



## Isolation of some active materials and aqueous, alcoholic extracts of the plant (Gum Arabic) and study its activity against bacteria and tumors

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### Abstract

This study included isolation of some active materials from Gum Arabic such as tannins with percentage of 53% respectively. Also the study included the determination of minerals in Gum Arabic such as " Na, Ca and K" using Flame photometer. The concentrations of these minerals were (255 ppm),(100ppm) and (155 ppm) respectively. Also the study included the determination of materials in Gum Arabic such as "Ash, moisture and pH". The percentage of these materials were (2.92%),(12%) and (5.44) respectively. The anti-bacterial activity study was performed for the active materials isolated from Gum Arabic against two genus of pathogenic bacteria, Escherichia Coli and aureous Staphylococcus by using agar-well diffusion method. It appeared from this study that all of the extraction have inhibitory effect on bacteria was used. The inhibition zone diameter varies with the type of active compound, its concentration and the genus of bacteria. Has been the use of one type of cell lines of cancer to study the impact of Gum Arabic on the growth of cells in the laboratory and thus know the specifications of CAS anti tumor line cells, the user is (L20B) the cells of a mouse mutant (Mice Transformed cell Line).