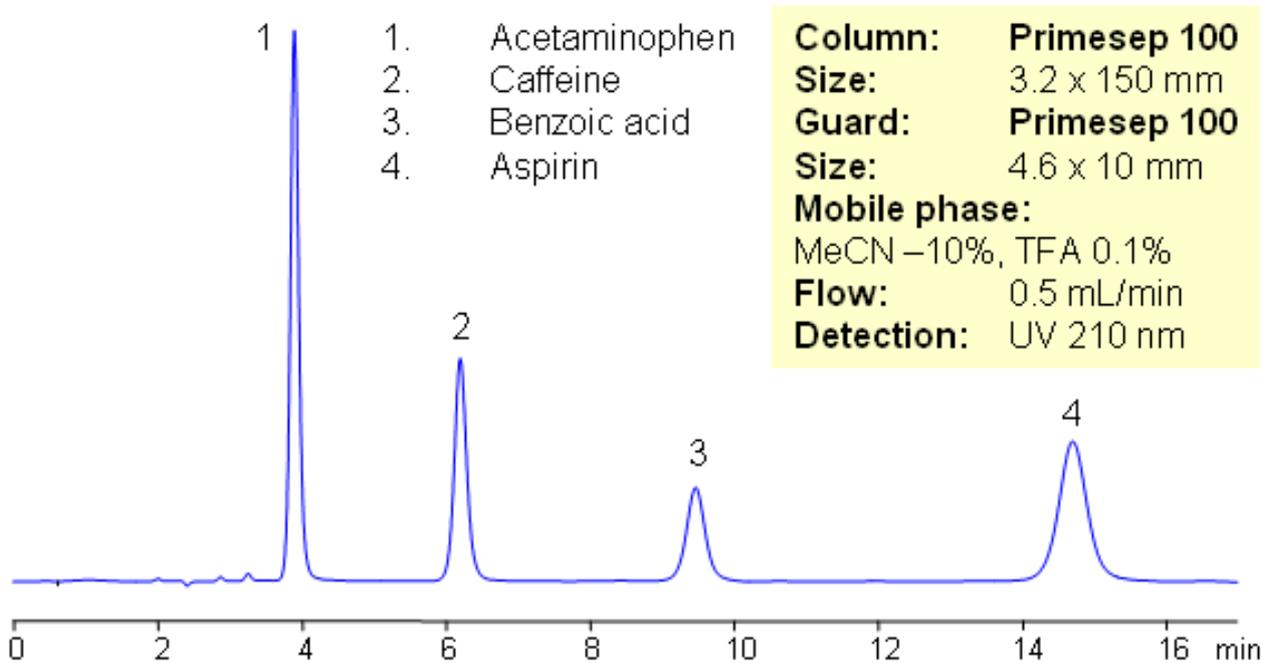


## HPLC Separation of Components of Excedrin (Benzoic acid, Acetaminophen, Caffeine, Aspirin)



Excedrin is over-the-counter pain reliever containing acetaminophen, caffeine and aspirin as active ingredients of this drug composition. Acetaminophen (paracetamol) is used as analgesic and pain reliever. It is a neutral compound with low hydrophobicity. Aspirin or acetylsalicylic acid is used as analgesic and anti-inflammatory component of many OTC compositions. It is weakly acidic and slightly hydrophobic compound. Caffeine is xanthine alkaloid which is psychoactive stimulant drug. All four compounds are separated on mixed-mode Primesep 100 HPLC column with acetonitrile/water/TFA mobile phase. In this HPLC application compounds are retained by reversed phase mechanism. This HPLC method is short and robust.

### Method Parameters

<b>Column</b>	Primesep 100, 3.2x150 mm, 5 µm, 100 Å
<b>Mobile Phase</b>	MeCN/H <sub>2</sub> O
<b>Buffer</b>	TFA
<b>Flow Rate</b>	0.5 mL/min
<b>Detection</b>	UV, 210 nm

Quelle: <https://sielc.com/Application-HPLC-Separation-of-Components-of-Excedrin>