

Application Report 280

Separation of Hydrophobic Bases Using Ascentis™ C18

This application demonstrates the suitability of Ascentis C18 for the efficient separation of hydrophobic bases quinidine, diphenhydramine and fluoxetine by HPLC.

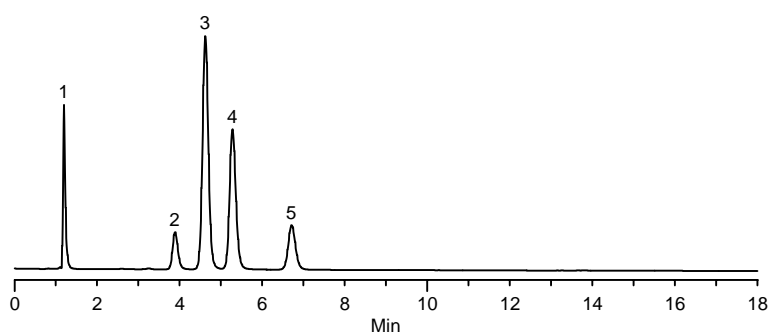
Key Words

Ascentis C18, 581324-U, hydrophobic bases, quinidine HCl, 2-0750, 6151-40-2, diphenhydramine, D3630, 147-24-0, fluoxetine HCl, F132, 59333-67-4

Author: Jacinth A.M. McKenzie

Acquisition System: Hitachi LC

Notebook Reference: 1550-18



G003041

Conditions

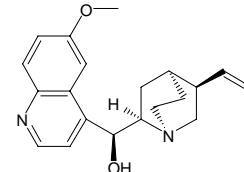
column: Ascentis C18, 15 cm x 4.6 mm I.D., 5 µm particles (581324-U)
mobile phase: 35:65, 25 mM ammonium phosphate (pH 7.0):methanol
flow rate: 1.2 mL/min.
temp.: 35 °C
det.: UV at 230 nm
injection: 10 µL
sample: N05158

Peak IDs

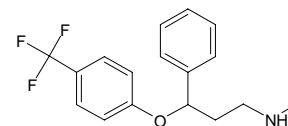
1. Uracil
2. Hydroquinidine
3. Quinidine
4. Fluoxetine
5. Diphenhydramine

Structures

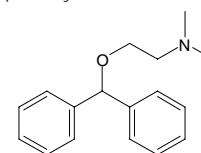
Quinidine - G002609



Fluoxetine - G002611



Diphenhydramine - G002610



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