

## Andorit IV a andorit VI z Dúbravy v Nízkyh Tatrách (Slovenská republika)

Andorite IV and andorite VI from the Dúbrava deposit in the Nízke Tatry Mts. (Slovak Republic)

DANIEL OZDÍN<sup>1)</sup> A JIŘÍ SEJKORA<sup>2)</sup>

<sup>1)</sup> Univerzita Komenského v Bratislave, Prírodovedecká fakulta, Katedra mineralógie a petrológie, Mlynská dolina, 842 15 Bratislava 4, Slovenská republika

<sup>2)</sup> Národní muzeum, Václavské náměstí 68, 115 79 Praha 1

OZDÍN D., SEJKORA V. (2009): Andorit IV a andorit VI z Dúbravy v Nízkyh Tatrách (Slovenská republika). - *Bull. mineral.-petrolog. Odd. Nár. Muz. (Praha)* **17/1**, 65-68. ISSN: 1211-0329.

### Abstract

The first occurrence of Ag-Pb-Sb sulphosalts was described from Sb mineralization in Tatric Unit in the Western Carpathians. Rare microscopic grains of andorites up to 0.05 mm were identified in antimony deposit Dúbrava (Nízke Tatry Mts., Central Slovakia). Andorites forms inclusions in stibnite. According to microprobe analyses andorite IV and andorite VI were distinguished. Crystallochemical formulas of andorites are following: andorite IV:  $(\text{Ag}_{13.40}\text{Cu}_{2.89})_{\Sigma 16.29}(\text{Pb}_{15.69}\text{Cd}_{0.42}\text{Fe}_{0.08}\text{Zn}_{0.05}\text{Hg}_{0.02})_{\Sigma 16.26}(\text{Sb}_{45.92}\text{Bi}_{0.09})_{\Sigma 46.01}(\text{S}_{97.31}\text{Cl}_{0.12})_{\Sigma 97.43}(\text{And}_{95.88})$  and andorite VI:  $(\text{Ag}_{0.76}\text{Cu}_{0.24})_{\Sigma 1.00}(\text{Pb}_{0.99}\text{Cd}_{0.02})_{\Sigma 1.01}(\text{Sb}_{3.03}\text{Bi}_{0.01})_{\Sigma 3.04}(\text{S}_{5.94}\text{Cl}_{0.01})_{\Sigma 5.95}(\text{And}_{100.17})$ . Cu content in andorite VI (1.73 wt. %, 0.24 *apfu*) is the highest content measured value this element in andorites up to now. Andorite substitution  $\text{And}_{96.50}$  is yet highest relevant amount of substitution in andorite IV. Ag-Pb-Sb sulphosalts represented Sb-rich members of lillianite homeotypic series (<sup>4</sup>L) crystallized in final stage after precipitation of stibnite. No further minerals were identified in this mineral assemblage. For andorite IV it is the first occurrence of this mineral in the Slovak Republic.

**Key words:** andorite, lillianite homeotypic series, microprobe analyses, stibnite deposit, Dúbrava, Nízke Tatry Mts., Slovak Republic