**Phytochemical and Antioxidant Activity of Asplenium Species (Spleenworts) Extracts from Northern Districts of Iraq**

**Abstract** - The main objective of the present investigation was to ascertain of different phytochemicals in two ferns: Asplenium scolopendrium L. from Malakan- Erbil district and A. trichomanes L. from Tweela-Sulaymaniyyah district during Spring 2016. Antioxidant activity and total flavonoids contents were determined in methanol extracts. In qualitative analysis, the active compounds such as alkaloids, tanins, saponins and flavonoids were screened. In quantitative analysis, total flavonoids were quantified 234.7 µg /ml with IC50 of 113 mg/ml in A. scolopendrium but in A. trichomanes total flavonoids 1061µg/ml with IC50 of 2.271 mg/ml comparison with Ascorbic acid IC50 of 0.0186 mg/ml as positive control.

**Keywords** - Aspleniaceae, phytochemistry, Flavonoids, Antioxidant