

Cancer medication in Plasma - separation of Epirubicin, Epirubicinol, 3-Epirubicin aglycon, Epirubicinol aglycon, 7-Deoxyepirubicinol aglycon - using a LiChrospher RP select B column

Chromatography

Substance class : Antibiotics

Matrix : Plasma

Chromatographic conditions

Column : LiChroCART® 250-4 LiChrospher® RP-select B, 5 µm (Cat. No. 1.50839)

Precolumn : LiChroCART® 25-4 LiChrospher® RP-4 ADS, 5 µm (Cat. No. 1.50206)

Mobile Phase : Clean-up: 95% water (LiChrosolv® Cat. No.1.15333), 5% methanol (LiChrosolv® Cat. No.1.06007) for 10 min at 1.0 mL/min Transfer and Separation: 30% acetonitrile, 70% water (0.1% TEA, TCA pH 2.0) for 15 min at 1.0 mL/min

Flow rate : 1.0 mL/min

Detection : Fluorescence Ex 445 nm, Em 560 nm

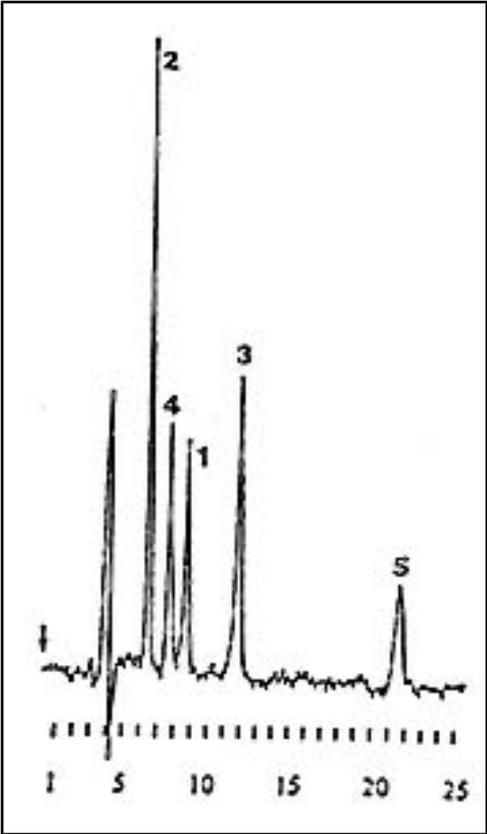
Inject. volume : 50 µL

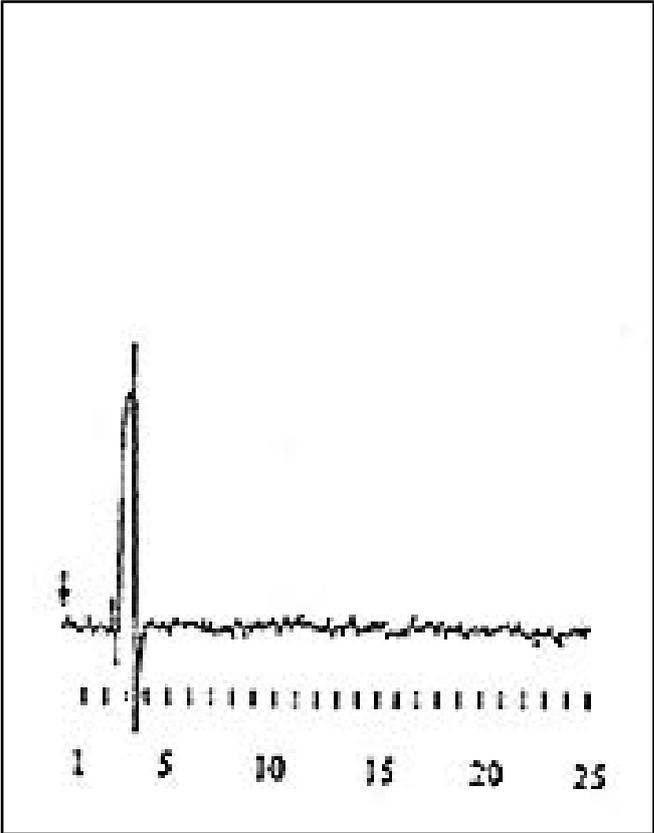
Sample : 1. Epirubicin; 2. Epirubicinol; 3, Epirubicin-aglycon; 4. Epirubicinol-aglycon; 5. 7-Deoxy-epirubicinol-aglycon; Chrom1 Standard; Chrom 2 plasma; Chrom 3 plasma 15 min after liver tumor chemoembolization 1,2 = 40.6, 3.8 ng/mL; 3,4,5, = 5.3, 2.8, 7.1 ng/mL

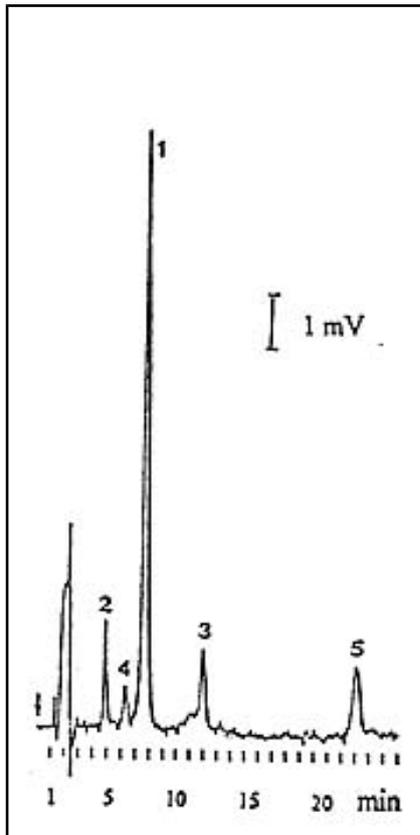
Sample preparation

Integrated sample preparation with LiChrospher® RP-4 ADS (Cat. No. 1.50206); conditions for column switching see mobile phase

Figure







Source

ADS Application NoteBoos

Ordering Information

Product	Catalog No.
LiChroCART® 250-4 LiChrospher® 60 RP-select B (5 µm) HPLC cartridge	150839
Methanol gradient grade for liquid chromatography LiChrosolv® Reag. Ph Eur	106007
Water for chromatography LiChrosolv®	115333
LiChroCART® 25-4 LiChrospher® RP-4 ADS HPLC cartridge set, contains 1 LiChroCART® 25-4 LiChrospher® RP-4 ADS 1 manu-CART®	150206