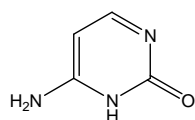


核酸塩基

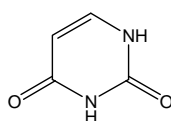
Nucleic acid bases

DNA、RNA の構成要素である核酸塩基 5 種について、アダマンチル基を導入した表面極性の高い CAPCELL PAK ADME S5 (4.6 mm i.d. x 150 mm) を用いて測定した例を示します。シトシンやウラシルのような極性の高い化合物も保持され、良好な分離が得られています。

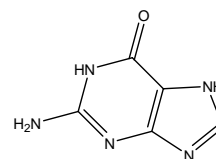
Five nucleic acid bases which are the components of DNA and RNA, were separated with CAPCELL PAK ADME S5 (4.6 mm i.d. x 150 mm). Because the extra high surface polarity of ADME that is derived from the introduction of adamantyl function group, the high polar compounds of cytosine and uracil were certainly retained with good resolution.



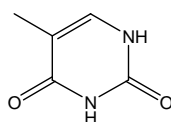
1. シトシン (5 µg/mL)
Cytosine (M.W. 111.1)



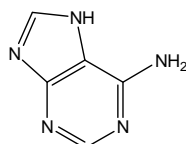
2. ウラシル (5 µg/mL)
Uracil (M.W. 112.1)



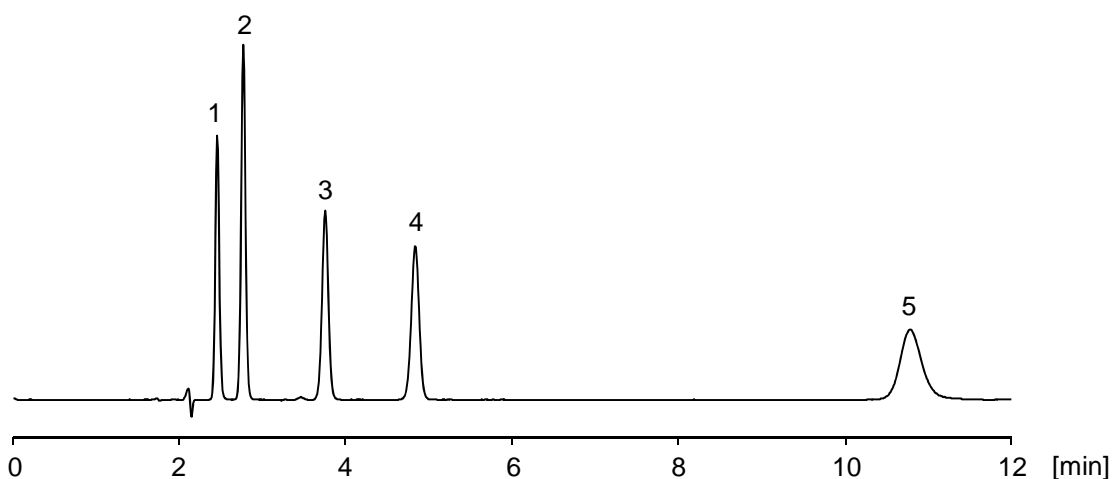
3. グアニン (5 µg/mL)
Guanine (M.W. 151.1)



4. チミン (5 µg/mL)
Thymine (M.W. 126.1)



5. アデニン (5 µg/mL)
Adenine (M.W. 135.1)



【HPLC Conditions】

Column	: CAPCELL PAK ADME S5 ; 4.6 mm i.d. x 150 mm
Mobile phase	: 10 mmol/L HCOONH ₄ / CH ₃ OH = 90 / 10
Flow rate	: 1 mL/min
Temperature	: 40 °C
Detection	: UV 254 nm
Inj. vol.	: 5 µL
Sample dissolved in	: Mobile phase
	※ 1 µg/mL = 1 ppm