

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

### Chromatography

**Substance class :** Antibiotics

**Matrix :** Plasma

### Chromatographic conditions

**Column :** LiChroCART® 125-4 LiChrospher® RPselect B (5 µm) (Cat. No. 1.50829)

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

**Mobile Phase :** 30% Acetonitrile (LiChrosolv® Cat. No. 1.00030); 70% Water (LiChrosolv® Cat. No. 1.15333) (0.1% TEA, TCA pH 2.0)

**Flow rate :** 1.0 mL/min

**Detection :** Fluorescence Ex 445 nm; Em 560 nm

**Temperature :** ambient

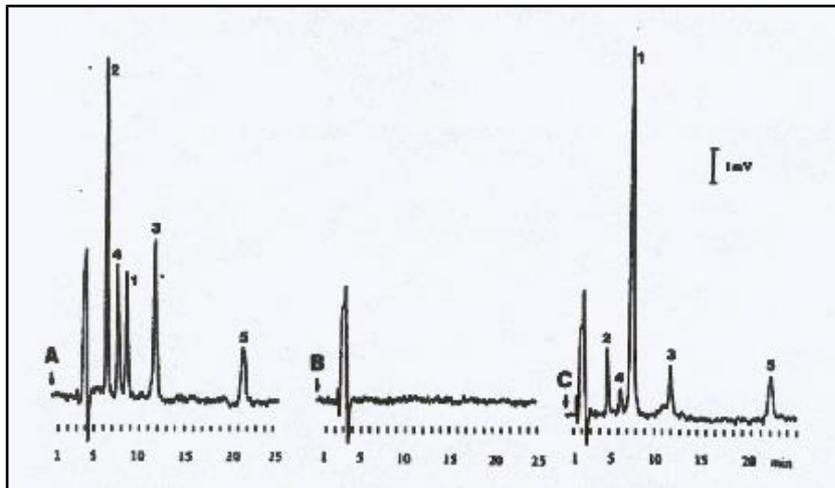
**Inject. volume :** 50 µL

**Sample :** 1. Epirubicin; 2. Epirubicinol; 3. Epirubicin-aglycon; 4. Epirubicinol-aglycon; 5. 7-Deoxy-epirubicinol-aglycon; (1) Standard; (2); plasma (blank); (3) on-line analysis of 8-methoxypsoralen (213 ng/mL) in plasma

### Sample preparation

LC integrated sample preparation with LiChroCART® 25-4 LiChrospher® RP-4 ADS: Loading (loading sample on Precolumn LiChrospher® RP-4 ADS): 95% Water, 5% Methanol 10 min at 1 mL/min Transfer (Column switching): 30% Acetonitrile; 70% Water (0.1% TEA, TCA pH 2.0) 1 mL/min

Figure



Source

ADS Application Note

Ordering Information

Product	Catalog No.
LiChroCART® 125-4 LiChrospher® 60 RP-select (5 µm) HPLC cartridge	150829
Water for chromatography LiChrosolv®	115333
Acetonitrile gradient grade for liquid chromatography LiChrosolv® Reag. Ph Eur	100030
LiChroCART® 25-4 LiChrospher® RP-4 ADS HPLC cartridge set, contains 1 LiChroCART® 25-4 LiChrospher® RP-4 ADS 1 manu-CART®	150206