Evaluation and Determination of Antifungal Potentials of Sap of Borassus Flabellifer

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ABSTRACT:
The present study was conducted to evaluate in vitro Antifungal activity of Sap of Borassus Flabellifer. The Fungal strain like C. Albicans and A. Niger cause wide range of health complications to most people worldwide. Herbal products, phytomedicines, herbal remedies have been showing a remarkable growth due to less toxicity and side effects compared to synthetic medicines. We conducted research to determine Antifungal activity of Sap of Borassus Flabellifer by evaluating in four different volumes (0.25, 0.50, 0.75, 1.0ml) of Sap and zone of inhibition. We found that the sap of Borassus Flabellifer exhibits significant Antifungal activity of 14 to 26 mm zone of inhibition after 36hrs. By this research we found the Sap of Borassus Flabellifer exhibited significant Antifungal activity.

KEY WORDS: Borassus Flabellifer ; Antifungal Activity; Zone of Inhibition.
anthelmintic\textsuperscript{4}, antimicrobial\textsuperscript{5,6}, hostile to tubercular\textsuperscript{7,8}, antipyrial\textsuperscript{9}, antibacterial\textsuperscript{10}, nutritional and antimicrobial\textsuperscript{11,12,13}, and disinfectant\textsuperscript{14,15}.

\textbf{MATERIALS AND METHODS:}

The Sap of Borassus Flabellifer was gathered at a young hour in the morning from tallaguda village close to Ibrahimpatnam, Rangareddy dist. With a specific goal to avert fermentation, calcium carbonate is included. The Sap of Borassus Flabellifer was taken in four unique volumes (0.25, 0.50, 0.75, 1.0ml) separately and assessed by zone of restraint or inhibition of the parasitic strain in supplement agar medium. The Sap of Borassus Flabellifer showed huge antibacterial action. Griseofulvin is utilized as standard medication, against contagious strain, for example, C. Albicans and A. Niger.

\textbf{PROCEDURE:}

\textbf{ANTIFUNGAL ACTIVITY:}

Antifungal activity on C. Albicans and A. Niger was determined by zone of inhibition at specific volumes (0.25, 0.50, 0.75, 1.0ml) of Sap of Borassus Flabellifer. The significant Antifungal activity was determined by using nutrient agar media and cup plate method.

\textbf{RESULTS AND DISCUSSION:}

The Antifungal activity of Sap of Borassus Flabellifer is studied with four unique volumes (0.25, 0.50, 0.75, 1.0ml) against C. Albicans and A. Niger, was observed by glass plate technique with supplement agar media and contrasted standard medication Griseofulvin at the fixation 50µg/ml against contagious strain. Information in Table No.1 obviously demonstrated that Sap of Borassus Flabellifer showed Antifungal action. The zone of restraint of the Sap of Borassus Flabellifer was between 14 to 26 mm at (0.25, 0.50, 0.75, 1.0ml) volume.

\begin{table}[h]
\centering
\begin{tabular}{|c|c|c|}
\hline
\textbf{Name} & \textbf{C. Albicans} & \textbf{A. Niger} \\
\hline
\textit{Sap of Borassus Flabellifer (T)} ml 0.25ml & 15 & 14 \\
0.50ml & 20 & 17 \\
0.75ml & 22 & 20 \\
1.0ml & 26 & 25 \\
\textit{Griseofulvin (S)} µg/ml 50µg & 28 & 30 \\
\hline
\end{tabular}
\caption{Antifungal activity of Sap of Borassus Flabellifer with Standard Drug Griseofulvin}
\end{table}

\textbf{CONCLUSION:}

The recent study on Antifungal activity of Sap of Borassus Flabellifer was determined. The Sap of Borassus Flabellifer is found to have Antifungal activity as compared to standard drug used for the study.

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REFERENCE:


