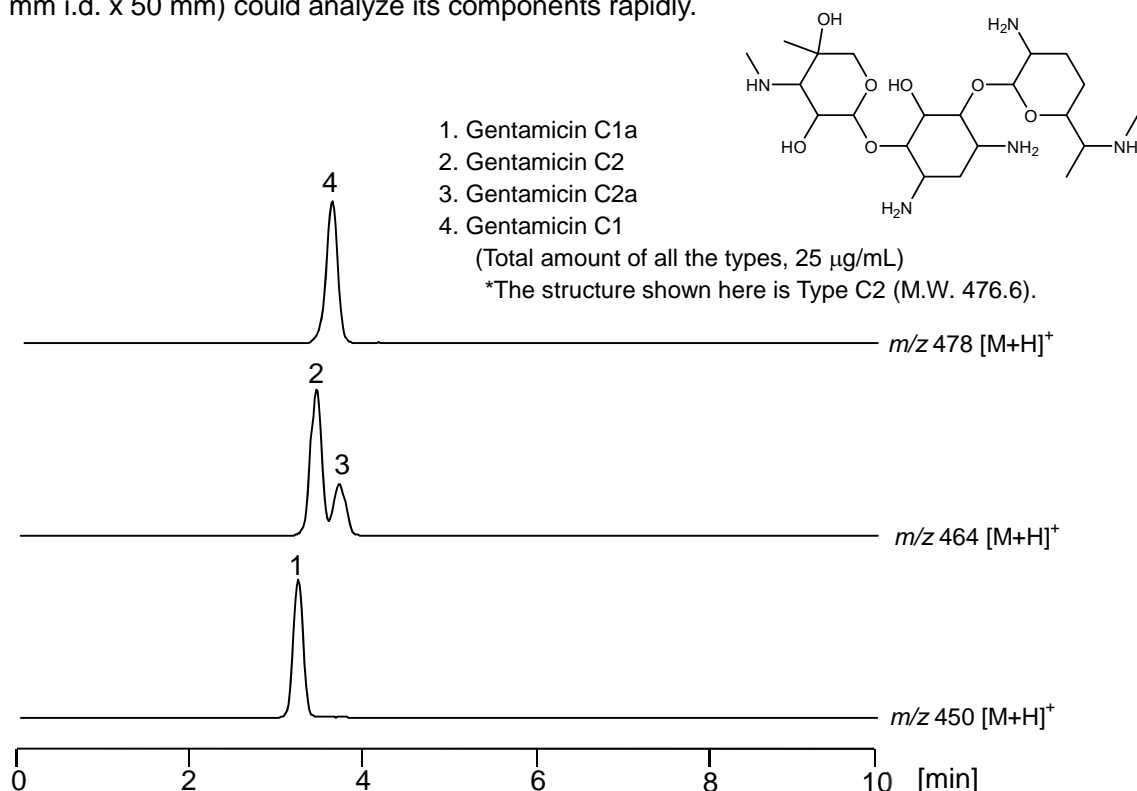


ゲンタマイシン

Gentamicin

アミノグリコシド系の抗生物質、ゲンタマイシンは複数の成分から成ることが知られています。本物質は光学的な検出が不可能なため、LC-MSが有効な分析手段です。CAPCELL PAK C₁₈ MGIII-H S3 (2.0 mm i.d. x 50 mm) を用い迅速に分析した例を示します。

Gentamicin, one of the aminoglycoside antibiotics, is known to consist of several components. Since the antibiotic does not possess an optically detectable moiety, LC-MS seems to be an appropriate analytical tool. LC-MS with CAPCELL PAK C₁₈ MGIII-H S3 (2.0 mm i.d. x 50 mm) could analyze its components rapidly.



【HPLC Conditions】

Column	: CAPCELL PAK C ₁₈ MG III-H S3 ; 2.0 mm i.d. x 50 mm
Mobile phase	: A) 0.1 vol% Heptafluorobutyric acid B) CH ₃ OH B 45 % (0 min) → 50 % (5 min) → 50 % (6.5 min) → 45 % (6.6 min) Gradient
Flow rate	: 300 µL/min
Temperature	: 40 °C
Detection	: MS
Ionization	: ESI Positive
Inj. vol.	: 2 µL
Sample dissolved in	: H ₂ O ※1 µg/mL = 1 ppm