

CHAPTER 9

Phytochemical screening of *Bryophyllum pinnatum* and its cytotoxicity against *Artemia salina*

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ABSTRACT

Bryophyllum pinnatum is an indigenous and exotic plant, which belongs to the family of Crassulaceae which is growing widely in India, China, Australia, tropical Africa, tropical America and Madasagar region of the world. It is generally used as a folkloric medicine; however, 200 other species are found Africa, China and Java number of species cultivated as ornamental and are popular tropical house plant. In Ayurvedic science the plant is known as pranabeeja. It is commonly known as Air plant, Miracle leaf. In Europe, Rudolf Steiner introduce *Bryophyllum pinnatum* in anthropodopheric medicine for the first time in 1921. The local people of Southern India and Bengal it is used for the treatment of renal diesis. It is a succulent herb, leaves are variable and leaflets are elliptic and flowers are reddish purple color. The studies have been carried out to explore the medicinal value like wound healing property, vomiting, joint pain, cough, headache and diarrhea .It is easily cultivated in garden and house which shows the positive step towards the conservation of this plant for it various medicinal values. The phytochemical and Cytotoxicity activity shows its prarmological values.

Keywords : *Bryophyllum pinnatum*, bioactive compounds, cytotoxicity

9.1 INTRODUCTION

Bryophyllum pinnatum is a succulent perennial herb found in tropical region of the world. It belongs to the family of Crassulaceae and is known by numerous names like Miracle leaf, air leaf, life plant and Goethe plant (Jain *et al.* 2010).They grow all over the India in hot and moist region. The plant grows widely and used as folk medicine in tropical Africa, China, India, Australia, tropical America (Pawar and Dabhade 2018). *Bryophyllum pinnatum* is an herb that grows about 1 to 1.5 m in