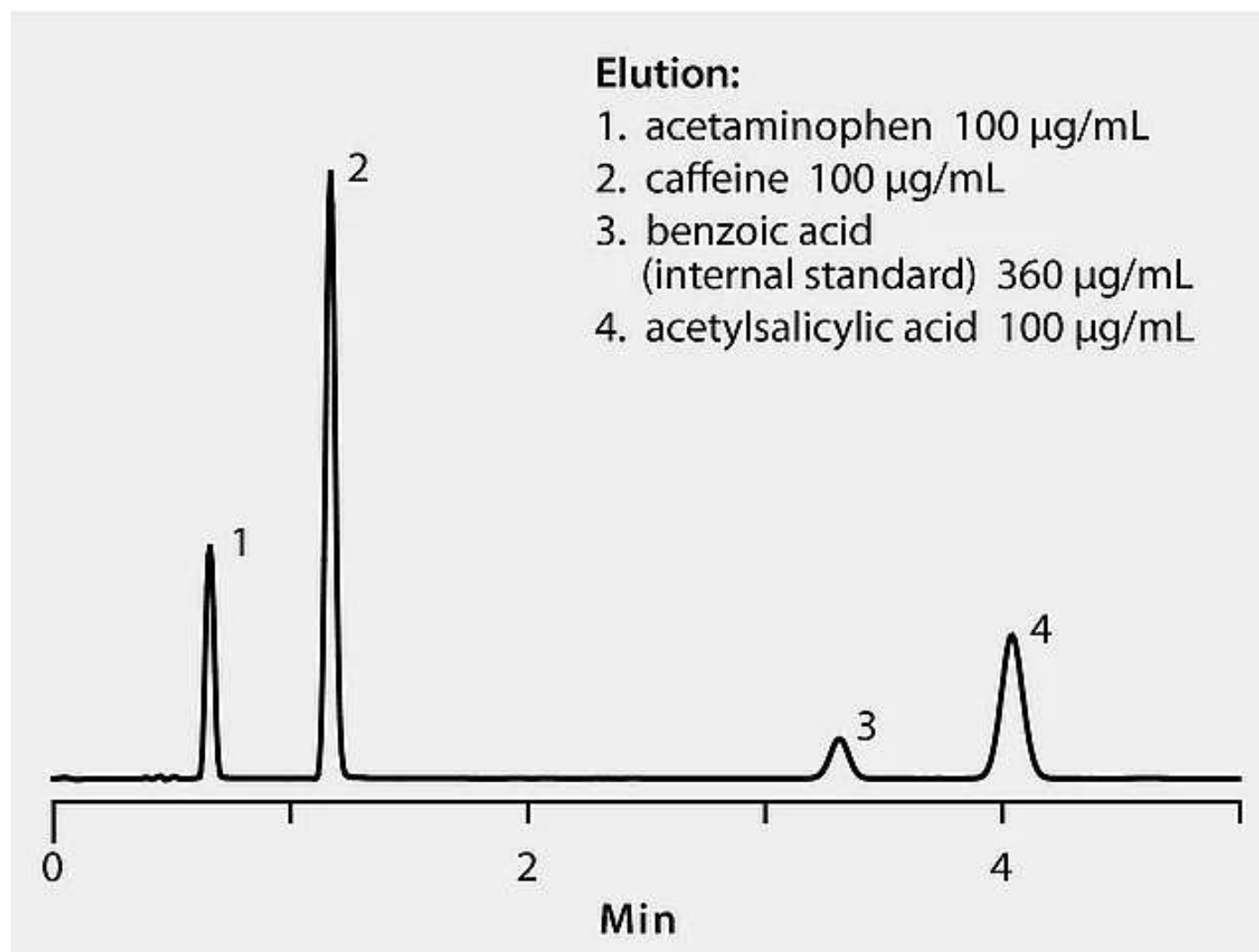


< HPLC Analysis of Pain Relievers on Ascentis[®] Express C18

HPLC Analysis of Pain Relievers on Ascentis[®] Express C18



Conditions

Column Ascentis Express C18, 10 cm x 4.6 mm I.D., 5 µM particles (50536-U)

Column Temp. 45 °C



Conditions



















Mobile Phase	[A] water with 3% acetic acid; [B] methanol with 3% acetic acid; (79:21, A:B)
Flow Rate	2.0 mL/min
Pressure	3290 psi (227 bar)
Sample	100 - 360 µg/mL in mobile phase
Injection	10 µL
Detector	UV, 275 nm

Description

Analysis Note	This application shows the improvements in efficiency that may be obtained for USP methods using modern Fused-Core technology.
Categories	Analytical Chromatography, Clinical, analgesics, Analgesics
Featured Industry	Clinical Pharmaceutical (small molecule)
Legal Information	Ascentis is a registered trademark of Sigma-Aldrich Co. LLC
Suitability	application for HPLC

Materials

Product No.	Description	SDS	Pricing
PHR1005	Acetaminophen Pharmaceutical Secondary Standard; Certified Reference Material	↓	Expand 
1003009	Acetaminophen	↓	Expand 

Product No.	Description	SDS	Pricing
	United States Pharmacopeia (USP) Reference Standard		
5.33001	Acetic acid 100% for LC-MS LiChropur™	↓	Expand 
1.00029	Acetonitrile hypergrade for LC-MS LiChrosolv®	↓	Expand 
Y0001460	Acetylsalicylic acid for peak identification European Pharmacopoeia (EP) Reference Standard	↓	Expand 
73594	Ammonium acetate LiChropur™, eluent additive for LC-MS	↓	Expand 
70221	Ammonium formate eluent additive for LC-MS, LiChropur™, ≥99.0%	↓	Expand 
50536-U	Ascentis® Express C18, 5 µm HPLC Column 5 µm particle size, L × I.D. 10 cm × 4.6 mm		Expand 
1044006	Aspirin United States Pharmacopeia (USP) Reference Standard	↓	Expand 
PHR1003	Aspirin (Acetyl Salicylic Acid) Pharmaceutical Secondary Standard; Certified Reference Material	↓	Expand 
12353	Benzoic acid certified reference material for titrimetry, certified by BAM, ≥99.5%	↓	Expand 
442842	Benzophenone analytical standard	↓	Expand 
PHR1009	Caffeine Pharmaceutical Secondary Standard; Certified Reference Material	↓	Expand 
PHR1095	Caffeine Melting Point Standard Pharmaceutical Secondary Standard; Certified Reference Material	↓	Expand 
5.33002	Formic acid 98% - 100% for LC-MS LiChropur™	↓	Expand 
50296	Melting point standard 47-49°C analytical standard	↓	Expand 
76170	Melting point standard 121-123°C analytical standard	↓	Expand 
41019	Melting point standard 235-237°C analytical standard	↓	Expand 
1.06035	Methanol hypergrade for LC-MS LiChrosolv®	↓	Expand 
1.06007	Methanol	↓	Expand 

Product No.	Description	SDS	Pricing
	gradient grade for liquid chromatography LiChrosolv [®] Reag. Ph Eur		

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