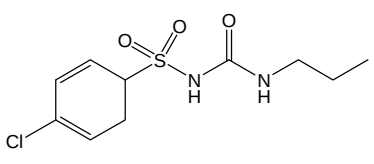
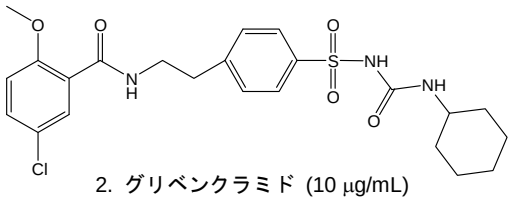
血糖降下薬　Hypoglycemic agents

スルホニルウレア系血糖降下薬であるクロルプロパミド，グリベンクラミド，並びにグリメピリドについて, ギ酸を用いた酸性の移動相で, CAPCELL PAK C_{18} MGIII-H S3（2.0 mm i.d. x 50 mm）による一斉分析例を示します．流速を通常の 2.5 倍にすることで，3 分以内で測定することが可能です.

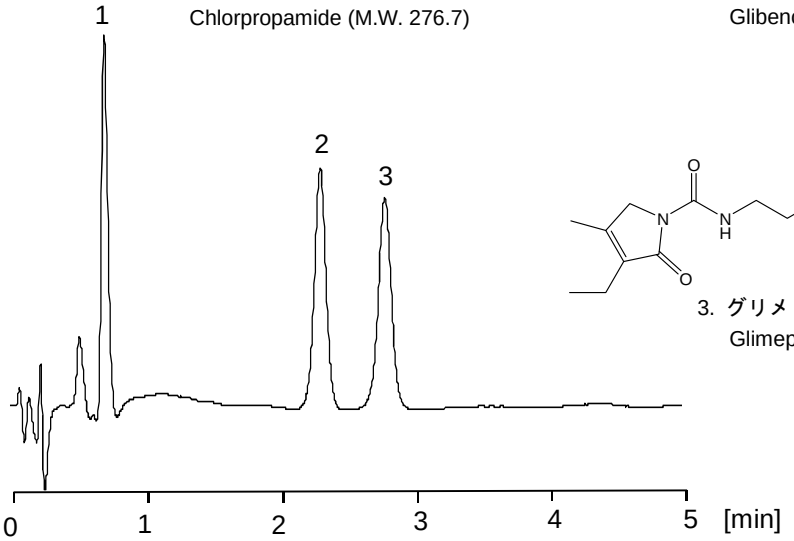
Chlorpropamide, glibenclamide, and glimepiride are hypoglycermic agents. They could be separated within three minutes, at a linera velocity 2.5 times the conventional one, with CAPCELL PAK C_{18} MGIII-H S3 (2.0 mm i.d. x 50 mm).

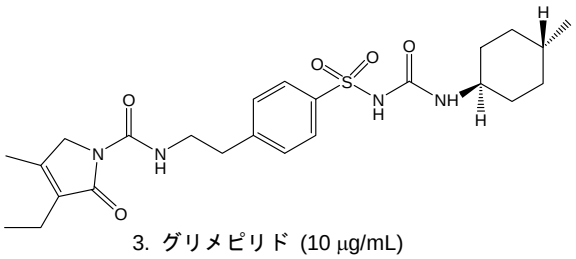


1. クロルプロパミド (10 μg/mL)
Chlorpropamide (M.W. 276.7)



2. グリベンクラミド (10 μg/mL)
Glibenclamide (M.W. 494.0)





3. グリメピリド (10 μg/mL)
Glimepiride (M.W. 409.6)

【HPLC Conditions】

Column	: CAPCELL PAK C_{18} MGIII-H S3 ; 2.0 mm i.d. x 50 mm
Mobile phase	: 0.1 vol% HCOOH, H_2O / CH_3CN = 55 / 45
Flow rate	: 500 μL/min
Temperature	: 40 ˚C
Detection	: PDA 230 nm
Inj. vol.	: 2 μL
Sample dissolved in	: Chlorpropamide and glibenclamide standard compounds were dissolved in CH_3CN at 1000 μg/mL. Glimepiride standard compound was dissolved in 80 vol% CH_3CN at 1000 μg/mL. Equal volume of three solutions were mixed together, and then, diluted with mobile phase.

※ 1 μg/mL = 1 ppm