

Crystal Data: Monoclinic, pseudo-orthorhombic. *Point Group:* 2. As minute thin tabular crystals, typically in spherulitic aggregates, to 3 mm.

Physical Properties: *Cleavage:* {001}, perfect; {100} and {010}, observed. Hardness = 1.5
D(meas.) = 2.33–2.35 D(calc.) = [2.20]

Optical Properties: Semitransparent. *Color:* Colorless, pale yellow; colorless in transmitted light. *Luster:* Vitreous, pearly on cleavages.
Optical Class: Biaxial (+). *Orientation:* X ≈ a; Y = b; Z = c. *Dispersion:* r > v. α = 1.516(3)
β = 1.518(3) γ = 1.533(5) 2V(meas.) = 48(2)°

Cell Data: *Space Group:* P2₁. a = 13.026(1) b = 10.015(1) c = 11.115(1)
β = 104.34(1)° Z = 4

X-ray Powder Pattern: Baia Sprie, Romania.
4.79 (10), 4.64 (10), 2.27 (5), 3.67 (4), 2.71 (4), 2.45 (4), 5.96 (3)

Chemistry:	(1)	(2)
SO ₃	16.47	17.95
Al ₂ O ₃	45.63	45.71
H ₂ O	37.27	36.34
Total	99.37	100.00

(1) Baia Sprie, Romania; average of two analyses. (2) Al₄(SO₄)(OH)₁₀•4H₂O.

Occurrence: A rare product of oxidation of marcasite ores.

Association: Marcasite, stibnite, barite, quartz.

Distribution: In Romania, from Cavnic (Kapnikbánya), near Baia Sprie.

Name: For Baia Sprie, Romania (formerly Felsőbánya, Hungary).

Type Material: Natural History Museum, Vienna, Austria, A.x.323.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 585. (2) Koch, S. and I. Sarudi (1964) Data on felsőbányaite. Acta Mineral. Petrog. Univ. Szegediensis, 16, 49–53. (3) Farkas, L. and F. Pertlik (1997) Crystal structure determinations of felsőbányaite and basaluminite, Al₄(SO₄)(OH)₁₀•4H₂O. Acta Mineral. Petrog. Univ. Szegediensis, 38, 5–15.