



NOTE NO. 36 - October 8 1990

ANALYSIS OF URIC ACID IN URINE

Analytes: Uric acid (370 µg/ml)

Sample Matrix: Human urine diluted

Sample Size: 20 microliters with water (1:100)

Guard column: 5 micron GFF ISRP, 1 cm x 3.0 mm ID

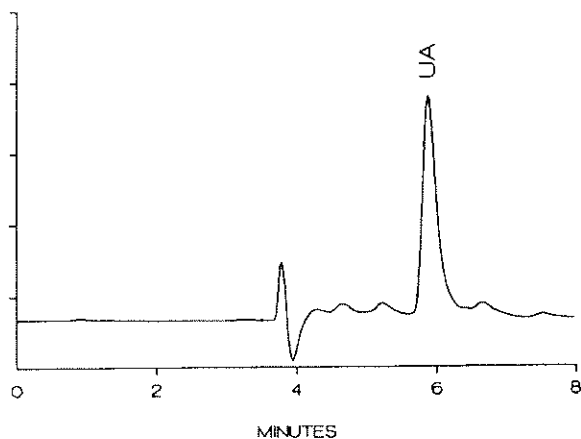
Regis Product Number: 731440

Analytical column: 5 micron GFF ISRP, 25 cm x 4.6 mm ID

Regis Product Number: 731452

Mobile Phase: 20 ml conc. H_3PO_4 /1000 ml water (pH 4.0),
(pH adjusted with 10 N Sodium Hydroxide)

Discussion: The coefficient of variation was 0.9% for a urine sample injected ten times. Selectivity of the assay was determined by injecting a synthetic urine sample containing creatinine, NH_4Cl , KH_2PO_4 , glycine, histidine HCl, and uric acid. None of these components interfered with the assay. In addition, ascorbic acid causes no interference. In conclusion, this assay is accurate and precise in the analysis of uric acid in urine.



Detection: 292 nm, 0.1 AUFS

Flow Rate: 0.7 ml/min

Stephanie Ramer, Miles Inc., Diagnostics Division,
P.O. BOX 70, Elkhart, IN 46515