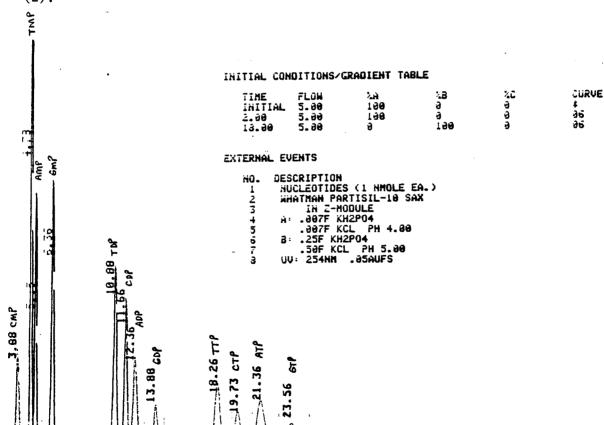
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NUCLEIC ACIDS 82.600.066.011.030 (.038)

ANALYSIS OF NUCLEOTIDES USING Z-MODULE

The Z-Module is a Radial Compression Module designed to be used with both Waters existing Radial-PAK cartridges and with Waters line of irregular shaped particles. Radial-PAK cartridges custom packed with Whatman Partisil-10 SAX packing is a standard cartridge available from Waters.

An important application of the SAX packing is in the area of nucleotide analyses. Nucleotides are the monomeric units of nucleic acid molecules and participate in nearly all biochemical processes. Nucleotide profiles utilizing Whatman steel columns have been reported in the literature (1). Typical analysis times are 50 minutes per sample or longer. By taking advantage of the high flow rate and low back pressures on the Z-Module and SAX cartridge, analysis times per sample can be cut in half. The following chromatogram illustrates the profile obtained for the 12 nucleotides of interest to biological researchers involved in nucleic acid chemistry. High flow rate gradients are a definite advantage of RCSS (2).



Robert Burgoyne 1/28/82

(1) M. McDiag & P. R. Brown, <u>J. Chromatogr</u>. 152 (1978) 253-254

(2) J. Korpi & B. Bidlingmeyer, American Laboratory, June 1981, 110-117