The suitability of three different methods such as : RP (Power Reduction), DPPH free radical scavenging method, and cationic scavenging method. ABTS • + was assessed to determine the antioxidant activities of various garlic samples. Allium plants were chosen because of their high antioxidant potential.

Furthermore, the water/methanol ratio of (50/50) and the pure methanol showed significant antiradical activities for the three tests used with the lowest inhibitory concentration (IC_{50}) values. In addition, the activities of these extracts were found to be superior where the limit closes to those of the reference antioxidants such as vitamin C or trolox.

Also, it has been found that the values of DPPH IC_{50} and ABTS IC_{50} are strongly correlated with flavonoids content relative to total polyphenols in particular, for the DPPH test. In addition, a low correlation was observed between RP0.5 and the phenol content. The evaluation of these three variables and their correlations can serve as an index to effectively measure the antioxidant activity of Allium extracts.