

Cancer medication in Urine - separation of 4'-Epirubicin hydrochloride - using a LiChrospher RP select B column

Chromatography

Substance class : Antibiotics

Matrix : Urine

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: 30% acetonitrile, 70% water (0.1% TEA, pH 2.0 adjusted with trichloroacetic acid) for 5 min at 1.0 mL/min Separation: 30% acetonitrile, 70% water (0.1% TEA, pH 2.0 adjusted with trichloroacetic acid) for 10 min at 1.0 mL/min

Flow rate : 1.0 mL/min

Detection : Fluorescence Ex 445 nm, Em 560 nm

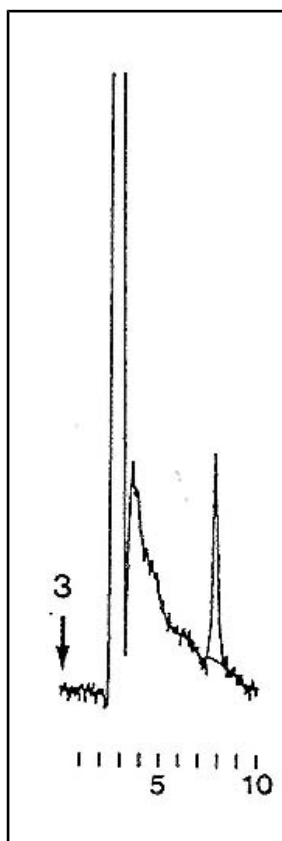
Inject. volume : 50 µL

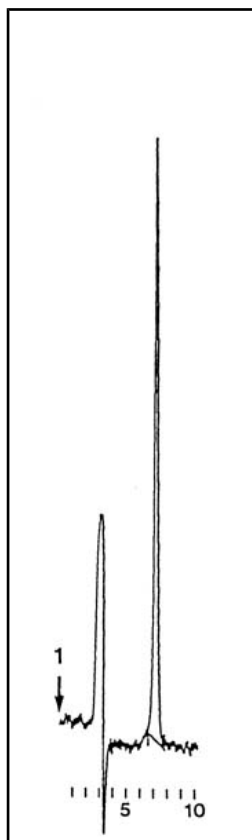
Sample : 1. 4'-Epirubicin-HCl standard; 2. urine; 3. urine spiked with 4'-Epirubicin-HCl (3.1 ng/mL)

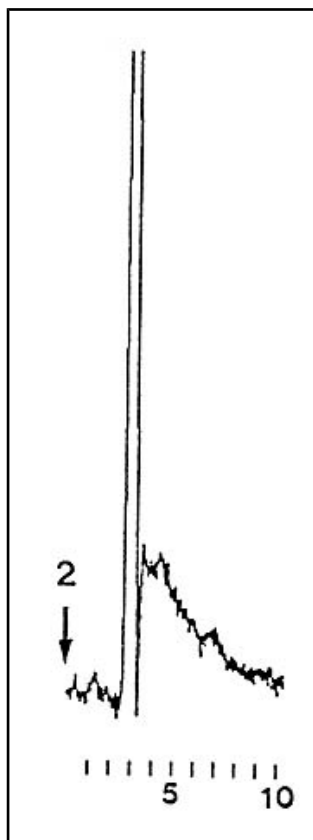
Sample preparation

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