

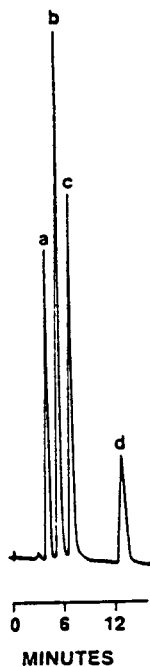
COMPARISON OF A STEEL ANION-EXCHANGE COLUMN AND RADIAL-PAK™ SAX CARTRIDGE

The profile generated for monophosphate nucleotides on a competitive anion exchange column is presented for comparison. The use of Radial-PAK cartridges in the Z-Module™ Separation System yields equivalent profiles to steel columns with significantly reduced analysis times.

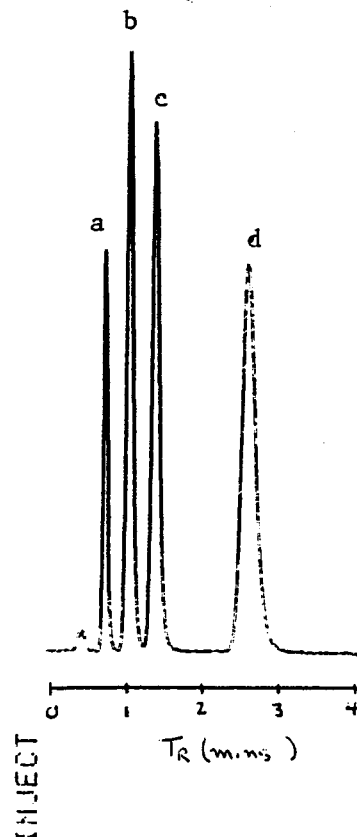
NUCLEOTIDES 5' MONOPHOSPHATES

Peaks—

- a. CMP (cytidine-5' monophosphate)
- b. AMP (adenosine-5' monophosphate)
- c. UMP (uridine-5' monophosphate)
- d. GMP (guanosine-5' monophosphate)



Column: PXS-1025 SAX; 4.6 mm X 25 cm
Column Temperature: At ambient
Mobile Phase: .03M KH_2PO_4 , pH 3.35
Flow Rate: 1.13 ml/min
Pressure 500 psi
Detection: UV @ 254 nm (LDC)



Column: Radial-PAK SAX (8 mm X 10 cm)
Mobile Phase: 0.03M KH_2PO_4 , pH 3.35
Flow Rate: 9 ml/min
Detection: M440, 254 nm

Robert Burgoyne

4/1/82