



## Anti-diarrheal activity of *Mangifera indica* L. (Anacardiaceae) leaf extracts, an antimicrobial plant of the Beninese flora

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**Abstract :** The present study aims to evaluate the anti-diarrhoeal activity of extracts of *Mangifera indica* leaves, a plant used in traditional medicine for its antimicrobial properties. Thus, the extracts were tested on 10 reference strains and 9 clinical strains isolated from diarrhoeal stools by agar diffusion method and determination of the antimicrobial capacity. Phytochemical screening was used to determine the major chemical groups present in the extracts by staining and precipitation reactions. Apart from the two reference strains (*P. mirabilis* and *S. oralis*) and the four clinical strains (*K. pneumoniae*, *E. coli*, *P. aeruginosa* and *K. oxytoca*) which developed resistance to the extracts, the extracts generally showed antibacterial activity on both reference and clinical strains and the ethanolic extract seemed to be more effective. The presence of major chemical groups like tannins, flavonoids, anthocyanins, reducing compounds, quinone derivatives found in the extracts of the leaves of the plant could confer the known activity of this plant.

**Keywords :** *Mangifera indica*, reference strains, clinical strains, phytochemical screening.