

SIMULTANEOUS DETERMINATION OF THIAMINE, RIBOFLAVIN,
PYRIDOXINE, NIACINAMIDE AND SODIUM BENZOATE IN AN ORAL
VITAMIN B LIQUID USING HIGH PERFORMANCE
LIQUID CHROMATOGRAPHY

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Abstract

A simple, high performance liquid chromatographic (HPLC) method was established to estimate niacinamide, pyridoxine hydrochloride, thiamine hydrochloride, riboflavin and sodium benzoate simultaneously in oral vitamin B preparations. A reverse phase, C₁₈ column (neucleosil, 5 μ , 4 x 150 mm) with the mobile phase containing acetonitrile, phosphate buffer at pH 2.1 and octanesulphonate (sodium salt) was used for separation. All analytes were detected at 280 nm at ambient conditions. The analysis time is approximately 18 minutes.