Screening studies for antioxidant properties of plants have been performed increasingly the last few decades in hope of finding an efficient remedy for several present-day diseases and means to delay aging symptoms [1]. Reactive oxygen species (ROS) are produced in metabolic and physiological processes, and harmful oxidative reactions may occur in organisms that remove them via enzymatic and non-enzymatic antioxidative mechanisms [2]. Antioxidant molecules prevent or inhibit these harmful reactions [3].

In our study, it is aimed to determine the total antioxidant status of bulbous endemic plants collected from Munzur Valley in Tunceli city. For this purpose, underground and areal parts of the plants *Bellevalia gracilis* Feinbrun, *Muscari aucheri* (Boiss.) Baker ve *Tulipa armena* Boiss. var. *lycica* (Baker) Marais were removed and total antioxidant status was determined by using different solvents (hexane, ethanol, methanol and water) and Total antioxidant Status Assay Kit (TAS) (lot:RL024). The highest total antioxidant status was found in the leaves of *Bellevalia gracilis* after extraction with hexane, ethanol and methanol.

KEY WORDS: Tunceli, Munzur Valley, Endemic geophyte, TAS

REFERENCES: