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MICRO-COLUMN LIQUID CHROMATOGRAPHY WITH MULTI-WAVE-LENGTH PHOTOMETRIC DETECTION

I. THE OB-4 MICRO-COLUMN LIQUID CHROMATOGRAPH

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SUMMARY

The OB-4 micro-column liquid chromatograph is designed for high-performance liquid chromatography (HPLC) on 50-200 μl columns with typical eluent volumes of 500-2500 μl . The detector is a double-beam microspectrophotometer with two flat-window flow cells. The monochromator of the detector contains a special drive for rapid change of wavelength according to stepwise cyclic programmes over the range 190-360 nm. In this way multi-wavelength detection on a time-share basis is performed. The OB-4 chromatograph may be used for all types of HPLC. It consumes much smaller amounts of eluents, adsorbents and samples than other instruments. The multi-wavelength facility helps in identification and evaluation of homogeneity. Examples of applications are given.