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HPLC Method for the Analysis of Paracetamol, Caffeine and Dipyrone

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**Abstract:** An accurate, simple, reproducible and sensitive method for the determination of paracetamol, caffeine and dipyrone was developed and validated. Paracetamol, caffeine and dipyrone were separated using a  $\mu$ -Bondapak C<sub>8</sub> column by isocratic elution with a flow rate of 1.0 ml/min. The mobile phase composition was 0.01 M KH<sub>2</sub>PO<sub>4</sub>-methanol-acetonitrile-isopropyl alcohol (420: 20: 30: 30) (v/v/v/v) and spectrophotometric detection was carried out at 215 nm. The linear range of determination for paracetamol, caffeine and dipyrone were 0.409-400  $\mu$  g/ml, 0.151-200  $\mu$  g/ml and 0.233-600  $\mu$  g/ml, respectively. The method was shown to be linear, reproducible, specific, sensitive and rugged.

**Key Words:** Paracetamol, Acetaminophen, Caffeine, Dipyrone, High performance liquid chromatography, Validation.

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