

Time (minutes)	%B
0	15

7.5	15
7.6	40
10	15

Injection vol.: 10µL

Flow rate: 1.0 mL / minute

Detection: UV @ 280nm

Sample Preparation: Standard solution: 100µg / mL of USP Tetracycline in Mobile Phase A

Most recently appeared in Pharmacopeial Forum: Volume No. 43(6) Page Information:

USP43-NF38 - 1827

USP42-NF37 - 1787

USP41-NF36 - 1690

Note: Tetracycline is a broad spectrum antibiotic produced by the *Streptomyces* genus of Actinobacteria. It exerts a bacteriostatic effect on bacteria by binding reversible to the bacterial 30S ribosomal subunit and blocking incoming aminoacyl tRNA from binding to the ribosome acceptor site. It also binds to some extent to the bacterial 50S ribosomal subunit and may alter the cytoplasmic membrane causing intracellular components to leak from bacterial cells.



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