Meetings International
SciTechnol

F Seyma Gokdemir et al., J Plant Physiol Pathol 2018, Volume: 6
DOI: 10.4172/2329-955X-C4-023

International Conference On

PLANT SCIENCE & MOLECULAR BIOLOGY

October 22-23, 2018 | Paris, France

Identification of *Mammillaria elongata* extract with biochemical parameters

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Mammillaria elongata is a species of Cactaceae family, native to central Mexico. In Turkey, it is grown as cultivated plant. The succulent plants have pink/red fruits. In this study, we investigated the protein content, sugar content, anti bacterial and anti fungal effect in fruit extract. According to the results, in the fruit with a total wet weight of 0,252 g, 15,5215 mg protein was found with Lowry method. The extract contains high amounts of reducing sugar such as glucose. Bacterial growth (*Escherichia coli and Pseudomonas aeruginosa on bloody agar*) and fungal colonization (*Fusarium oxysporum, Rhizoctonia solani, Sclerotinia sclerotiorum on PDA*) were not affected by plant extract. However, in all control media that contain only plant extract, pink colored, round shaped (*coccus*) slime organism growth was observed. Within possibilities; the observed organism could be living inside *M. elongata* fruit as probiotic as it contains high protein and carbohydrate or it might be a novel species. In future studies, the organism that was considered as bacteria, will be identified with 16S rRNA analysis.

Biography

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