $(Pb_{3.59}Na_{0.13}Ca_{0.05}K_{0.04})_{\Sigma=3.81}(Fe_{3.01}^{3+}Mn_{0.05}Fe_{0.05}^{2+}Mg_{0.02}Ti_{0.01})_{\Sigma=3.14}O_{8.49}H_{0.88}Cl_{0.67}.$

Occurrence: In a metamorphosed banded Fe–Mn ore deposit in dolostone (Jakobsberg, Sweden).

Association: Plumboferrite, jacobsite, andradite, copper, cuprite, cerussite, calcite (Jakobsberg, Sweden); copper, jacobsite, hematite, damaraite (Kombat mine, Namibia).

Distribution: From Jakobsberg and Långban, Värmland, Sweden. From Reichelsdorf, Hesse, Germany, in slag. In the Kombat Cu–Pb–Ag mine, 49 km south of Tsumeb, Namibia.

Name: From the Greek for *blood* and *visible*, presumably for the blood-red color exhibited in transmitted light.

Type Material: Swedish Museum of Natural History, Stockholm, Sweden.

References: (1) Palache, C., H. Berman, and C. Frondel (1944) Dana's system of mineralogy, (7th edition), v. I, 728–729. (2) Rouse, R.C. (1973) Hematophanite, a derivative of the perovskite structure. Mineral. Mag., 39, 49–53. (3) Pannetier, J. and P. Batail (1981) Pb₄Fe₃O₈Cl: synthesis, crystal structure, and thermal expansion. J. Solid State Chem., 39, 15–21.