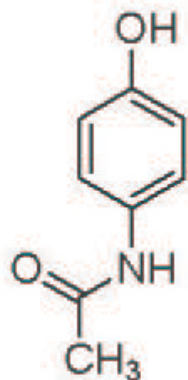
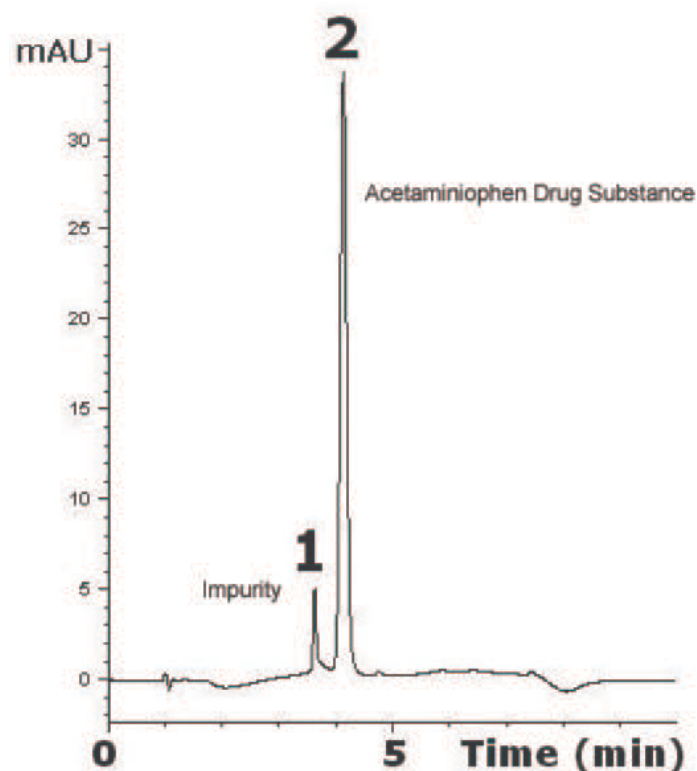


## Acetaminophen & Impurity Analyzed with HPLC – AppNote

### APAP Drug Substance Analysis with HPLC

This Method has been developed for determination of Acetaminophen as a Drug Substance. The Separation was achieved on a C18 Column using Gradient Elution. The Method shown here has excellent Reproducibility of Acetaminophen for 5 consecutive Chromatograms shown had 0.03% RSD. This could be used for Quality Control of Acetaminophen.



#### Peaks:

1. Impurity
2. Acetaminophen

### Method Conditions

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

Printed from the Chrom Resource Center  
Copyright 2024, All Rights Apply  
**MicroSolv Technology Corporation**  
9158 Industrial Blvd. NE, Leland, NC 28451  
tel. (732) 380-8900, fax (910) 769-9435  
Email: [customers@mtc-usa.com](mailto:customers@mtc-usa.com)  
Website: [www.mtc-usa.com](http://www.mtc-usa.com)

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

**Dimensions:** 4.6 x 75mm

**Mobile Phase:**

A: DI Water / 0.1% Acetic Acid / 0.005% Trifluoroacetic Acid (TFA)

B: 100% Acetonitrile / 0.1% Acetic Acid / 0.005% Trifluoroacetic Acid (TFA)

**Gradient:**

Time (minutes)	%B
0	0
1	0
4	30
6	30
6.01	0
10	0

**Injection vol.:** 2µL

**Flow rate:** 1mL / minute

**Detection:** UV @ 254nm

**Sample Preparation:** 1mg of the Compound was dissolved in 1mL of 50:50 Solvent A / Solvent B solution. *Sample for Injection* was diluted 1:15 with 100% Solvent A.

**Notes:** Acetaminophen (*n*-acetyl-*p*-aminophenol, APAP) is a non-steroidal anti-inflammatory drug (NSAID) which is widely used for the management of pain and fever. Safety concerns require analyzing the composition of the pharmaceutical formulations.



**Attachment**

**No 68 Acetaminophen & Impurity Analyzed with HPLC pdf** 0.1 Mb [Download File](#)

Printed from the Chrom Resource Center

Copyright 2024, All Rights Apply

**MicroSolv Technology Corporation**

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: [customers@mtc-usa.com](mailto:customers@mtc-usa.com)

Website: [www.mtc-usa.com](http://www.mtc-usa.com)