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**PETROGRAPHIC CHARACTERISTICS OF THE NEOGENE LAVA DOME
AROUND SAĞLIK AND YATAĞAN AREA, KONYA/TURKIYE**

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ABSTRACT

To the west of Konya, an extensive lava dome has formed as a component of Neogene Erenlerdagi volcanism, possibly resulting from assimilation-fractional crystallization and/or magma mixing processes associated with subduction. Petrographic studies show that the phenocryst phase of the lava is represented by plagioclase (15-45%), amphibole (3-15%), opaque iron ore (3-20%), rare brown biotite (5-10%), quartz (0-5%), sanidine (0-5%), clinopyroxene (0-5%), and epidote (0-8%). The matrix is primarily composed of plagioclase, pyroxene, epidote, opaque iron ore, and occasional volcanic glass. The lava contains Mafic Microcrystalline Enclaves (MME). A chilly zone may develop between MME and its host, containing phenocrystals of plagioclase (25%) and amphibole (5%).

Keywords: Neogene, volcanism, lava, Konya
