

### ACE® 100Å

- Excellentes performances en HPLC avec plus de 200 000 plateaux/mètre
- Phase de silice ultra pure et désactivée pour les bases
- Toutes les dimensions sont disponibles de la nano HPLC à la préparative
- Stable de pH 1,8 à 11
- Excellente reproductibilité
- Sélectivité optimisée
- Validation complète avec 3 certificats :

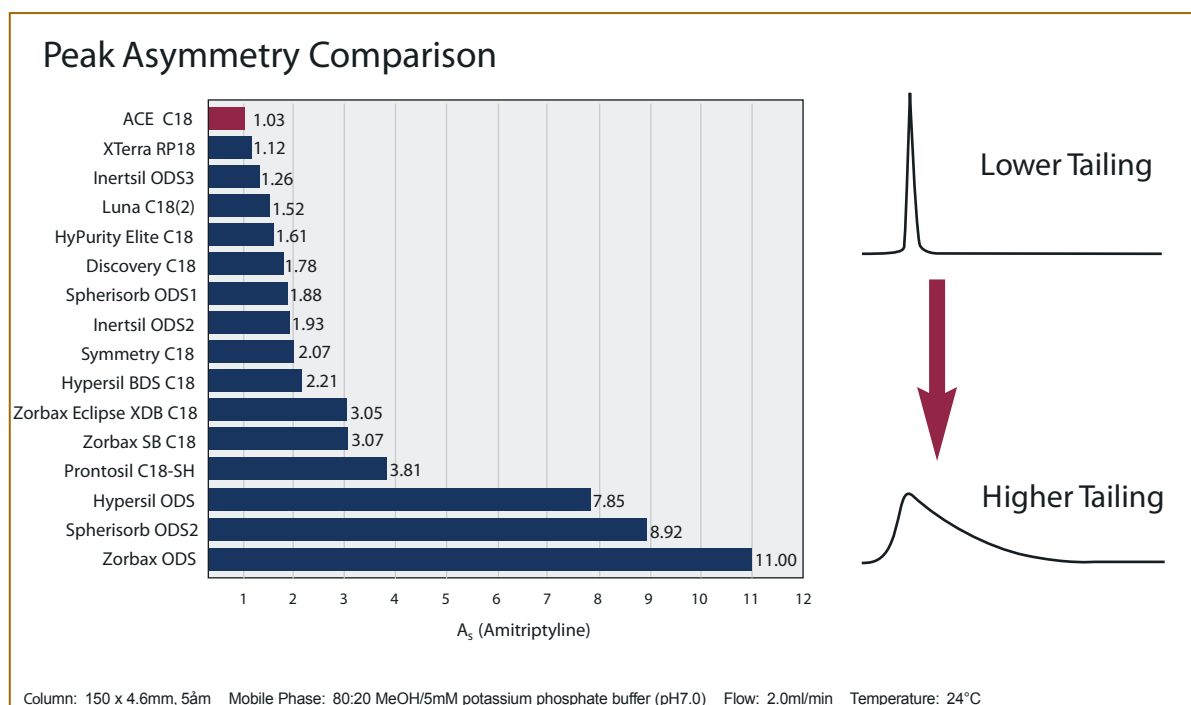
- Pour la fabrication de la silice
- Pour la validation de chaque lot
- Pour la validation de la colonne

#### Spécifications :

Phases ACE 100Å	Groupe fonctionnel	Endcapping	Taille des particules (µm)	Taille de pore (Å)	Surface spécifique (m <sup>2</sup> /g)	Taux de carbone (%)
C18	Octadecyl	Oui	3, 5, 10	100	300	15,5
C8	Octyl	Oui	3, 5, 10	100	300	9,0
C4	Butyl	Oui	3, 5, 10	100	300	5,5
CN	Cyano	Oui	3, 5, 10	100	300	5,5
Phenyl	Phenyl	Oui	3, 5, 10	100	300	9,5
AQ	Proprietary	Oui	3, 5, 10	100	300	14,0
C18-HL	Octadecyl	Oui	3, 5, 10, 15	90	400	20,0
Silice	-	-	3, 5	100	300	-

