



## ***ANTIBACTERIAL ACTIVITY OF DISTILLATION OF LEAVES OF ATALANTIA CEYLANICA (YAKINARAN)***

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The steam of boiled leaves and extract of *Atalantia ceylanica* are used by certain villagers as a traditional treatment for healing respiratory ailments such as influenza. Thus the study was aimed to investigate the antibacterial effect of *Atlanta* leaves. Antibacterial activity of leaves of was tested qualitatively against 05 bacterial strains with the modified plate method at Gampaha Wickramarachchi Ayurveda Institute in April 2015. The plates, prepared with the distillation of leaves which comprised of neat concentration of raw leaf materials and Mueller -Hinton agar were inoculated with laboratory stored standard bacterial strains such as *Pseudomonas aeruginosa*, *Streptococcus pneumonia*, *Escherichia coli*, *Staphylococcus aureus* and Methicillin resistant *Staphylococcus aureus* separately. These can cause respiratory as well as gastro intestinal symptoms. For the control test distilled water was used to make plates instead of leaf extract. Even after the duplicated experiment no strain was found to be inhibited by the leaf materials, which indicated that the neat concentration of raw chemical compound of particular leaves have no inhibitory action on tested strains. As the respiratory infection is not only caused by bacteria but also viruses, perhaps phytochemicals might have possessed antiviral as well as antibacterial features other than the tested strains. Occasionally the chemical of particular plant leaves might have possessed certain anti-inflammatory feature to control respiratory symptoms. Finally it was clear that the chemical compounds of the distillation of leave s of *Atalantia ceylanica* has no significant inhibitory effect on the growth of tested strains.

**Keywords:** *Atalantia ceylanica*, traditional usage, distillation, antibacterial effect, anti-inflammatory effect