ANTIBACTERIAL ACTIVITY OF TEA SENNA LEAF EXTRACTS ON STANDARD

LABORATORY BACTERIA STRAINS

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**ABSTRACT** 

Senna tea is a popular herbal remedy that's often marketed as a laxative, weight loss aid, and

detox method. However, there's little scientific evidence to support the efficacy of Senna tea

for most of these uses aside from treating constipation. The aim of the study is to evaluate the

antibacterial activity of Senna tea leaves, stems, bark and roots for their ethno medicinal use

and their activity on selected bacterial and fungal strains. The antibacterial activity of tea Senna

extracts against standardized inoculums of Escherichia coli, staphylococcus aureus and

Candida albicans were evaluated using the disk diffusion method. The results were obtained

by measuring the clear zones that had formed around the bacterial and fungal growth of the

isolates at different concentrations of the tea Senna extract. The results showed that the extract

had antifungal activity against Candida albicans with the inhibition zones measuring 18mm

and antibacterial activity against Escherichia coli with inhibition zones measuring 16mm. The

study provides useful information and insights into antimicrobial activities on plant extract that

can be used in drug development.

Key words: phytochemicals, antimicrobial, herbal medicine