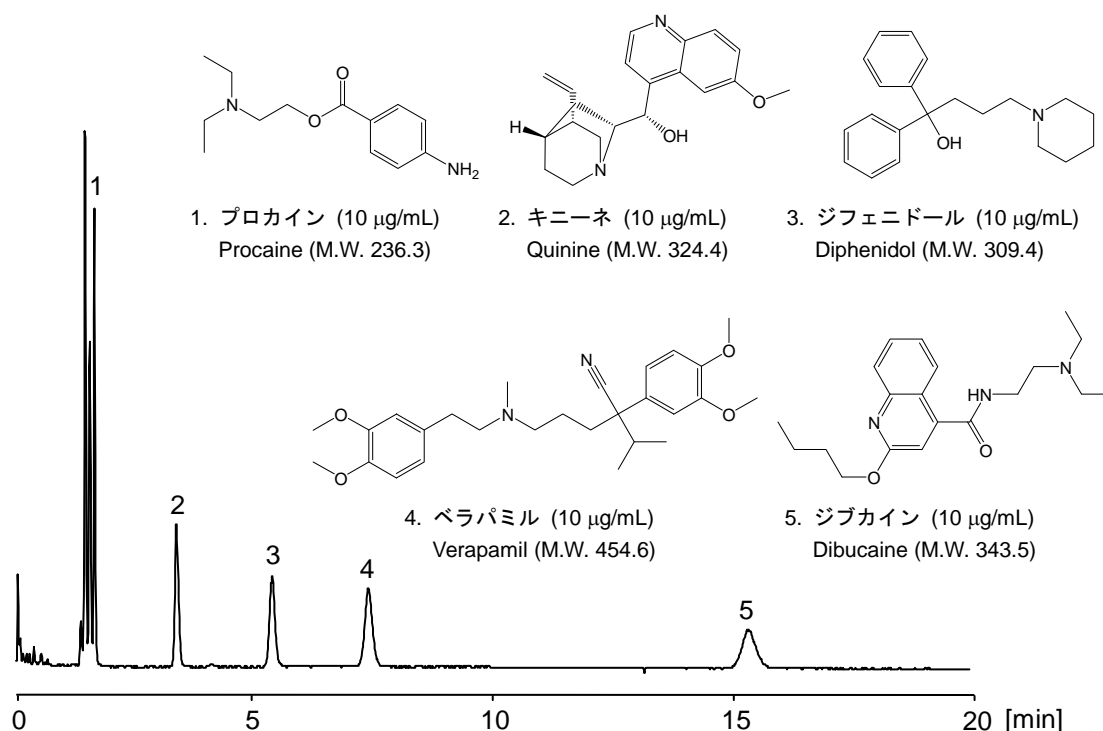


塩基性化合物

Basic compounds

代表的な塩基性化合物5種類をNQADにて測定した分析例を紹介します。NQADは、不揮発性から半揮発性の化合物を測定する検出器です。検出特性を考慮して、カラムにはブリードの少ないCAPCELL PAK C₁₈ MGIII S5 (4.6 mm i.d. x 150 mm) を用いました。

The simultaneous determination of 5 typical basic compounds was performed with NQAD detector. NQAD is developed as a Universal HPLC detector to provide exhaustive determination of semi-volatile and nonvolatile compounds, therefore sensitive to the background derived from the analysis system. In response to better detection performance, CAPCELL PAK C₁₈ MGIII S5 (4.6 mm i.d. x 150 mm) with minimized bleeding was applied.



【HPLC Conditions】

Column	: CAPCELL PAK C ₁₈ MGIII S5 ; 4.6 mm i.d. x 150 mm
Mobile phase	: 20 mmol/L HCOONH ₄ (pH 3, HCOOH) / CH ₃ OH = 50 / 50
Flow rate	: 1 mL/min
Temperature	: 40 °C
Detector	: NQAD (Evaporation 35 °C, Nebulizer 30 °C, Filter 5 sec)
Inj. vol.	: 10 µL
Sample dissolved in	: Each standard compound was separately dissolved in CH ₃ OH at 1 mg/mL. Equal amount of all the solutions were mixed together, and further diluted to 10 µg/mL with 20 % CH ₃ OH.
	※ 1 µg/mL = 1 ppm