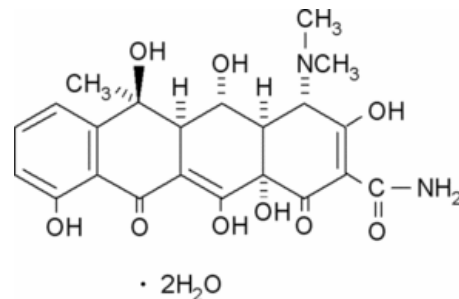
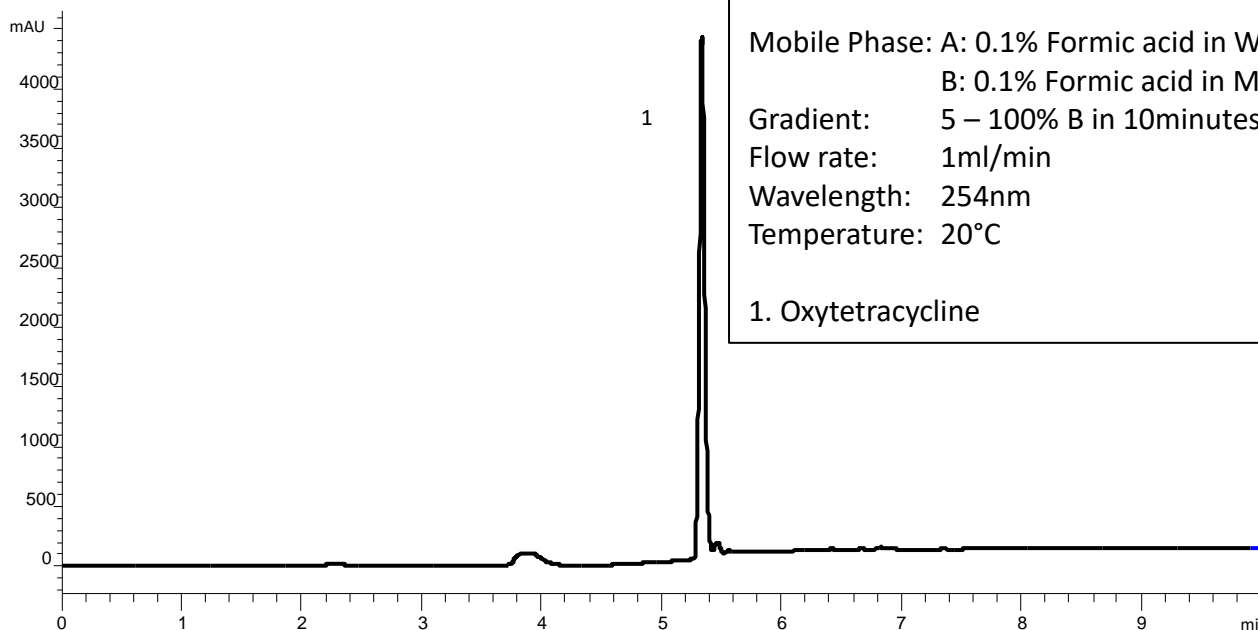


# Application Note: Oxytetracycline

Oxytetracycline is a broad-spectrum tetracycline antibiotic, the second of the group to be discovered. Oxytetracycline works by interfering with the ability of bacteria to produce essential proteins. Without these proteins, the bacteria cannot grow, multiply and increase in numbers. Oxytetracycline therefore stops the spread of the infection and the remaining bacteria are killed by the immune system or eventually die.



Some strains of bacteria have developed resistance to this antibiotic, which has reduced its effectiveness for treating some types of infections. However the drug is particularly useful when penicillins and/or macrolides cannot be used due to allergy



**Columns:** AuraShell C18 5 $\mu$  150x4.6mm

Mobile Phase: A: 0.1% Formic acid in Water

B: 0.1% Formic acid in MeCN

Gradient: 5 – 100% B in 10minutes

Flow rate: 1ml/min

Wavelength: 254nm

Temperature: 20°C

1. Oxytetracycline