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In vitro Antibacterial activity of Pimpinella anisum fruit extracts against some pathogenic bacteria

A.Akhtar, A.A.Deshmukh, A.V.Bhonsle, P.M. Kshirsagar and M.A.Kolekar

Department of Pharmacology and Toxicology,
College of Veterinary and Animal Sciences, Udgir - 413517
Maharashtra Animal and Fishery Sciences University, Nagpur-6, India.

Abstract

The antibacterial activities of the aqueous, 50% (v/v) methanol, acetone and petroleum ether extracts of Pimpinella anisum (L) fruits were studied. The extracts of Pimpinella anisum were tested in vitro against 4 bacterial species by the disc diffusion method. Staphylococcus aureus (MTCC 96), Streptococcus pyogenes (MTCC 442), Escherchia coli (MTCC 723) and Klebsiella Pneumoniae (MTCC 109) were used in this investigation. Only aqueous and 50% (v/v) methanol extract exhibited fair antibacterial activity against all the test bacteria whereas acetone and petroleum ether extract were not observed to inhibit the growth of any of the test bacteria under study.

Keywords: Antibacterial Activity, Pimpinella anisum, Pathogenicity, Bacteria