ACE C18-AR

- Combines the C18 and phenyl functionalities
- Hydrophobicity, stability and low bleed characteristics of a C18 combined with the π - π interactions provided by a phenyl phase
- Unique selectivity phase can separate mixtures that cannot be readily separated by C18 or phenyl phases alone

PHASE SPECIFICATIONS

Phase	USP Listing	Functional group	Endcapped	Particle size (µm)	Pore size (Å)	Surface area (m²/g)	Carbon Ioad (%)	pH range	100% aqueous compatibility
C18-AR	L1	Octadecyl with integral phenyl group	Yes	1.7, 2, 3, 5, 10	100	300	15.5	2-8	Yes

ACE C18-AR SHOWS ALTERNATIVE SELECTIVITY TO C18 BONDED COLUMNS



RECOMMENDED APPLICATIONS

- Analytes with π-bonding, conjugated systems and electronwithdrawing groups such as halogens, nitro groups, ketones, esters and acids
- Stereoisomers, steroids, substituted aromatics and sulphur containing compounds
- Applications where C18 does not provide adequate separation
- Applications where conventional phenyl phases provide insufficient retention, poor stability, or significant bleed



SEPARATION OF ANALGESICS



 Sample: 1) 4-acetamidophenol
 2) 4-aminobenzoic acid
 3) 4-hydroxybenzoic acid
 4) caffeine
 5) 2-acetamidophenol
 6) 3-hydroxybenzoic acid
 7) salicylamide
 8) acetanilide
 9) phenol

 10) acetylsalicylic acid
 11) benzoic acid
 12) sorbic acid
 13) salicylic acid
 14) phenylacetin
 15) salicylaldehyde

 Mobile Phase:
 A = 0.1% v/v formic acid in H₂O B = 0.1% v/v formic acid in MeCN - Gradient:
 5 - 35% B in 9 minutes, hold at 35% B until 14 minutes

 Column Dimensions:
 150 x 4.6 mm - Flow Rate:
 1.00 ml/min - Temperature:
 40°C - Detection:
 240nm