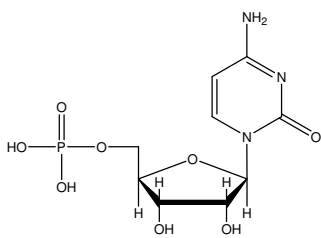


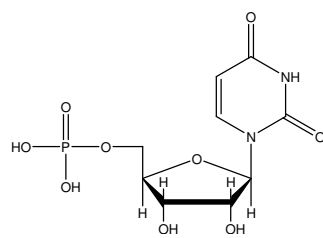
核酸関連化合物

Nucleic acids related compounds

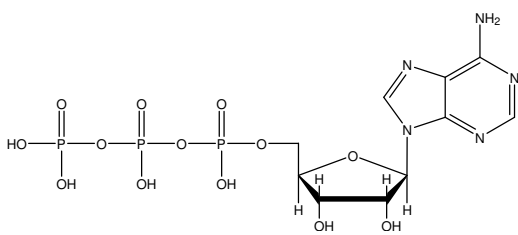
ヌクレオチド 7 種にヒポキサンチン及びイノシンを合わせた核酸関連化合物 9 種を水系 100% の溶離液でも安定して使用可能な CAPCELL PAK ADME-HR S5 (4.6 mm i.d. x 250 mm) を用いて一斉分析した例を示します。適度な疎水性と高い表面極性をもつ ADME カラムは非常に親水性の高い ATP を含めたヌクレオチド 7 種を十分に保持することが可能です。



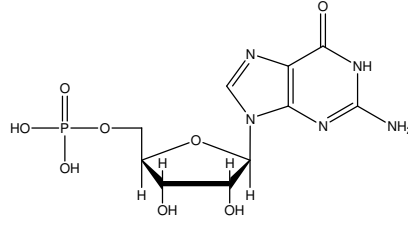
1. CMP (100 µg/mL)
Cytidine Monophosphate (M.W. 323.2)



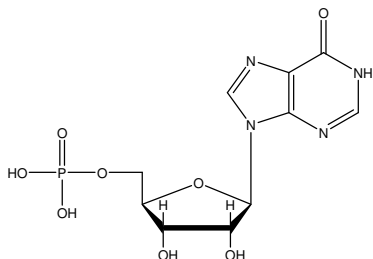
2. UMP (100 µg/mL)
Uridine Monophosphate (M.W. 324.2)



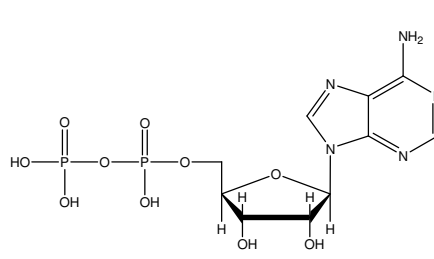
3. ATP (100 µg/mL)
Adenosine Triphosphate (M.W. 507.2)



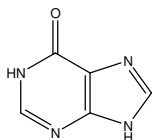
4. GMP (100 µg/mL)
Guanosine Monophosphate (M.W. 363.2)



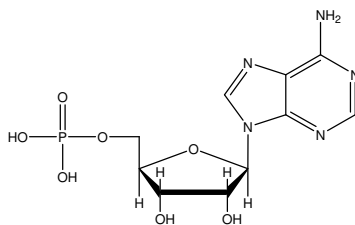
5. IMP (100 µg/mL)
Inosine Monophosphate (M.W. 348.2)



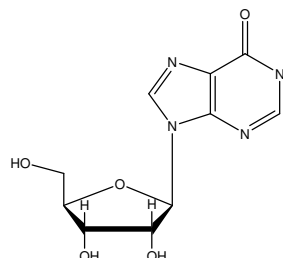
6. ADP (100 µg/mL)
Adenosine Diphosphate (M.W. 427.2)