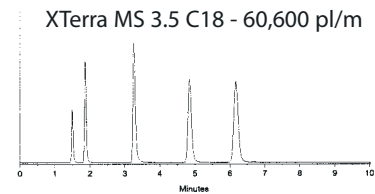
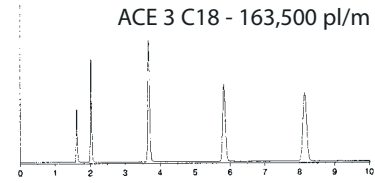
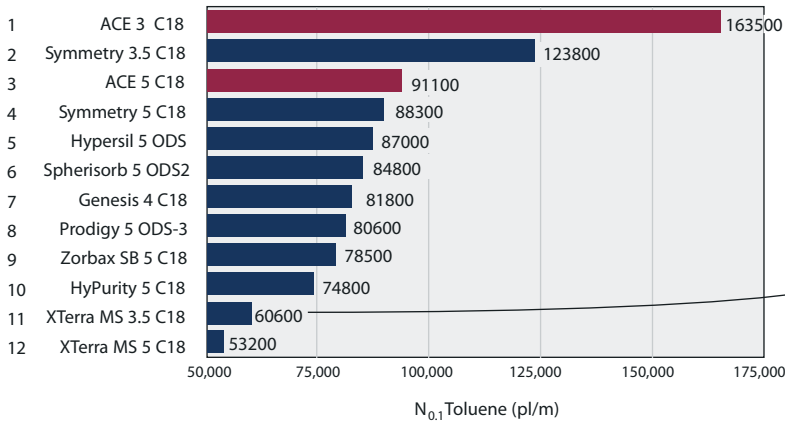
#### Comparaison entre différentes C18 en 5µm (données obtenues de l'institut NIST, USA) :

L'éluion des bases organiques (cf. amitriptyline) avec d'importantes traînées de pics est souvent associé à une forte activité des silanols. A l'inverse, l'éluion de ces composés avec une bonne symétrie des pics indique que la phase est très désactivée.



Comparaison de différentes phases C18 en 3 et 5µm (Tests de l'Université d'Aberdeen, UK) :

Neutral Molecules

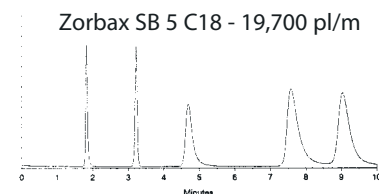
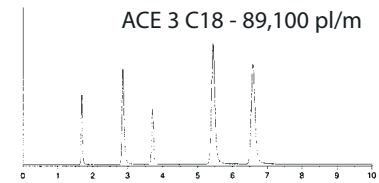
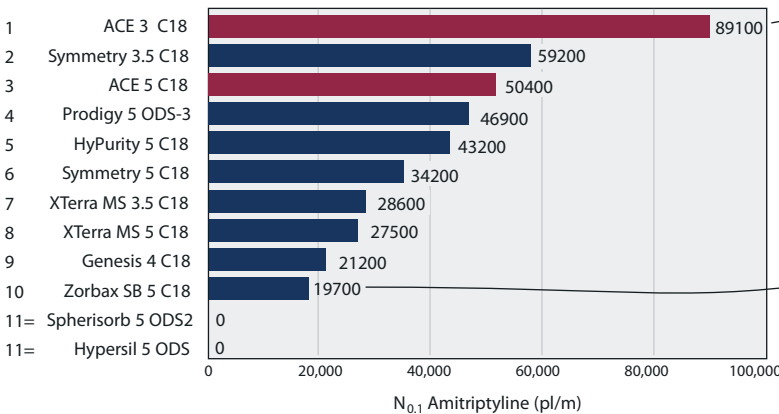


Independently Tested at The University of Aberdeen, UK

Dimensions de la colonne : 150 x 4.6mm id  
 Produits : 1) Uracil 2) Dimethyl phthalate 3) Toluene 4) Biphenyl 5) Phenanthrene  
 Mobile Phase : 80:20 MeOH/H<sub>2</sub>O Débit : 1.0 ml/min

