

Application Report 260

Analysis of Tetracyclines Using Ascentis™ C18

This application demonstrates the suitability of the Ascentis C18 for the analysis of tetracycline and 4-epitetracycline. Structures along with the optimized chromatogram obtained on the Ascentis C18 are presented.

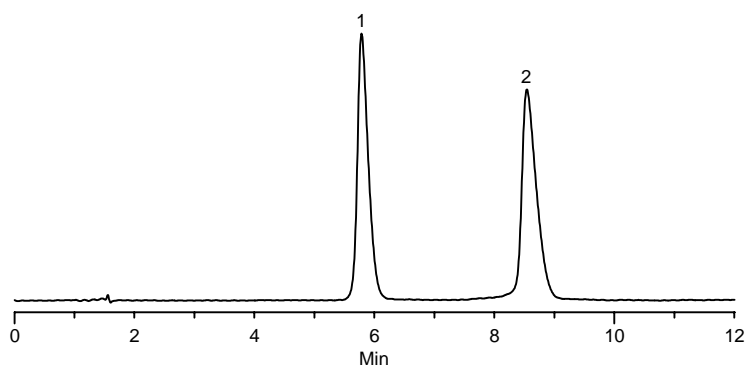
Key Words

tetracycline, 64-75-5, T7660, 4-epitetracycline, 23313-80-6, 37918, Ascentis C18, 581324-U

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Acquisition System: Mt Fuji Hitachi

Notebook Reference: 1551



G002978

Conditions

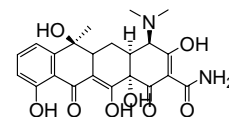
column: Ascentis C18, 15 cm x 4.6 mm I.D., 5 µm particles (581324-U)
mobile phase: 80:20, 5 mM oxalic acid (pH 2.3 unadjusted):methanol
flow rate: 1.0 mL/min.
temp.: 35 °C
det.: UV at 353 nm
injection: 10 µL
sample: 100 µg/mL in mobile phase

Peak IDs

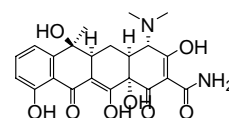
1. 4-epitetracycline
2. Tetracycline

Structures

4-epitetracycline - G002976



Tetracycline - G002977



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