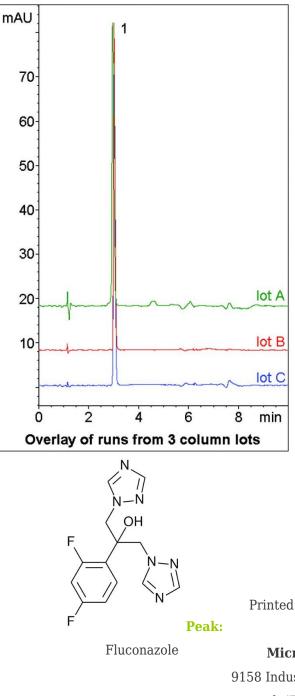
# MICROS

## Fluconazole Tablet Analyzed with HPLC – AppNote

## **Assay Method for Amine Containing API**

This Application Note shows a simple Gradient Method for Assay of Fluconazole Tablets. In Reversed Phase HPLC, notable tailing was observed due to the two heterocyclic amine groups. Use of Aqueous Normal Phase (*ANP*) HPLC produced a sharp Peak for this API. Data from three different Column lots is shown in order to demonstrate the Method Reproducibility and Robustness.



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### **Method Conditions**

Column: Cogent Diamond Hydride™, 4µm, 100Å



Catalog No.: 70000-7.5P

Dimensions: 4.6 x 75mm

#### Mobile Phase:

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

B: Acetonitrile with 0.1% Formic Acid (v/v)

#### Gradient:

Time (minutes)	%B
0	95
1	95
6	40
7	40

Post Time: 3 minutes

Injection vol.: 1µL

Flow rate: 1.0mL / minute

Detection: UV @ 260nm

**Sample Preparation**: 150mg strength Fluconazole Tablet was ground and added to 50mL volumetric flask containing 25mL 50:50 Solvent A / Solvent B diluent. The solution was sonicated 10 minutes, diluted to mark, and mixed. A portion was filtered through a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.).

**to**: 0.9 minutes

**Note:** Fluconazole is a triazole antifungal drug. Its mode of action is inhibition of fungal Cytochrome P450 enzyme 14a-demethylase. It is available under the trade name Diflucan<sup>®</sup>.



Attachment

No 255 Fluconazole Tablet Analyzed with HPLC pdf  $0.4\ {\rm Mb}$ 

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