



Isolation, Characterization & Phytochemical Screening, Analytical Method Development and Validation for the Determination of Catechins in *B.ciliata* by RP HPLC Method

NDVR Saradhi¹, N Madan Gopal¹, C Madhusudhna Chetty¹, K Sushmitha¹

¹Santhiram college of Pharmacy, NH – 40, Nerawada, Kurnool Dist, Andhra Pradesh, India

Abstract : Ayurveda, an ancient system of medicines detailing a number of medicinal plants and their activities in human or animals. The present research work was aimed to develop an analytical procedure for the determination of catechins in the selected plant - *B.Ciliata*. It is famously known as stone flower/ stone breaker having various biological activities like anti urolithiatic, antiviral, antidiabetic antitumor and cardio protective activity. The methanolic extract of the plant is isolated and a method is developed by using RP HPLC for the determination of catechins in the crude plant extract using a C₁₈ column (200*4.6mm, 5 μ) and detected at 241 nm. The method is validated for its system suitability, Linearity, Accuracy, Precision, Robustness and sensitivity as per the ICH guidelines Q2(R1) to meet the analytical procedure in academic and industrial usage¹⁹.

Key words : *B.Ciliata*, RP HPLC, Catechins, phytochemical Screening etc.

NDVR Saradhi et al //International Journal of PharmTech Research, 2020,13(2): 18-24.

DOI= <http://dx.doi.org/10.20902/IJPTR.2019.130203>