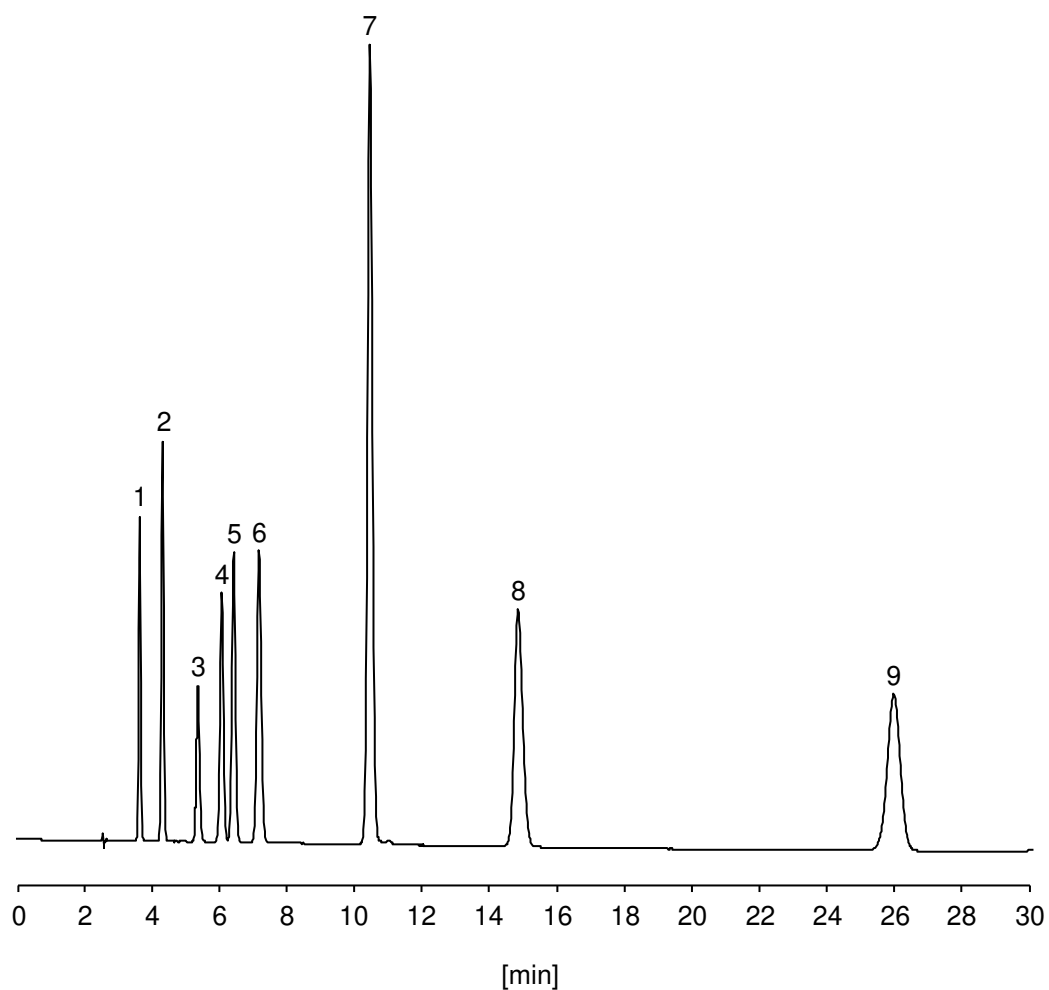
7. ヒポキサンチン (100 µg/mL)
Hypoxanthine (M.W. 136.1)



8. AMP (100 µg/mL)
Adenosine Monophosphate (M.W. 347.2)



9. イノシン (100 µg/mL)
Inosine (M.W. 268.2)



【HPLC Conditions】

Column : CAPCELL PAK ADME-HR S5 ; 4.6 mm i.d. x 250 mm
Mobile phase : 100 mmol/L NaH₂PO₄
Flow rate : 1 mL/min
Temperature : 35 °C
Detection : UV 254 nm
Inj. vol. : 5 µL
Sample dissolved in : H₂O
※ 1 µg/mL = 1 ppm