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Erratum

# EVALUATION OF ANTIBACTERIAL, ANTIMICROBIAL, AND HYPOGLYCEMIC EFFECTS OF THE LEAVES OF *EMBELIA RIBES*

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**ABSTRACT**

**Objective:** The purpose of this work is to evaluate the antimicrobial, antibacterial, and hypoglycemic effects of methanolic and ethanolic extracts of *Embelia ribes* leaves using *in vitro* studies.

**Methods:** Antibacterial activities of the methanolic and ethanolic extract of *E. ribes* leaves against *Escherichia coli*, *Staphylococcus aureus*, *Enterococci*, and *Klebsiella pneumoniae* at different concentrations ranging from 10, 25, 50, and 75 µg/mL and their antibacterial activities were compared to those of the reference controls such as ciprofloxacin and clindamycin. Furthermore, the effect of leaf extracts on α-amylase and α-glucosidase enzymes was assayed.

**Results:** The methanolic and ethanolic extract of *E. ribes* leaves effectively inhibited the activity of α-amylase and α-glucosidase in a dose-dependent manner. The effect of the methanolic extract was more prominent than that of ethanolic extract. At the same time, both the extracts showed markable inhibition of bacterial growth at a concentration of 75 µg/mL compared to the other three doses (10, 25, and 50 µg/ml) and also commercially available antibiotic drugs ciprofloxacin and clindamycin that were used as positive control drugs. The antibacterial activity of methanolic extract is significantly higher than that of ethanolic extract.

**Conclusion:** The preliminary results of this study have put forward *E. ribes* into promising herb with respect to its therapeutic potential although further studies are needed to evaluate its mechanism of action.

**Keywords:** α-amylase, α-glucosidase, *Embelia ribes.*

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