

**Results**

*Purification of active yellow components.* The chromatography of the supernatant (pH 1.5) of Antineoplaston formulations on Dowex 1 revealed that some yellow components, which were not adsorbed by the resin, possessed good anticancer activity (1). These yellow components were found in A2 and A5, but were absent in A3. The amounts of yellow components, however, varied considerably from batch to batch. For reasons of consistency, purification of the active yellow components was conducted on freshly collected urine. Like other active anticancer components present in urine, active yellow components were

retained by C18 from aqueous solution and eluted from C18 with methanol solution. Active yellow components were found predominantly in the 40% methanol eluant following 15% methanol elution as described in "Materials and methods." Dried materials (8.6 g) could be obtained in this fraction from 10l urine which had a creatinine concentration of 1.03 mg/ml. Subsequent purification by gel filtration on Bio-Gel P-2 was as described in "Materials and methods". Results are shown in Fig. 1.

The majority of material (amounting to 97%) was eluted between the elution volume of 210 and 540 ml. Active yellow components were eluted between 840 and 1100 ml as two absorption

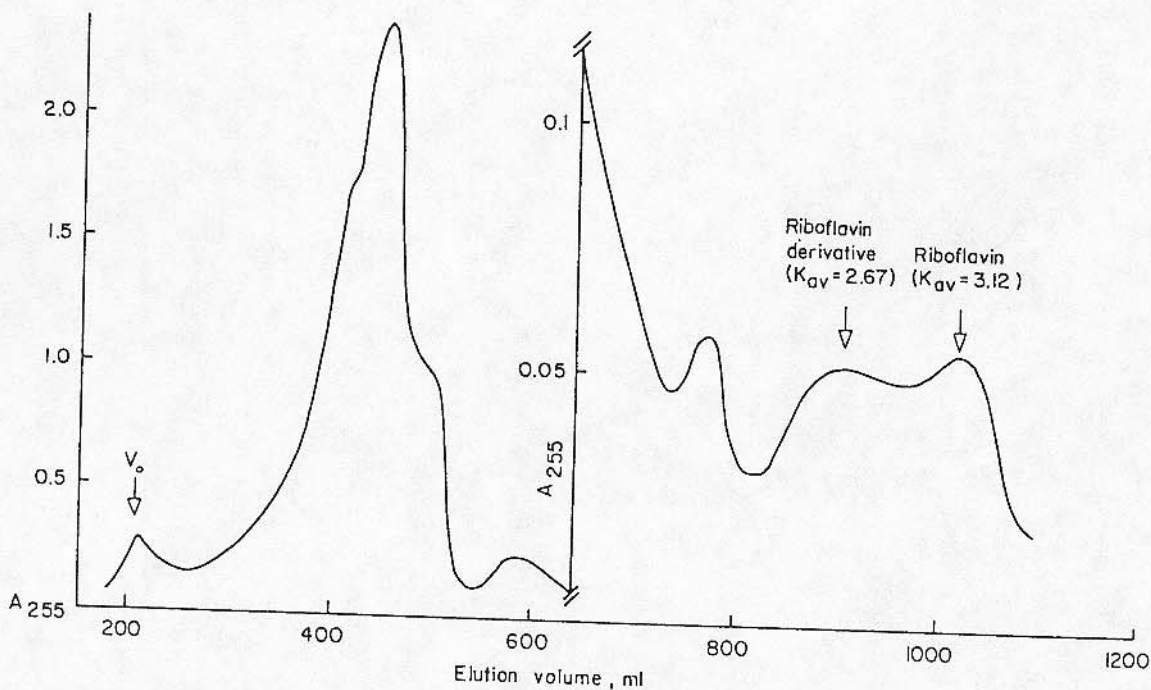


Fig. 1 Purification of active yellow components by gel filtration on Bio-Gel P-2. The C18 fraction (1.2-1.3g) prepared as described in "Materials and methods" was dissolved in 5 ml of water which were applied to a column of Bio-Gel P-2 (2.5 x 96 cm). The elution was carried out with deionized water collecting 15 ml/tube/20 min. A 50 μl aliquot from each tube was diluted with water to 1 ml for the manual determination of absorption at 255 mμ.