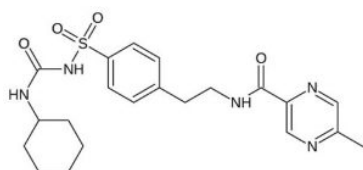
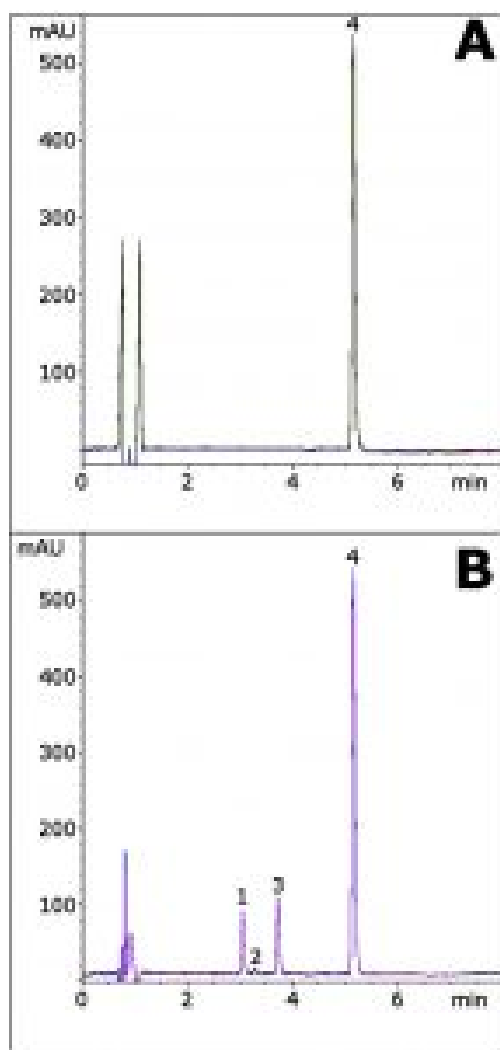


## Glipizide Analyzed with HPLC – AppNote

### Separation of API from Acid Degradation Products

This Method illustrates the capabilities to separate several Glipizide Degradants that are formed under acidic conditions. Good separation is obtained as well as Sharp, Symmetric Peak shapes for each compound.

The Retention times show good repeatability as well, as demonstrated in the Figure overlays. Also, the Mobile Phase Solvents are LCMS compatible, which expands the potential applications of the Method. Finally, Gradient Equilibration is fast and requires only 1 Column volume.



#### Peaks:

1. Degradant
2. Degradant

3. Degradant

4. Glipizide

## Method Conditions

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

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

**Dimensions:** 4.6 x 75mm

**Mobile Phase:**

A: DI Water / 0.1% Formic Acid

B: Acetonitrile / 0.1% Formic Acid

**Injection vol.:** 10μL

**Flow rate:** 1mL / minute

**Detection:** UV @ 225nm

**Sample Preparation:**

*Figure. A (Non-Degraded):* 0.1mg / mL Glipizide in Methanol diluent.

*Figure. B (Acid Degradation):* 0.1mg / mL Glipizide in 50:50 Methanol /1N HCl diluent. Sample was heated at 85°C for 1 hour.

**t<sub>0</sub>:** 0.9 minutes

**Note:** Glipizide is an anti-diabetic sulfonylurea drug, sold under the trade name Glucotrol®.



## Attachment

**No 165 Forced Degradation of Glipizide with HPLC pdf** 0.3 Mb [Download File](#)

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Date: 05-07-2024