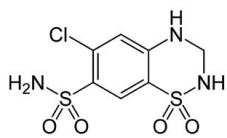
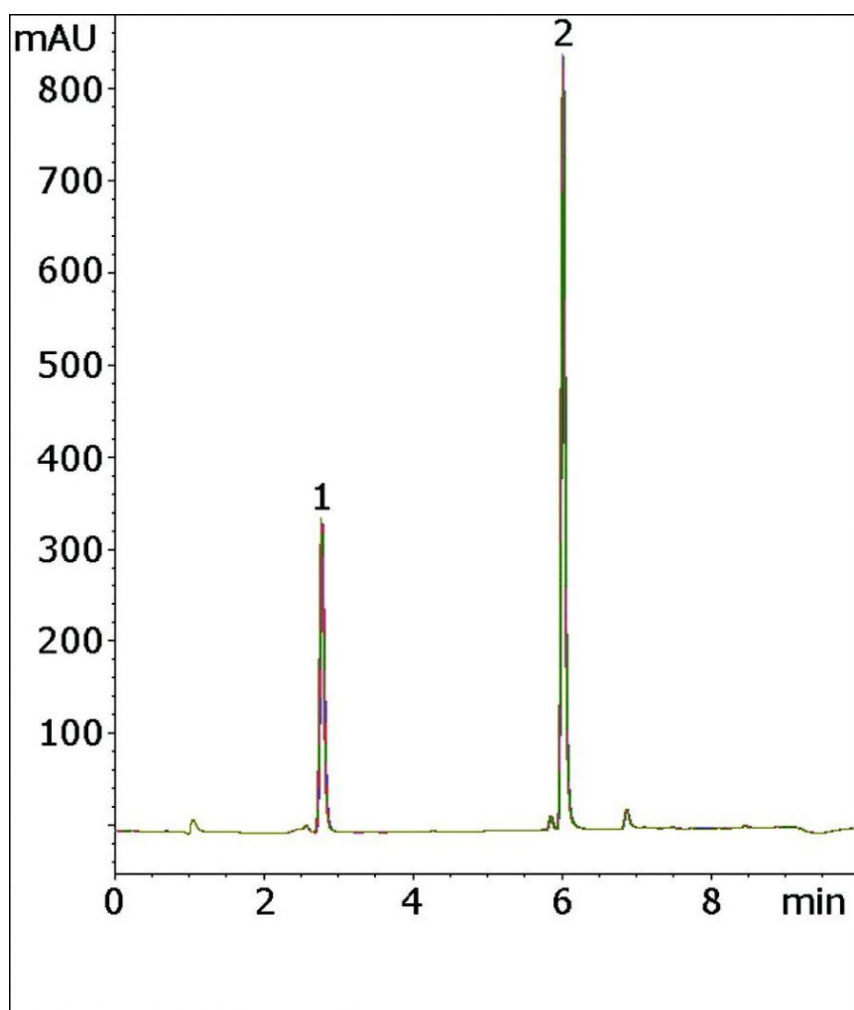


## Valsartan and Hydrochlorothiazide Analyzed with HPLC - AppNote

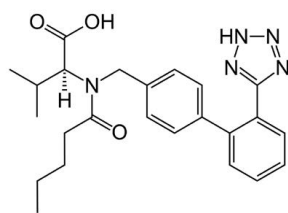
### Improved Gradient Method with Faster Equilibration

The USP Assay Method for Valsartan in combination with Hydrochlorothiazide features a 27 minute gradient with a 13 minute re-equilibration for a total run time of 40 minutes. In this method, the run time was a quarter of the USP method, and the Column equilibrates much faster when gradients are used. This demonstrates a substantial time and solvent savings for the analytical laboratory.

Five Chromatograms are overlaid below which shows the Robustness and Precision of this Method.



1



2

Peaks:

1. Hydrochlorothiazide (HCT)

2. Valsartan

## Method Conditions

**Column:** Cogent Bidentate C18™, 4µm, 100Å

**Catalog No.:** 40018-75P

**Dimensions:** 4.6 x 75mm

### Mobile Phase:

A: DI Water / 0.1% Trifluoroacetic Acid (TFA)

B: Acetonitrile / 0.1% Trifluoroacetic Acid (TFA)

### Gradient:

Time (minutes)	%B
0	10
8	90
9	10

**Post Time:** 1 minute

**Injection vol.:** 10µL

**Flow rate:** 1.0ml / minute

**Detection:** UV @ 265nm

### Sample Preparation:

*Stock Solution:* A Diovan® HCT brand tablet containing 160mg Valsartan and 25 mg Hydrochlorothiazide was ground and added to a 50 mL volumetric flask. The flask was diluted to mark with 50:50 Solvent A / Solvent B mixture and sonicated. A portion was then filtered with a 0.45µm Nylon Syringe Filter AQ™ Brand (MicroSolv Tech Corp.).

*Working Solution:* 100µL of the stock solution was diluted with 900µL of a 50:50 Solvent A / Solvent B mixture.

**t<sub>0</sub>:** 1 minute

### Comparison of This Method and the USP Method

	Bidentate C18	Ordinary C18
Total Run Time	10 Minutes	40 Minutes
Column Volume Equilibration	1 Column	10 Columns
Solvent Usage per Run	10ml	40ml



### Attachment

**No 150 Valsartan and Hydrochlorothiazide Analyzed with HPLC pdf** [Download File](#)

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