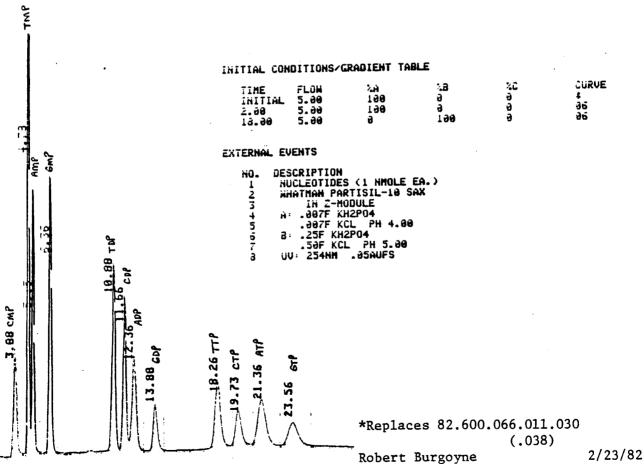
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Volume 2, No. 2 NUCLEIC ACIDS *82.600.066.011.031

ANALYSIS OF NUCLEOTIDES USING Z-MODULETM SYSTEM

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

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-ModuleTM System and SAX cartridge, analysis times per sample can be cut in half. The following chromatogram illustrates the profile obtained for 12 nucleotides of interest to biological researchers involved in nucleic acid chemistry. High flow rate gradients are a definite advantage of RCSS (2).



(1) M. McKeag & P. R. Brown, J. Chromatogr. 152 (1978) 253-254

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