Temperature: 22°C

Basic Molecules

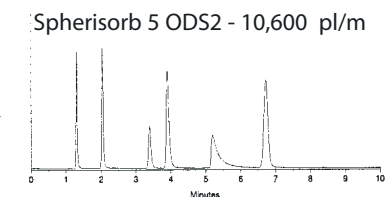
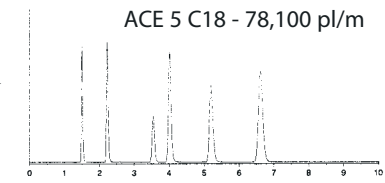
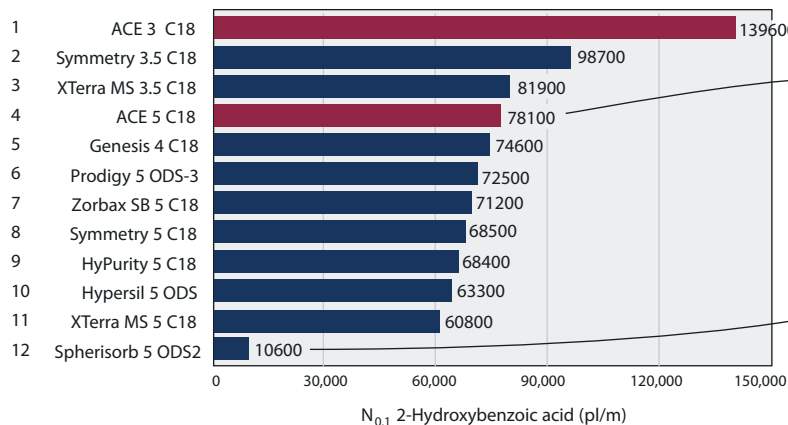


Independently Tested at The University of Aberdeen, UK

Dimensions de la colonne : 150 x 4.6mm id  
 Produits : 1) Norephedrine 2) Nortriptyline 3) Toluene 4) Imipramine 5) Amitriptyline  
 Phase Mobile : 80:20 MeOH/25mM KH<sub>2</sub>P04 (pH 6) débit : 1.0 ml/min

Temperature: 22°C

Acidic Molecules



Independently Tested at The University of Aberdeen, UK

Dimensions de la colonne : 150 x 4.6mm id  
 Produits : 1) Uracil 2) 4-Hydroxybenzoic acid 3) Acetylsalicylic acid 4) Benzoic acid 5) 2-Hydroxybenzoic acid 6) Ethyl paraben  
 Phase mobile : 35:65 MeCN/0.1% TFA in H<sub>2</sub>O Débit : 1.0 ml/min

Temperature: 22°C

## POUR COMMANDER :

ACE 3µm	Diamètre interne de 1,0 mm						Pré-colonnes (par 5)
	Longueur de la colonne (mm)						
	33 mm	50 mm	75mm	100 mm	150 mm	250 mm	
ACE C18	ACE-111-0301	ACE-111-0501	ACE-111-7501	ACE-111-1001	ACE-111-1501	-	ACE-111-0101GD
ACE C8	ACE-112-0301	ACE-112-0501	ACE-112-7501	ACE-112-1001	ACE-112-1501	-	ACE-112-0101GD
ACE C4	ACE-113-0301	ACE-113-0501	ACE-113-7501	ACE-113-1001	ACE-113-1501	-	ACE-113-0101GD
ACE CN	ACE-114-0301	ACE-114-0501	ACE-114-7501	ACE-114-1001	ACE-114-1501	-	ACE-114-0101GD
ACE Phenyl	ACE-115-0301	ACE-115-0501	ACE-115-7501	ACE-115-1001	ACE-115-1501	-	ACE-115-0101GD
ACE AQ	ACE-116-0301	ACE-116-0501	ACE-116-7501	ACE-116-1001	ACE-116-1501	-	ACE-116-0101GD
ACE Silice	ACE-117-0301	ACE-117-0501	ACE-117-7501	ACE-117-1001	ACE-117-1501	-	ACE-117-0101GD
ACE C18-HL	ACE-311-0301	ACE-311-0501	ACE-311-7501	ACE-311-1001	ACE-311-1501	-	ACE-311-0101GD
<b>5µm</b>							
ACE C18	ACE-121-0301	ACE-121-0501	ACE-121-7501	ACE-121-1001	ACE-121-1501	ACE-121-2501	ACE-121-0101GD
ACE C8	ACE-122-0301	ACE-122-0501	ACE-122-7501	ACE-122-1001	ACE-122-1501	ACE-122-2501	ACE-122-0101GD
ACE C4	ACE-123-0301	ACE-123-0501	ACE-123-7501	ACE-123-1001	ACE-123-1501	ACE-123-2501	ACE-123-0101GD
ACE CN	ACE-124-0301	ACE-124-0501	ACE-124-7501	ACE-124-1001	ACE-124-1501	ACE-124-2501	ACE-124-0101GD
ACE Phenyl	ACE-125-0301	ACE-125-0501	ACE-125-7501	ACE-125-1001	ACE-125-1501	ACE-125-2501	ACE-125-0101GD
ACE AQ	ACE-126-0301	ACE-126-0501	ACE-126-7501	ACE-126-1001	ACE-126-1501	ACE-126-2501	ACE-126-0101GD
ACE Silice	ACE-127-0301	ACE-127-0501	ACE-127-7501	ACE-127-1001	ACE-127-1501	ACE-127-2501	ACE-127-0101GD
ACE C18-HL	ACE-321-0301	ACE-321-0501	ACE-321-7501	ACE-321-1001	ACE-321-1501	ACE-321-2501	ACE-321-0101GD

