

Abstract:

This study was designed to investigate the antimicrobial activity of *Anthocephalus cadamba* of petroleum ether and alcoholic extracts. Crude drug, i.e. stem bark of *Anthocephalus cadamba* was collected from the road side, Bhuvaneshwari nagar ,Bangalore and dried in shade. The crude drug was authenticated by Dr Gopa kumar , Assistant director in charge, regional research institute ,(Ay.),Ashoka pillar, Bangalore. A voucher specimen No was RRCBI/MCW/8. The crude drug was packed in to a soxhlet apparatus and extracted with petroleum ether and alcohol for 18 h. further preliminary investigation of PEAC and AEAC showed the presence of alkaloids, tannins , steroids and soapnins.

The mediums used for antibacterial activity were Nutrient broth, Nutrient agar and for antifungal activity were Sabouraud Dextrose Broth (SDB), Tryptone Soya agar. Hi media laboratories, Mumbai, manufactured all mediums Antimicrobial activity of petroleum ether and alcoholic extract by agar well diffusion method for *Bacillus subtilis* ,*Escherichia coli*,*Candida albicans* and *Aspergillus niger*. For antibacterial activity, the different extracts are petroleum ether(10%,25%,50%,75%,100%) and alcoholic extract(10%,25%,50%,75%,100%) . At the same time standard ampicillin, 12 μ g, were to be added. one standard concentration, two different dilutions of extracts and negative control DMSO were to be added in each plate. For antifungal activity. Standard clotrimazole 200mg/ml , 100ml were to be added.. Each extract to be tested for thrice the results are cheked by a antibiotic scale reader.