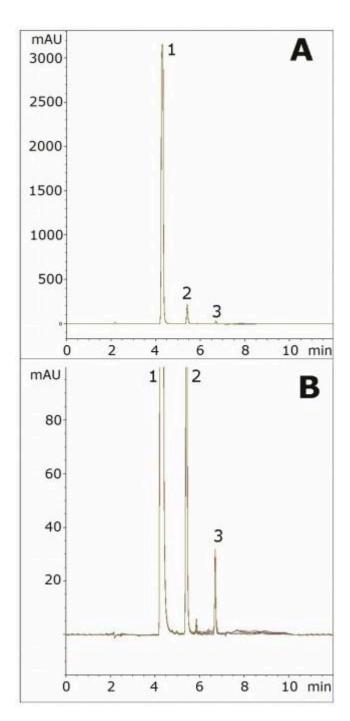
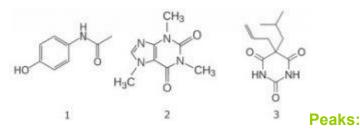


## Fioricet Analyzed with HPLC - AppNote

## Gradient Separation of Acetaminophen, Caffeine, and Butalbital

In this Method, a simple Reversed Phase gradient is used to separate the three components of a Fioricet tablet. *Figure A* shows the five-run overlay obtained from the gradient. *Figure B* shows a "zoomed in view" so that the Butalbital Peak can be seen clearly.





- 1. Acetaminophen
  - 2. Caffeine
  - 3. Butalbital

## **Method Condtions**

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

**Catalog No.:** <u>40018-15P</u> **Dimensions:** 4.6 x 150mm

**Mobile Phase:** 

A: DI Water / 0.1% Formic Acid

B: 97% Acetonitrile / 3% DI Water / 0.1% Formic Acid

**Gradient:** 

| Time (minutes) | %B |
|----------------|----|
| 0              | 10 |
| 6              | 70 |
| 7              | 10 |

Temperature: 35°C Injection vol.: 10µL

Flow rate: 0.8mL / minute Detection: UV @ 240nm Sample Preparation:

Stock Solution: Fioricet tablet was ground, added to 10mL volumetric flask and diluted with 50:50 Solvent A / Solvent B mixture. The flask was vortexed 5 minutes and a portion of the solution was filtered with a 0.45µm Nylon Syringe Filter.

Working Solution:  $10\mu L$  of the stock was diluted with  $990\mu L$  of 50:50 Solvent A / Solvent B mixture.

to: 2.2 minutes

**Note:** Fioricet/Esgic is a combination of Acetaminophen, Caffeine, and Butalbital. It is used to treat tension headaches, muscle contraction headaches, and migraines.



## **Attachment**

No 137 Fioricet Analyzed with HPLC pdf 0.9 Mb Download File

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Email: customers@mtc-usa.com

Website: www.mtc-usa.com