INTRODUCTION

The plant Artemisia annua as per literature review posses medicinal uses in curing diseases. The plant Artemisia annua is found in Southern Parts of India. Artemisia annua, also known as sweet wormwood, sweet annie, sweet sagewort or annual wormwood, is a common type of wormwood native to temperate Asia.

MATERIALS AND METHODS

EXPERIMENTAL SECTION

The different parts of the plant Artemisia annua was collected was authenticated and preserved. It was then dried under shade and then the crude dried powder made obtained was subjected to extraction process.

Extraction

The shade dried plant was extracted using chloroform and later by Ethyl acetate by continuous hot percolation method. The excess of solvent was removed by evaporation under reduced pressure and then stored in a dessicator. The extract was subjected to preliminary phytochemical studies and antibacterial activity evaluation.

Antibacterial Activity Evaluation

The Antibacterial activity of the plant was conducted in vitro using Agar well diffusion Method Muller Hilton Agar Medium was Prepared and it was inoculated with bacterial cultures Proteus vulgaris S. aureus E.Coli and K. pneumonia Wells are Made in Each Agar Plate and the Plant extracts were tested in the concentration of 100mg/100ml. The test extracts were prepared by dissolving the plant material in dimethyl sulphoxide (DMSO). The standard used is Levofloxacin in the Concentration of 10mg/100ml. Inhibition of Microbial growth was determined by observing the zone of inhibition both in test as well as the standard.

RESULTS AND DISCUSSION

Phytochemical screening of the plant Artemisia annua confirms the presence of Carbohydrates Glycosides Alkaloids Tannins as its principle chemical constituents. The zone of inhibition was clearly observed in the Petri dishes cultured with Proteus vulgaris S.aureus E.Coli and K pneumonia both in test and standard.

ABSTRACT

Artemisia annua is used as having medicinal values in traditional medicine. The Antibacterial activity was carried out using Chloroform and Ethylacetate Extract by Agar Well Diffussion Method. Phytochemical study was carried out to find the presence of Carbohydrates Glycosides Tannins and Alkaloids Zone of Inhibition was observed and it is concluded that the that extracts of the plant Artemisia annua inhibit growth of bacteria.

Keywords: Antimicrobial activity Plant Extracts, Artemisia annua.
Table: Antibacterial activity of Plant Extracts of Artemisia annua

<table>
<thead>
<tr>
<th>Organism</th>
<th>Chloroform Plant Extract</th>
<th>Chloroform Plant Extract</th>
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<tbody>
<tr>
<td></td>
<td>Test</td>
<td>Standard</td>
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<tr>
<td>P. vulgaris</td>
<td>30</td>
<td>32</td>
</tr>
<tr>
<td>S. aureus</td>
<td>30</td>
<td>31</td>
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<tr>
<td>E. coli</td>
<td>35</td>
<td>33</td>
</tr>
<tr>
<td>K. Pneumonia</td>
<td>31</td>
<td>31</td>
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</tbody>
</table>

The Chloroform extract showed comparable antibacterial activity were as ethylacetate extract showed moderate antibacterial activity. The observed zone of inhibition were given in table in the test sample of chloroform plant extract of organism P vulgaris S. aureus E coli K pneumonia respectively. Similarly ethyl acetate plant extract showed a zone of inhibition for organisms P vulgaris S aureus E coli K pneumonia Similarly Ethylacetate plant extract showed zone of inhibition were given in table of organisms P. vulgaris S aureus E coli K pneumonia respectively.

CONCLUSION
It is concluded that the plant Artemisia annua posses Antibacterial activity of both Chloroform and Ethylacetate extracts tested with Standard Levofloxacin against tested selected Organisms. There is need of study of screening of pharmacological activities of the plant extracts further isolation of new phytochemical constituents.

ACKNOWLEDGEMENTS
The authors are Thankful to Post Graduate Research Centre Department of Biotechnology JJ College of Arts and Science Pudukkottai 622 404 Tamil Nadu for providing facilities.

REFERENCES