

عنوان مقاله:

Anti-Nutritional/Nutritional Analysis and Anti-Microbial Investigation of the Ethanol Extract of the Stem Bark of the
(Leptadenia Hastata (Asclepiadaceae

محل انتشار:

فصلنامه روشهای تصفیه محیط, دوره 1, شماره 4 (سال: 1392)

تعداد صفحات اصل مقاله: 5

نویسندگان:

M. E. Khan - *Department of Chemistry Adamawa State University Mubi, P. M. B. ۲۵ Mubi, Nigeria. Corresponding author*

I Hanatu - *Department of Chemistry Adamawa State University Mubi, P. M. B. ۲۵ Mubi, Nigeria*

خلاصه مقاله:

The work seeks to determine the nutritional / anti-nutritional profile and ascertain the folkloric potential and the societal usage and value / properties of *Leptadenia hastata*. *Leptadenia hastata* (Asclepiadaceae) stem - bark extracted with 95% ethanol, showed presence of anti-nutrients; phytate and oxalate content less than is nutritionally significant, with traces of tannins while rich in protein and fats but low in ash. The anti-microbial activity of the extract using agar diffusion method showed zones of inhibition (mm) against some gram positive and gram negative bacteria; *Streptococcus pyogenes* (12.00 ± 0.01), *Staphylococcus aureus* (12.00 ± 0.01), *Escherichia coli*, (6.00 ± 0.02) and *Shigella dysenteriae* (11.00 ± 0.01), respectively. The mineral concentration indicated [in mg / kg), Cu, 0.088, Mn, 0.173, Fe, 0.275, Mg, 1.96 and Pb, 0.002; therefore justifies the use of the plant in folklore medicine in North Eastern Nigeria for treatment of such diseases, as ear infection, blood replenishing, constipation, urethral discharge, gonorrhoea, stomachache, diarrhoea, against milk drying, sexual-impotence, trypanosomiasis, acute rhinopharyngitis, wound and as fodder for ruminants. It thus attests to the efficacy of the plant on the management of local ailments and its inclusion in the preparation of local drugs for the above diseases

کلمات کلیدی:

Leptadenia hastata (Asclepiadaceae), anti-nutrients, anti-microbial, mineral concentration

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/281483>

