# Simultaneous determination of hyoscine N-butyl bromide and paracetamol in their binary mixture by RP-HPLC method

*Mohamed Mohamed ,Nouruddin W.Ali, Mohammed Gamal*

**Abstract**

RP-HPLC chromatographic method was developed for the determination of hyoscine N-butyl bromide (HBB) and Paracetamol (PAR). In this chromatographic method, HBB and PAR were separated using C18 (25 cm Ǐ 4.6 mm i.d. 5 εm particle size) column as a stationary phase and water: methanol (50:50, V/V pH adjusted to 3.9 with CF3COOH acid) as a mobile phase, maintaining the flow rate at 1.0 mL minī1 with UV detection at 210 nm. The proposed method was successfully applied for the determination of HBB and PAR in pure form over a concentration range of 2.0ï50.0 εg mLī1 for HBB with mean percentage recovery of 100.10 Ñ 0.475 and over a concentration range of 5.0ï200.0 εg mLī1 for PAR with mean percentage recovery of 99.87 Ñ 0.942 and in their pharmaceutical formulations (Buscopan plusÈ tablets, BuscamolÈ tablets and Buscopan plusÈ suppositories).

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