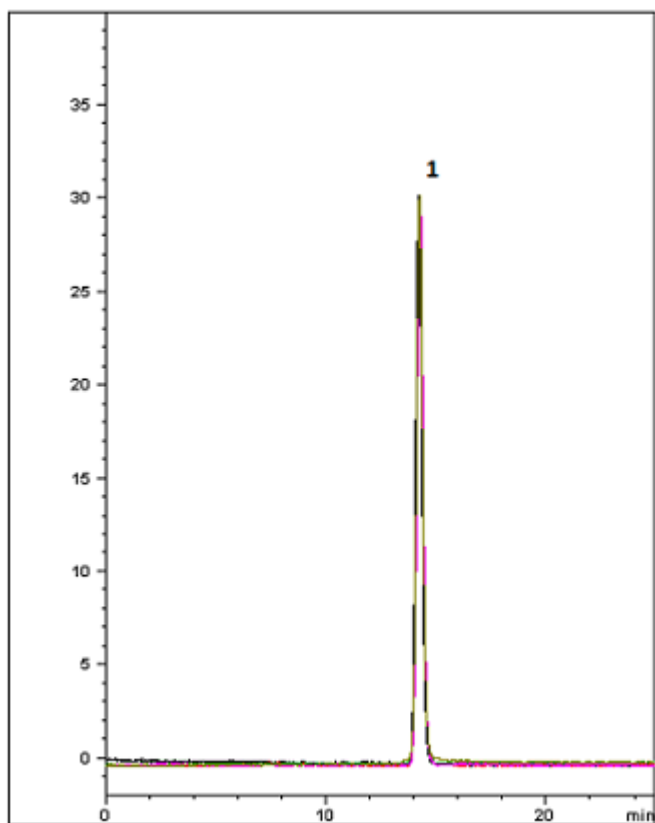


Felodipine Extended-Release Tablets USP Assay – AppNote

USP Method for Felodipine ER Tablets

This method presents the USP Felodipine Extended-Release Tablet assay using the Cogent RP C18. As shown in the chromatogram with a five injection overlay, the peak efficiency is superb and USP peak tailing guidelines are easily met with the Cogent RP C18™ column. This demonstrates a great alternative Column for easy plug and play or alternate for this USP Method.



 **Peak:**
Felodipine

Method Conditions:

Column: Cogent RP C18™, 5µm, 100Å

Catalog No.: 68518-15P

Dimensions: 4.6 x 150 mm

Buffer: 6.9 mg/mL of Monobasic Sodium Phosphate in Water. *Adjust with 1 M Phosphoric Acid to a pH of 3.0 ± 0.05*

Mobile Phase: Acetonitrile, Methanol, and Buffer (40:20:40)

Injection vol.: 40µL

Flow rate: 1.0 mL/minute

Detection: UV @ 362 nm

Sample: Standard solution: 0.02 mg/mL of USP Felodipine in Mobile phase

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

USP43-NF38 - 1827

USP42-NF37 - 1787

USP41-NF36 - 1690

Note: Felodipine is a calcium channel blocker and acts primarily on vascular smooth muscle cells by stabilizing voltage-gated L-type calcium channels in their inactive conformation. Felodipine prevents myocyte contraction by binding to calcium-binding proteins, which exhibits competitive antagonism of the mineralcorticoid receptor. This event results into inhibiting the activity of calmodulin-dependent cyclic nucleotide phosphodiesterase and blocking calcium influx through voltage-gated T-type calcium channels. This reduces movement of calcium into the cells of the heart and blood vessels and increases supply of blood and oxygen to the heart.



Attachment:

No. 387 Felodipine Extended Release USP Method pdf 84.7 Kb [Download File](#)

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