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Analysis of Antipyretics by Semimicro Liquid Chromatography*

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High-performance liquid chromatography (HPLC) on micro or semimicro columns has aroused interest, since it may offer much savings in time of analyses and in amounts of samples and solvents. In addition, HPLC with semimicro columns requires no or minor change in the conventional chromatographic system.

The application of semimicro columns (150×1 mm I. D.) to the analysis of antipyretics and their pharmaceutical preparations were studied. The packing materials used were octadecyl silica gel and styrene-divinylbenzene porous polymer.

The antipyretics studied were sulpyrin, caffeine, guaiacol glycerol ether, acetaminophen, 3-hydroxy-*p*-butyrophenetidine, methyl *p*-hydroxybenzoate, phenacetin, mefenamic acid, aspirin, salicylamide, salicylic acid, *o*-ethoxybenzamide, theobromine, theophylline and their preparations. The semimicro columns were proved to be effective in the analysis of the drugs and to be economical in solvents in chromatographic analysis.

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