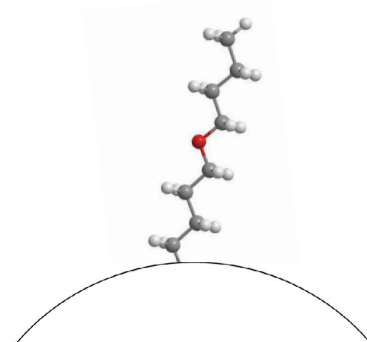


AquaSep Columns

ES Industries AquaSep™ is designed for difficult separation challenges such as polar compounds, compounds requiring a highly aqueous mobile phase, or difficult to retain compounds. The AquaSep phase has been specially developed using patented technology for use with highly aqueous mobile phases, including 100% aqueous. The unique patented approach provides a complete solution to ensure that AquaSep is totally resistant to 'phase collapse' under all mobile phase conditions. In order to obtain high aqueous stability and maximum hydrophobic interaction, AquaSep contains an ether linkage near the point of attachment to the silica base. This allows water to penetrate and hydrate the surface, preventing 'phase collapse'.

Features and Benefits

- Rapid re-equilibration with gradients (0-100%) for fast throughput
- No ion-pairing reagents required for highly polar compounds, simplifying methods
- Patented single step bonding approach results in a phase which is totally resistant to phase collapse and can separate polar compounds with 100% aqueous eluents

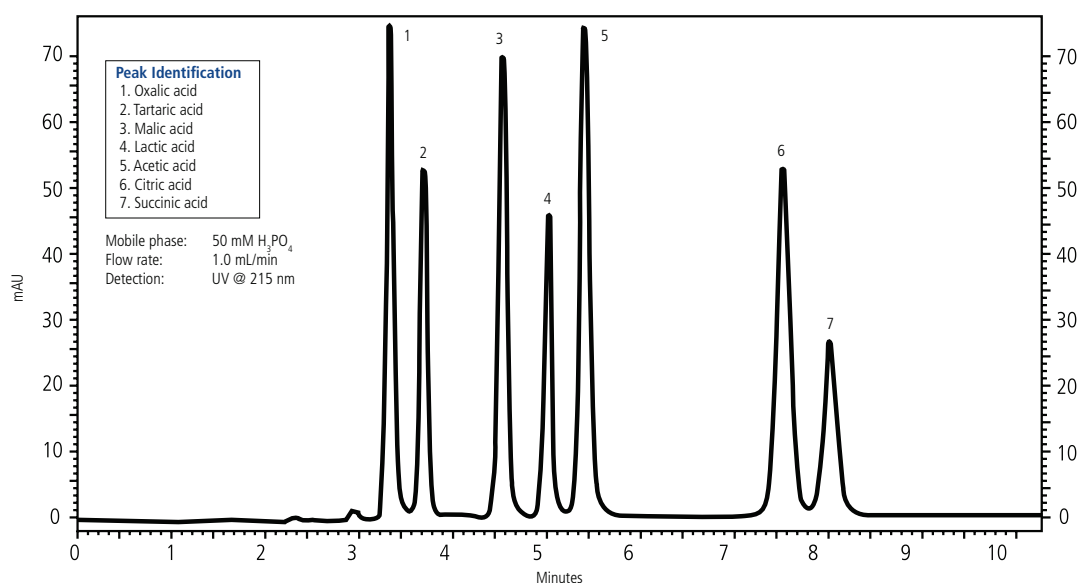


Material Characteristics

Brand	Phase*	Particle Size (µm)	Pore Size (Å)	Carbon %	End Cap	pH Range	USP Code
AquaSep	AQS (ether linked C8)	3, 5, 10	100	16	No	2-8	L7

*Preparative columns of this phase are also available. Please enquire for more details at LCA.TechSupport@perkinelmer.com

HPLC analysis of organic acids using AquaSep, 250 mm x 4.6 mm, 5 µm.

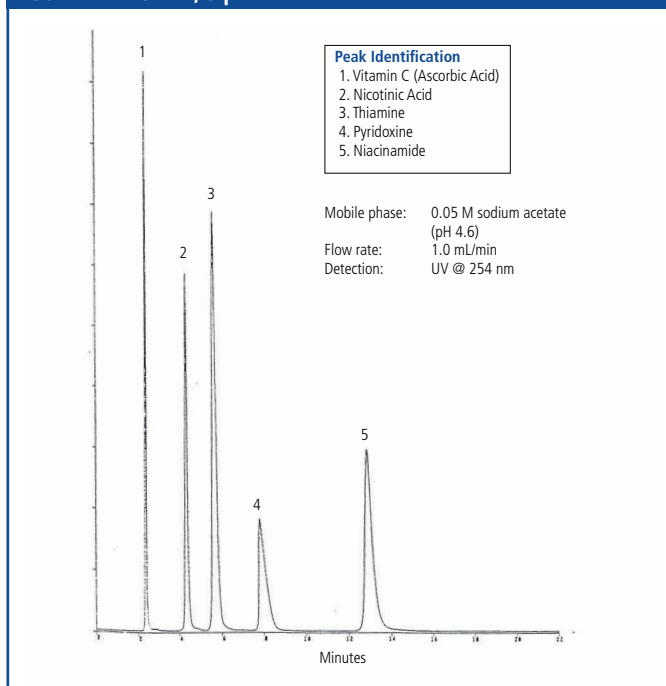


AquaSep Columns

Phase	Length (mm)	ID (mm)	Particle Size (µm)	Part No.
AquaSep	50	2.1	3	112121-AQS
AquaSep	50	2.1	5	112221-AQS
AquaSep	50	4.6	3	115121-AQS
AquaSep	100	4.6	3	125121-AQS
AquaSep	100	4.6	5	125221-AQS
AquaSep	150	2.1	3	132121-AQS
AquaSep	150	2.1	5	132221-AQS
AquaSep	150	3.9	5	13e221-AQS
AquaSep	150	4.0	3	134121-AQS
AquaSep	150	4.0	5	134221-AQS
AquaSep	150	4.6	3	135121-AQS
AquaSep	150	4.6	5	135221-AQS
AquaSep	250	4.0	5	154221-AQS
AquaSep	250	4.6	3	155121-AQS
AquaSep	250	4.6	5	155221-AQS
AquaSep Prep	50	10	5	117221-AQS
AquaSep Prep	250	10	5	157291-AQS
AquaSep Prep	250	20	5	158221-AQS
AquaSep Prep	250	20	5	158221-AQS
AquaSep Analytical Guard Cartridges (Pkg. 5)	10	3.0	5	500101-AQS
Analytical Guard Cartridge Holder with integrated coupler	—	—	—	500100

Other column dimensions, particle sizes, and guard cartridges are available.
Please enquire for more details at LCA.TechSupport@perkinelmer.com

HPLC analysis of water soluble vitamins using AquaSep, 150 mm x 4.6 mm, 5 µm.



HPLC analysis of catecholamines and related compounds using AquaSep, 100 mm x 4.6 mm, 3 µm.

