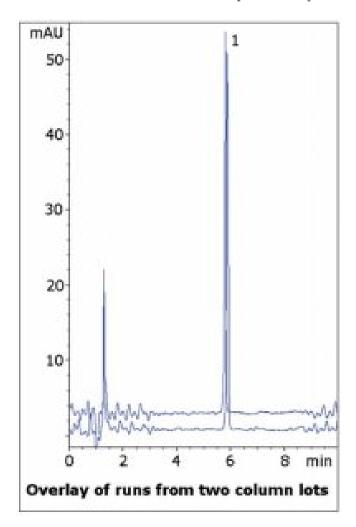


## Effexor Capsule Analyzed by HPLC- AppNote

## **Reducing Tailing for Venlafaxine with HPLC**

The USP assay Method for Venlafaxine capsules uses Triethylamine and Phosphoric Acid in the Mobile Phase, both of which are incompatible with LC-MS. The system suitability for Venlafaxine tailing factor is 2.0, indicating the compound has a tendency for tailing. Here a sharp symmetrical peak is observed using Formic Acid. Data from two Column lots is shown to illustrate reproducibility.



Venlafaxine



**Column:** Cogent Diamond Hydride<sup>™</sup>, 4μm, 100Å

**Catalog No.:** 70000-7.5P **Dimensions:** 4.6 x 75mm

**Mobile Phase:** 

A: DI Water / 0.1% Formic Acid (v/v)
B: Acetonitrile / 0.1% Formic Acid (v/v)

## **Gradient:**

Time (minutes)	%B
0	95
1	95
6	50
7	95

Post Time: 3 minutes
Injection vol.: 1µL

Flow rate: 1.0mL / minute Detection: UV @ 226nm

**Sample Preparation:** 75mg strength Effexor® Extended Release capsule contents were added to a 25mL volumetric flask. A portion of 50/50 Solvent A / Solvent B diluent was added and the flask was sonicated 10 minutes. It was then diluted to mark and mixed. A portion was filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.) and diluted 1:50.

**to:** 0.9 minutes

**Note:** Venlafaxine is a serotonin-norepinephrine reuptake inhibitor used to treat various depressive and anxiety disorders. It is currently marketed by Pfizer as Effexor®. It is a phenethylamine and shares structural similarities with other compounds in this class, such as amphetamine, methamphetamine, and MDMA.



## Attachment

No 237 Effexor Venlafaxine Capsule Analyzed by HPLC pdf 0.4 Mb Download File

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