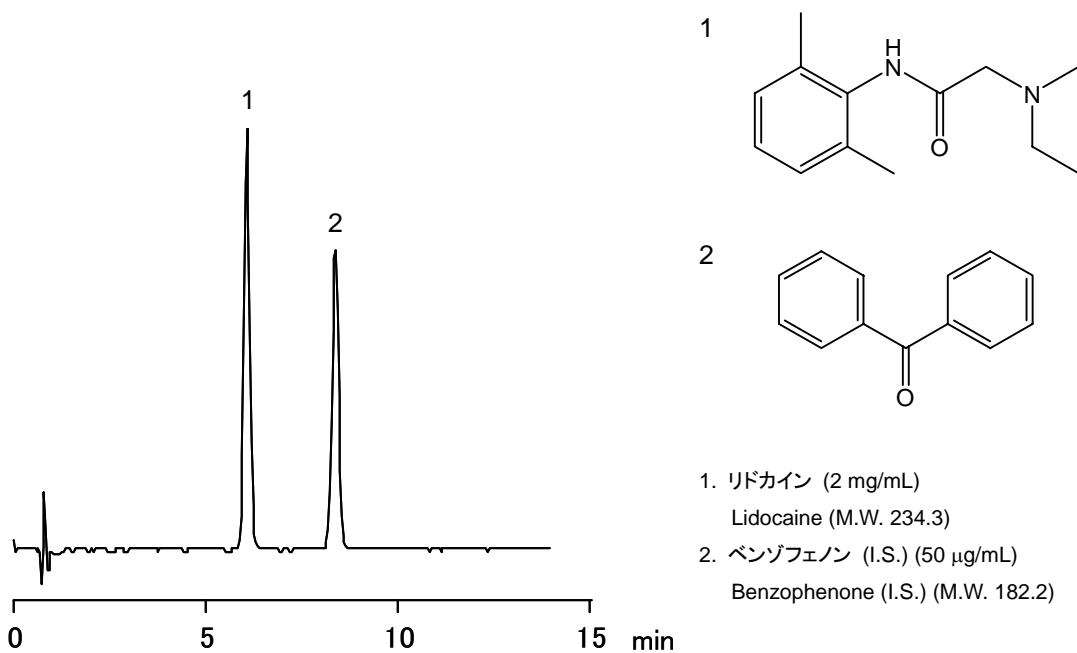


## リドカイン（注射液中）

## Lidocaine (in parenteral solution)

日本薬局方におけるカラム選定条件は、「リドカイン，内標準物質の順に溶出し，その分離度が6以上あるものを用いる」と定められています．CAPCELL PAK C<sub>18</sub> MGII では，分離度が7.8でした．

The Japanese Pharmacopoeia requires a column to elute compounds in the order of lidocaine and its internal standard, with a resolution value of 6 or greater between the two compounds. CAPCELL PAK C<sub>18</sub> MGII showed a resolution of 7.8.



### 【HPLC Conditions】

- Column : CAPCELL PAK C<sub>18</sub> MGII S5 ; 4.6 mm i.d. x 150 mm  
Mobile phase : {20 mmol/L KH<sub>2</sub>PO<sub>4</sub> (adjusted at pH 3.0 with phosphoric acid) / CH<sub>3</sub>CN = 55 / 45} / Sodium dodecyl sulfate = 1000 mL / 2.88 g  
Flow rate : 1.8 mL/min  
Temperature : 25 °C  
Detection : UV 254 nm  
Inj. vol. : 5 µL  
Sample dissolved in : 0.5 mL of 1 mol/mL HCl was added to 100 mg of lidocaine. A few milliliters of 1 mmol/L HCl was further added so that the compound be completely dissolved. 10 mL of the internal standard solution (benzophenone in methanol, 250 µg/mL) was added to the solution. The solution was diluted to 50 mL in a volumetric flask with 1 mmol/L HCl.  
※ 1 µg/mL = 1 ppm