

# Application Report 261

## Analysis of Tetracyclines Using Ascentis™ RP-Amide

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

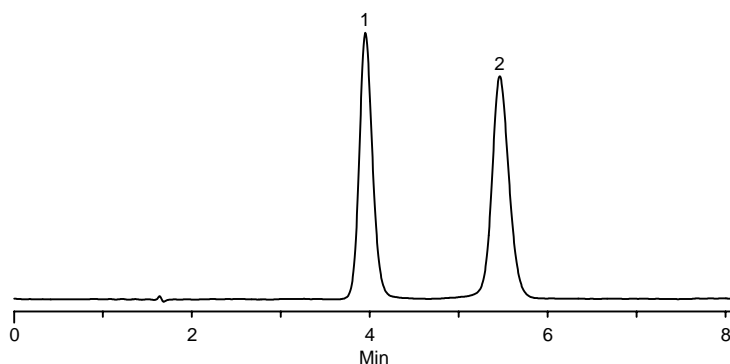
### Key Words

tetracycline, 64-75-5, T7660, 4-epitetracycline, 23313-80-6, 37918, Ascentis RP-Amide, 565324-U

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Acquisition System: Mt Fuji Hitachi

Notebook Reference: 1551



G002979

### Conditions

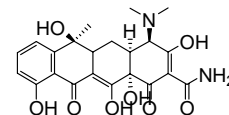
column: Ascentis RP-Amide, 15 cm x 4.6 mm I.D., 5 µm particles (565324-U)  
mobile phase: 80:20, 5 mM oxalic acid (pH 2.3 unadjusted):methanol  
flow rate: 1.0 mL/min.  
temp.: 35 °C  
det.: UV at 353 nm  
injection: 10 µL  
sample: 100 µg/mL in mobile phase

### Peak IDs

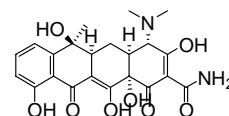
1. 4-epitetracycline
2. Tetracycline

### Structures

4-epitetracycline - G002976



Tetracycline - G002977



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