

CYTOTOXIC AND ANTIMICROBIAL ACTIVITIES OF ALKALOIDS
FROM *DEHAASIA KURZII* KING STEM BARK

PARVIN RAHMAN, ILIAS MUHAMMAD, CHOUDHURY
M. HASAN AND ABDUL JABBAR

Department of Pharmacy, Dhaka University, Dhaka-1000, Bangladesh.

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Abstract

The alkaloidal mixture, obtained from *Dehaasia kurzii* (Fam: Lauraceae), exhibited strong *in vitro* antibacterial activity against *Shigella flexneri* and moderate activity against *Vibrio cholerae*, *Staphylococcus aureus*, *Proteus*, *Pseudomonas* spp and *Shigella dysenteriae* type-1. *Sh. flexneri* was most susceptible to the antibacterial activity of the alkaloidal mixture. Boldine, an aporphine alkaloid, isolated from the alkaloidal mixture showed strong and specific cytotoxic activity towards human epidermoid carcinoma of larynx (HEp-2 cells). It showed complete inhibition of cultured HEp-2 cells at a concentration of 0.3 mg/ml and partial inhibition at 0.7 mg/ml.