SDĚLENÍ O VÝZKUMU/LETTER

Nadorit, $PbSb^{3+}O_2Cl$, z rudních žil kutnohorského revíru - první výskyt v České republice

Nadorite, $PbSb^{3+}O_2Cl$, from ore veins of the Kutná Hora ore district - the first occurrence in Czech Republic

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Abstract

A rare oxychloride of lead and antimony, the mineral nadorite, was found in an ore sample from the Kutná Hora ore district, Central Bohemia. It is the first occurrence of this mineral in Czech Republic. The mineral was identified in a polished section as a dark elongated grain approximately 30 μm accros, enclosed in boulangerite in association with galena. The chemical composition of nadorite is close to the ideal formula of this mineral with only minor contents of As (0.02 - 0.04 *apfu*) which probably substituted Sb. The average chemical composition (mean of 3 point analyses) of nadorite: Pb 51.88, Sb 31.45, As 0.61, $O_{calc.}$ 8.31, Cl 9.25, total 101.51 wt. %, corresponds to the empirical formula $Pb_{0.97}(Sb_{1.00}As_{0.03})_{\Sigma 1.03}O_{2.00}Cl_{1.01}$ on the basis of Pb+Sb+As+Cl = 3 *apfu*.

Key words: *nadorite, $PbSb^{3+}O_2Cl$, chemical compositon, Kutná Hora ore district, Czech Republic*

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