

Investigation of Biochemical Properties of Components of the three Opuntia (*Opuntia ficus-indica*, *O. microdasys*, *O. basilaris*)

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Abstract Cacti are succulents, meaning they have thickened, fleshy parts adapted to store water. Cacti are native to the Americas, also grows in many parts of the world. *Opuntia* fruit is rich in antioxidant compounds that plant protection against environmental conditions. In order To study the biochemical properties of the components of the fruit and leaves of three species of cactus *Opuntia* (*Opuntia ficus-indica*, *O. microdasys*, *O. basilaris*) A completely randomized experimental design was done with 6 treatments and 3 repeats. Results showed that the leaves and fruits of *Opuntia ficus-indica* highest amount of carotenoids, chlorophyll a, b and total, In the leaves of *O. microdasys* most antioxidant capacity, anthocyanins, carotenoids, chlorophyll a, b and total, peroxidase, protein and In fruit *O. basilaris*, the lowest antioxidant capacity, anthocyanins, catalase, peroxidase, Brix index were observed.

Keywords : Keywords: *Opuntia*, Anthocyanins, Peroxidase, Carotenoids, Antioxidant.

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