ACE 3µm	Diamètre interne de 2,1 mm						Pré-colonnes (par 5)
	Longueur de la colonne (mm)						
	33 mm	50 mm	75mm	100 mm	150 mm	250 mm	
ACE C18	ACE-111-0302	ACE-111-0502	ACE-111-7502	ACE-111-1002	ACE-111-1502	-	ACE-111-0102GD
ACE C8	ACE-112-0302	ACE-112-0502	ACE-112-7502	ACE-112-1002	ACE-112-1502	-	ACE-112-0102GD
ACE C4	ACE-113-0302	ACE-113-0502	ACE-113-7502	ACE-113-1002	ACE-113-1502	-	ACE-113-0102GD
ACE CN	ACE-114-0302	ACE-114-0502	ACE-114-7502	ACE-114-1002	ACE-114-1502	-	ACE-114-0102GD
ACE Phenyl	ACE-115-0302	ACE-115-0502	ACE-115-7502	ACE-115-1002	ACE-115-1502	-	ACE-115-0102GD
ACE AQ	ACE-116-0302	ACE-116-0502	ACE-116-7502	ACE-116-1002	ACE-116-1502	-	ACE-116-0102GD
ACE Silice	ACE-117-0302	ACE-117-0502	ACE-117-7502	ACE-117-1002	ACE-117-1502	-	ACE-117-0102GD
ACE C18-HL	ACE-311-0302	ACE-311-0502	ACE-311-7502	ACE-311-1002	ACE-311-1502	-	ACE-311-0102GD
<b>5µm</b>							
ACE C18	ACE-121-0302	ACE-121-0502	ACE-121-7502	ACE-121-1002	ACE-121-1502	ACE-121-2502	ACE-121-0102GD
ACE C8	ACE-122-0302	ACE-122-0502	ACE-122-7502	ACE-122-1002	ACE-122-1502	ACE-122-2502	ACE-122-0102GD
ACE C4	ACE-123-0302	ACE-123-0502	ACE-123-7502	ACE-123-1002	ACE-123-1502	ACE-123-2502	ACE-123-0102GD
ACE CN	ACE-124-0302	ACE-124-0502	ACE-124-7502	ACE-124-1002	ACE-124-1502	ACE-124-2502	ACE-124-0102GD
ACE Phenyl	ACE-125-0302	ACE-125-0502	ACE-125-7502	ACE-125-1002	ACE-125-1502	ACE-125-2502	ACE-125-0102GD
ACE AQ	ACE-126-0302	ACE-126-0502	ACE-126-7502	ACE-126-1002	ACE-126-1502	ACE-126-2502	ACE-126-0102GD
ACE Silice	ACE-127-0302	ACE-127-0502	ACE-127-7502	ACE-127-1002	ACE-127-1502	ACE-127-2502	ACE-127-0102GD
ACE C18-HL	ACE-321-0302	ACE-321-0502	ACE-321-7502	ACE-321-1002	ACE-321-1502	ACE-321-2502	ACE-321-0102GD

