

Studies on *Bryophyllum pinnatum* leaves powder and its fortification in snack product

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■ **ABSTRACT** : The *Bryophyllum pinnatum* is a medicinal plant. The family of *Bryophyllum pinnatum* is *Crassulaceae*. The native place of *Bryophyllum Pinnatum* is Madagascar. In *Bryophyllum pinnatum*, number of bioactive component is present such as alkaloids, triterpenes, lipids, flavonoids, glycosides, bufadienolides, saponin, phenols, and organic acid. *Bryophyllum pinnatum* is a medicinal plant and used as a treat the number of diseases like anthelmintic, wound healing, antioxidant activity and anti- inflammatory, etc. Mostly *Bryophyllum pinnatum* leaves used to treat Urinary Tract Infection. This research studied on the nutritional composition of the *Bryophyllum pinnatum* leaves powder after drying and its fortification into snack product. *Bryophyllum pinnatum* leaves is a good source of human nutrition and good dietary supplements. There are number of alternative drying methods will be used for the drying of the *Bryophyllum pinnatum* leaves instead of shade drying method. Alternative methods of drying are Microwave drying and tray drying. Tray drying will be carried out at different temperature at 40°C, 50°C, 60°C, 70°C and 80°C for specific time period 17hrs, 15hrs, 10hrs, 7hrs and 5hrs while microwave drying will be carried out at 70W, 140W, 210W and 280W. The *Bryophyllum pinnatum* leaves powder is fortified into the different food product like, bakery, confectionary, extruded products, snack product, etc. This food product shows nutritional as well as medicinal values it is called as nutraceutical food. The main objective of this research is drying study on leaves, nutritional composition and its fortification in snack product. For the preparation of *Bryophyllum pinnatum* leaves powder papdi 70°C temperature of tray drying is used on the basis of nutritional composition of tray drying leaves powder.

■ **KEY WORDS** : *Bryophyllum* leaves, Medicinal value, Nutritional composition, Drying methods, Nutritional composition

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