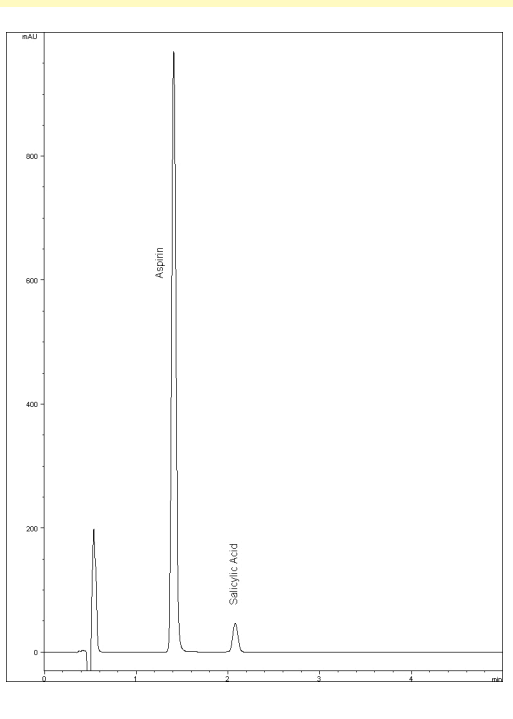
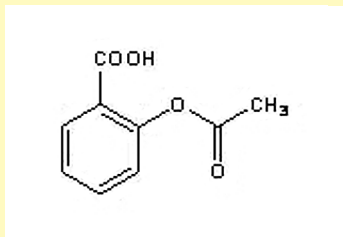


Aspirin & Salicylic Acid

Excellent Peak Shape For a Very Difficult Compound



Method Conditions

Column:	Cogent Bidentate C18™, 4µm, 100Å
Catalog No.:	40018-75P
Dimensions:	4.6 x 75 mm
Mobile phase:	48:52 Acetonitrile: DI Water + 0.1% Phosphoric Acid
Flow rate:	1.5 mL/min.
Peaks:	1. System Peak 2. Aspirin (Acetylsalicylic Acid) 3. Salicylic Acid
Injection Volume:	10 µL
Detection:	UV 210 nm
Temperature:	25°C

Discussion

This method is easy to prepare, use and reproduce a good separation of aspirin from its major hydrolysis product, salicylic acid. Note the excellent peak shape and selectivity. Salicylic acid can be very difficult to adequately chromatograph on columns with ordinary silica.

For more information visit www.MTC-USA.com

Note: Aspirin, or acetylsalicylic acid (ASA) is a salicylate drug, often used as an analgesic to relieve minor aches and pains, as an antipyretic to reduce fever, and as an anti-inflammatory medication. In countries where Aspirin is a registered trademark owned by Bayer, the generic term is "ASA." Aspirin also has an antiplatelet or "anti-clotting" effect and is used in long-term, low doses to prevent heart attacks, strokes and blood clot formation in people at high risk for developing blood clots. It has also been established that low doses of aspirin may be given immediately after a heart attack to reduce the risk of another heart attack or of the death of cardiac tissue. Aspirin was the first-discovered member of the class of drugs known as non-steroidal anti-inflammatory drugs (NSAIDs), not all of which are salicylates, although they all have similar effects and most have some mechanism of action which involves non-selective inhibition of the enzyme cyclooxygenase. Today, aspirin is one of the most widely used medications in the world, with an estimated 40,000 metric tons of it being consumed each year

Cat. No.	Description
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40018-75P	Cogent Bidentate C18™ HPLC Column, 4mm, 100A, 4.6mm x 75mm
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