ACE 3µm	Diamètre interne de 4,6 mm						Pré colonnes (par 5)
	Longueur de la colonne (mm)						
	33 mm	50 mm	75mm	100 mm	150 mm	250 mm	
ACE C18	ACE-111-0346	ACE-111-0546	ACE-111-7546	ACE-111-1046	ACE-111-1546	-	ACE-111-0103GD
ACE C8	ACE-112-0346	ACE-112-0546	ACE-112-7546	ACE-112-1046	ACE-112-1546	-	ACE-112-0103GD
ACE C4	ACE-113-0346	ACE-113-0546	ACE-113-7546	ACE-113-1046	ACE-113-1546	-	ACE-113-0103GD
ACE CN	ACE-114-0346	ACE-114-0546	ACE-114-7546	ACE-114-1046	ACE-114-1546	-	ACE-114-0103GD
ACE Phenyl	ACE-115-0346	ACE-115-0546	ACE-115-7546	ACE-115-1046	ACE-115-1546	-	ACE-115-0103GD
ACE AQ	ACE-116-0346	ACE-116-0546	ACE-116-7546	ACE-116-1046	ACE-116-1546	-	ACE-116-0103GD
ACE Silice	ACE-117-0346	ACE-117-0546	ACE-117-7546	ACE-117-1046	ACE-117-1546	-	ACE-117-0103GD
ACE C18-HL	ACE-311-0346	ACE-311-0546	ACE-311-7546	ACE-311-1046	ACE-311-1546	-	ACE-311-0103GD
<b>5µm</b>							
ACE C18	ACE-121-0346	ACE-121-0546	ACE-121-7546	ACE-121-1046	ACE-121-1546	ACE-121-2546	ACE-121-0103GD
ACE C8	ACE-122-0346	ACE-122-0546	ACE-122-7546	ACE-122-1046	ACE-122-1546	ACE-122-2546	ACE-122-0103GD
ACE C4	ACE-123-0346	ACE-123-0546	ACE-123-7546	ACE-123-1046	ACE-123-1546	ACE-123-2546	ACE-123-0103GD
ACE CN	ACE-124-0346	ACE-124-0546	ACE-124-7546	ACE-124-1046	ACE-124-1546	ACE-124-2546	ACE-124-0103GD
ACE Phenyl	ACE-125-0346	ACE-125-0546	ACE-125-7546	ACE-125-1046	ACE-125-1546	ACE-125-2546	ACE-125-0103GD
ACE AQ	ACE-126-0346	ACE-126-0546	ACE-126-7546	ACE-126-1046	ACE-126-1546	ACE-126-2546	ACE-126-0103GD
ACE Silice	ACE-127-0346	ACE-127-0546	ACE-127-7546	ACE-127-1046	ACE-127-1546	ACE-127-2546	ACE-127-0103GD
ACE C18-HL	ACE-321-0346	ACE-321-0546	ACE-321-7546	ACE-321-1046	ACE-321-1546	ACE-321-2546	ACE-321-0103GD

### ACE® 300Å

- Silice poreuse 300Å ultra pure
- Large gamme de greffage C18, C8, C4, CN et Phenyl
- Particules de 3µm, 5µm et 10µm
- Stabilité chimique exceptionnelle
- Excellente reproductibilité

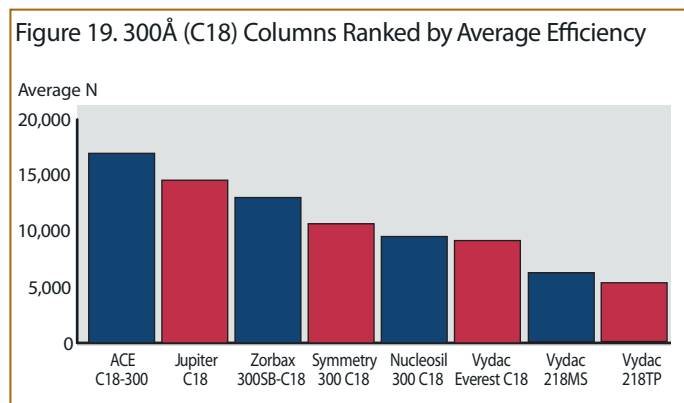
#### Spécifications :

Phases ACE 300Å	Groupe fonctionnel	Endcapping	Taille des particules (µm)	Taille de pore (Å)	Surface spécifique (m <sup>2</sup> /g)	Taux de carbone (%)
C18-300	Octadecyl	Oui	3, 5, 10	300	100	9,0
C8-300	Octyl	Oui	3, 5, 10	300	100	5,0
C4-300	Butyl	Oui	3, 5, 10	300	100	2,6
CN-300	Cyano	Oui	3, 5, 10	300	100	2,6
Ph-300	Phenyl	Oui	3, 5, 10	300	100	5,3

