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Aurihydrargyrumite from the Otakar (Otokar, Ottokar) vein near Gelnica, Spišsko-gemerské rudohorie Mts., Slovakia, a new occurrence of natural Au_6Hg_5

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Abstract

Aurihydrargyrumite, ideally Au_6Hg_5 was discovered at the dump of the Žigmund adit, Otakar (Otokar, Ottokar) hydrothermal siderite-type vein near Gelnica, Spišsko-gemerské rudohorie Mts., Gelnica Co., Košice Region, Slovakia. It occurs as anhedral grains up to 28 μm in size associated with cinnabar and tetrahedrite-(Hg). The average ($n = 7$) empirical formula of studied aurihydrargyrumite corresponds to $(\text{Au}_{5.96}\text{Ag}_{0.04})_{\Sigma 6.00}\text{Hg}_{5.00}$. This find is representing the third occurrence of this rare mineral in nature.

Key words: aurihydrargyrumite, chemical composition, Gelnica, Gemeric Unit, Spišsko-gemerské rudohorie Mts., Slovak Republic

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