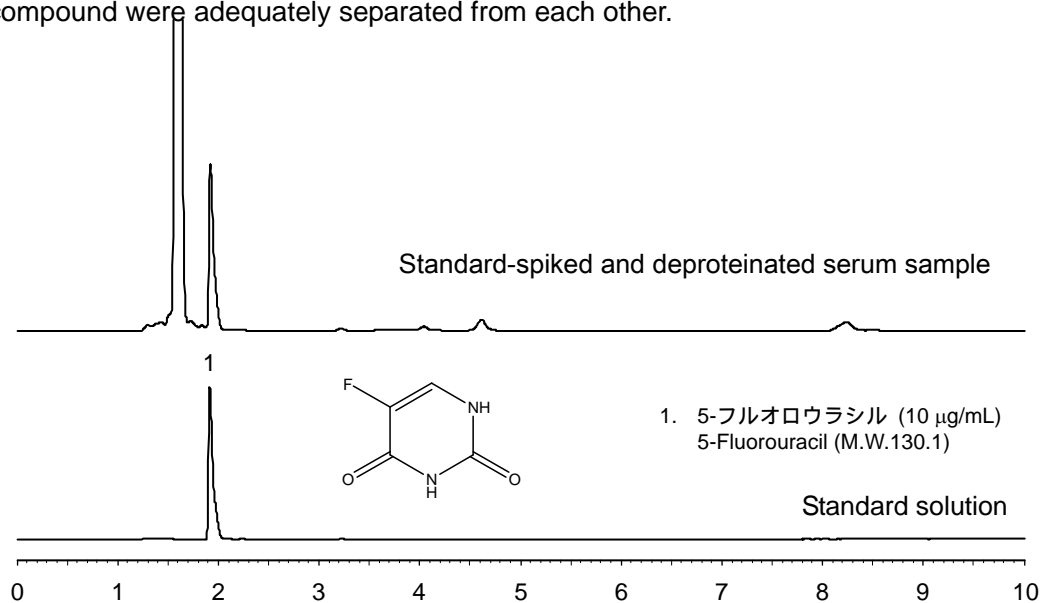


5-フルオロウラシル

5-Fluorouracil

フッ化ピリミジン系の抗がん剤,5-フルオロウラシルは逆相系カラムでの保持分離は困難ですが,親水性相互作用クロマトグラフィーのカラム,CAPCELL CORE PC S2.7 (4.6 mm i.d. x 150 mm)にて分析することができます.標準溶液と血清に標準溶液を添加した試料の分析例を示します.標準添加した血清試料では血清中の脂溶性成分との本物質が良好に分離しているのがわかります.

5-Fluorouracil, or a fluorinated pyrimidine-type anticancer drug, is difficult to retain and analyze with a reversed phase. CAPCELL CORE PC S2.7 (4.6 mm i.d. x 150 mm), or a column for hydrophilic interaction chromatography, could retain the compound successfully. The chromatograms shown below are those obtained with a standard solution, and a serum sample spiked with the standard solution. Lipophilic components in serum and the compound were adequately separated from each other.



【HPLC Conditions】

Column : CAPCELL CORE PC S2.7 ; 4.6 mm i.d. x 150 mm
 Mobile phase : H₂O / CH₃CN = 10 / 90
 Flow rate : 1 mL/min
 Temperature : 40 °C
 Detection : PDA 245 nm
 Inj. vol. : 5 µL
 Sample dissolved in : Standard solution: First dissolved in water at 1 mg/mL, and then diluted to 10 µg/mL with 80 vol% CH₃CN.
 Serum sample: Serum was spiked with 2 vol% of 1000-µg/mL standard solution, and deproteinated with equivolume CH₃CN (resultant concentration: 10 µg/mL).

1 µg/mL = 1 ppm