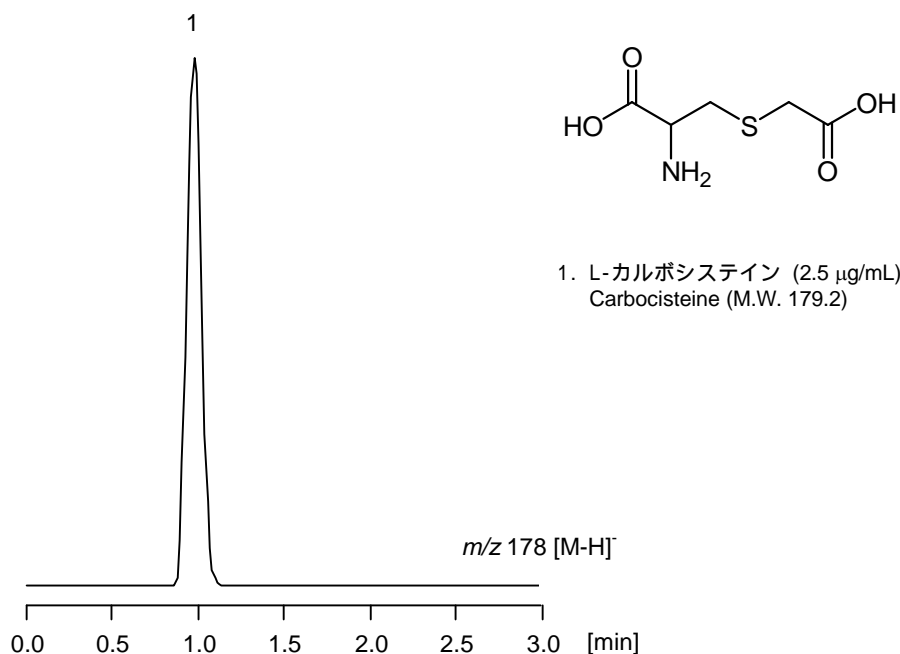


L-カルボシステイン

L-Carbocisteine

粘液溶解薬，L-カルボシステインは慢性閉塞性肺疾患の治療に用いられます．この化合物は逆相系カラムでは全く保持できないため，CAPCELL PAK SCX UG80 S5 (2.0 mm i.d. x 50 mm) を用いカチオン交換作用による分離が有効な手段です．

Carbocisteine, one of the mucolytic medicines, is used for chronic obstructive pulmonary disease. Since the compound is not able to be retained in a reversed-phase column, it seems appropriate to use CAPCELL PAK SCX UG80 S5 (2.0 mm i.d. x 50 mm), a column for cation-exchange chromatography.



【HPLC Conditions】

Column	: CAPCELL PAK SCX UG80 S5 ; 2.0 mm i.d. x 50 mm
Mobile phase	: 0.1 vol% HCOOH, 2 mmol/L HCOONH ₄ , / CH ₃ CN = 80 / 20
Flow rate	: 400 μL/min
Temperature	: 50 °C
Detection	: MS
Ionization	: ESI negative
Inj. vol.	: 1 μL
Sample dissolved in	: A tablet containing 250 mg of the compound was dissolved in 100 mL of 40 mmol/L NaOH. The solution was 100-fold diluted with water. 1 μg/mL = 1 ppm