

ABSTRACT

The current research work was carried out to determine the antimicrobial activity of bioactive plant metabolites of *Glycyrrhiza glabra*. The plant *Glycyrrhiza glabra* belongs to family leguminosae and is one of the most important medicinal plants. Usually its root is used for the medicinal purposes. Extraction was extracted by solvent extraction method. Phytochemical tests on ethanolic and chloroformic extracts of powdered root indicated the presence of alkaloids, tannins, flavonoids, steroids and saponins. The two important bioactive metabolites including glycyrrhizin (a triterpenoid saponin) and flavonoid (glabridin) were separated by two different methods. Their purification was carried out by TLC and phytochemical analysis. The antimicrobial activity of these two secondary metabolites was measured against some commonly present bacterial and fungal strains. Both metabolites showed better antimicrobial results.