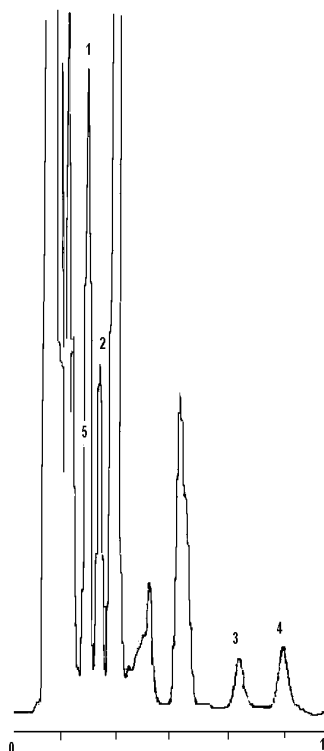


### Determination of Anticonvulsants by Isocratic Separation and UV Detection

1. Primidone (12 ppm)
2. Phenobarbitone (7 ppm)
3. Phenytoin (2.3 ppm)
4. Carbamazepine (1.5 ppm)



**Figure 1** Sample: Reconstituted human serum containing 45 therapeutic drugs\*

\*Acetaminophen, Amikacin, Caffeine, Carbamazepine, Carbamazepine (free), Chloramphenicol, Cortisol, Digoxin, Disopyramide, Estriol (total), Thosuximide, Gentamicin, Kanamycin, Lidocaine, Lithium, Methotrexate, NAPA, Netilmicin, Phenobarbital, Phenytoin,

Phenytoin (free), Primidone, Procainamide, Propranolol, Quinidine, Salicylate, Streptomycin, T3 (total), T3 Uptake, T4 (total), T4 (free), Theophylline, Tobramycin, TSH, Valproic Acid, Valproic Acid (free), Vancomycin.

#### Conditions

Column: Spherisorb OD S2 (C18)  
 Column 5  $\mu$ M (250 x 4.6 mm ID)  
 Mobile Phase: 10 mM Dipotassium Phosphate, 10 mM Tetramethyl Ammonium Chloride (pH 7.3) (70%) and Acetonitrile (30%)  
 Flow Rate: 1.0 ml/min  
 Temperature: 30°C  
 Detector: 205 nm



## GBC HPLC Instrumentation

LC1110 Dual Piston HPLC Pump (x2)

LC1200 Variable Wavelength UV/Vis

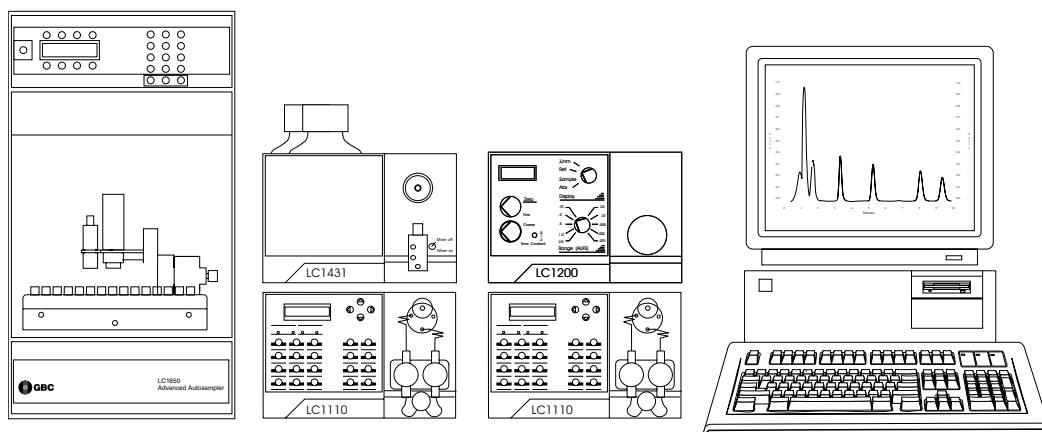
Detector

GBC Column Oven

LC1650 Advanced Autosampler

WinChrom Chromatography Data

Management System



P2  
01-0373-00

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