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Synthesis, Characterization and Study of Antimicrobial Activity of1-Phenylazo-2-Naphthol

Lata C. Potey*,PallaviUrade,JayshreeAate, SatishKosalge

Hi-Tech College of Pharmacy, Padoli Square, Nagpur Highway, Chandrapur 442401, Maharashtra, India

Abstract: In this study, 1-Phenylazo-2-naphthol compound was synthesized in excellent yields viathe diazotization of aromatic amines followed by coupling with 2-naphthol. This compoundwas characterized by various qualitative and quantitative techniques. The synthesized compound has been tested in vitro against a number of microorganisms in order to assess their antimicrobial properties using cup plate method. The minimum inhibitory concentrations (MIC) were also determined by the tube dilution technique. The products exhibited comparable activity with known standard drugs at same concentration.
Keywords: Azo dyes;Antimicrobial activity; Minimum Inhibitory Concentration.

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