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Antimicrobial Evaluation and Physicochemical Study of Chenopodiumalbum againstsomecommon Human Pathogens

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Abstract:In the present study, we have done antimicrobial study, physicochemicalevaluation of the *Chenopodium album(C.album)* leavesand roots. Antimicrobial activity was performed by agar well diffusion with six different strains i.e. *Klebsicella*, *P.acne*, *E.coli*, *P.aeruginosa*, *C.albicans*, *S.cerevisiae*. Preliminary phytochemical screening of the plant was done according to WHO parameters for standardization. Physicochemical parameters such as ash values, foreign matter, loss on drying etc. were also determined. The methanolic roots and leaves showed significant antimicrobial activity against *P.acne*, *S.cerevisiae*. Whereas ethyl acetate extract showed mildantimicrobial activity. From microscopy, it contains epidermis, endodermis, collenchymas, mesenchyma, xylem, phloem, and from powdered study it was found that calcium oxalate crystal, stone cells. The microscopic and physicochemical analysis of *C. album* leaf and root is useful in standization for quality, purity and sample identification. From the study, it was found that plant is having significant antimicrobial activity.

Keywords: Chenopodiumalbumum, antimicrobial activity, physicochemical parameters.

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