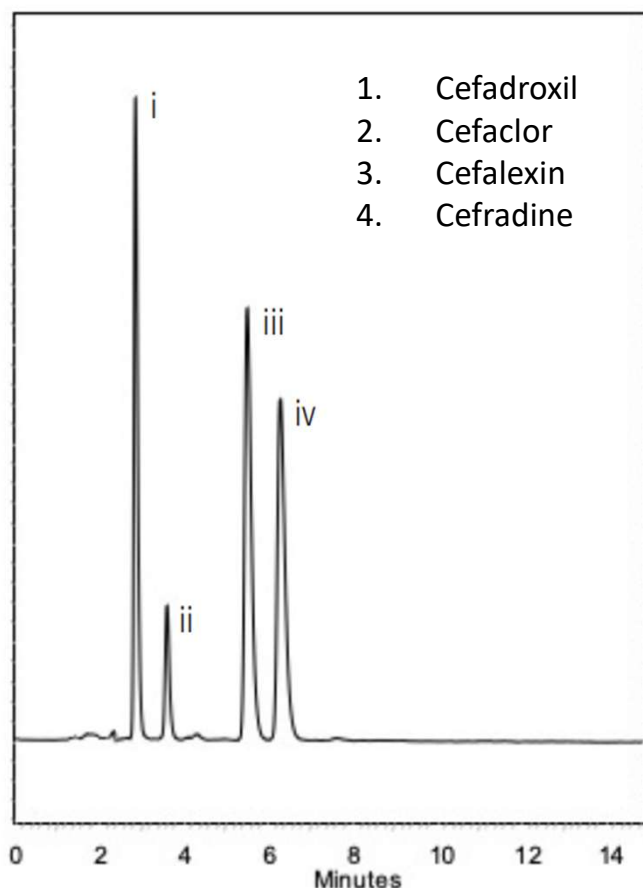
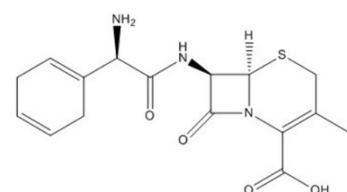
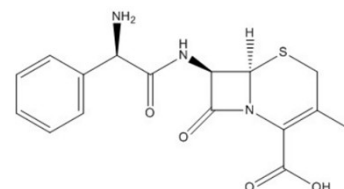
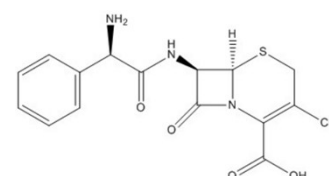
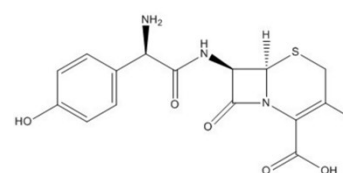


Application Note: Cephalosporins

The aerobic mold which yielded cephalosporin C was found in the sea near a sewage outfall nearby Cagliari harbour, Sardinia, by the Italian pharmacologist Giuseppe Brotzu in July 1945.¹ Since their discovery and subsequent commercialization in 1964, the cephalosporins today are broad-spectrum β -lactam antibiotics used for the treatment of a number of bacterial conditions including septicaemia, pneumonia and meningitis.² The pharmacology of cephalosporins is similar to that of the penicillin class of compounds. This application brief describes use of a Horizon Phenyl column in the analysis of several cephalosporins, a mixture of first and second generation β -lactam antibiotics.

This application shows the use of a Horizon Phenyl column for the analysis of several cephalosporins.



1. Cefadroxil
2. Cefaclor
3. Cefalexin
4. Cefradine

Column: Horizon Phenyl, 5 μ m
150x4.6mm

Mobile Phase: 80:20 0.01% Formic acid/ACN
Flow rate: 1.0 ml/min
Wavelength: 254nm
Temperature: 25°C