#### Comparaison de différentes phases C18 en 300Å par rapport au nombre de plateaux (N):

	TEST 1	TEST 2	TEST 3	MOYENNE	
ACE C18-300	23 400	14 400	14 000	17 300	<b>Test 1 : Molécule neutre – Toluène</b> 80:20 MeOH/H <sub>2</sub> O, 1,0 mL/min
Jupiter C18	19 700	12 400	12 400	14 800	
Zorbax 300SB-C18	18 900	14 400	6 600	13 300	<b>Test 2 : Molécule Basique 1 – Pyridine</b> 60:40 MeOH/H <sub>2</sub> O, 1,0 mL/min
Symmetry 300 C18	17 500	9 000	6 700	11 000	
Nucleosil 300 C18	20 300	6 700	400	9 100	<b>Test 3 : Molécule Basique 2 - Amitriptyline</b> 80:20 MeOH/25mM KH <sub>2</sub> PO <sub>4</sub> (pH=6,0), 1,0mL/min
Vydac Everest C18	20 000	5 900	800	8 900	
Vydac 218MS	14 600	1 300	1 400	5 800	
Vydac 218TP	14 200	1 700	800	5 600	

#### Classement des colonnes par la moyenne des plateaux (N) :



Par la moyenne du nombre de plateaux théoriques obtenue dans les tests 1, 2 et 3, le classement des colonnes donne une idée sur la qualité du remplissage, la qualité de la phase et si elle est inerte.

#### Tableau des débits et de la sensibilité :

Diamètre interne de la colonne (mm)	Débit standard (µL/min)	Augmentation de la sensibilité
4,6	1000	1
1,0	40	21
0,5	10	85
0,3	3	235
0,1	0,5	2100
0,075	0,3	3760

## POUR COMMANDER LES DIMENSIONS ANALYTIQUES :

ACE 3µm	Diamètre interne de 4,6 mm Longueur de la colonne (mm)						Pré-colonnes (par 5)
	33 mm	50 mm	75mm	100 mm	150 mm	250 mm	
C18-300	ACE-211-0346	ACE-211-0546	ACE-211-7546	ACE-211-1046	ACE-211-1546	-	ACE-211-0103GD
C8-300	ACE-212-0346	ACE-212-0546	ACE-212-7546	ACE-212-1046	ACE-212-1546	-	ACE-212-0103GD
C4-300	ACE-213-0346	ACE-213-0546	ACE-213-7546	ACE-213-1046	ACE-213-1546	-	ACE-213-0103GD
CN-300	ACE-214-0346	ACE-214-0546	ACE-214-7546	ACE-214-1046	ACE-214-1546	-	ACE-214-0103GD
Ph-300	ACE-215-0346	ACE-215-0546	ACE-215-7546	ACE-215-1046	ACE-215-1546	-	ACE-215-0103GD
<b>5µm</b>							
C18-300	ACE-221-0346	ACE-221-0546	ACE-221-7546	ACE-221-1046	ACE-221-1546	ACE-221-2546	ACE-221-0103GD
C8-300	ACE-222-0346	ACE-222-0546	ACE-222-7546	ACE-222-1046	ACE-222-1546	ACE-222-2546	ACE-222-0103GD
C4-300	ACE-223-0346	ACE-223-0546	ACE-223-7546	ACE-223-1046	ACE-223-1546	ACE-223-2546	ACE-223-0103GD
CN-300	ACE-224-0346	ACE-224-0546	ACE-224-7546	ACE-224-1046	ACE-224-1546	ACE-224-2546	ACE-224-0103GD
Ph-300	ACE-225-0346	ACE-225-0546	ACE-225-7546	ACE-225-1046	ACE-225-1546	ACE-225-2546	ACE-225-0103GD

## POUR COMMANDER LES DIMENSIONS CAPILLAIRES ET NANO :

Diamètre interne de la colonne		Longueur de la colonne (mm)					Pré-colonnes (par 5)
µm	mm	30	50	100	150	250	
75	0,075	sur demande	sur demande	X-1000075	X-1500075	X-2500075	-
100	0,10	sur demande	sur demande	X-10001	X-15001	X-25001	-
300	0,30	X-03003	X-05003	X-10003	X-15003	X-25003	X-005003GD
500	0,50	X-03005	X-05005	X-10005	X-15005	X-25005	X-005005GD

## REEMPLACER LE X PAR LA PHASE DE VOTRE CHOIX :

### ACE 100Å :

Particules	Phases						
	C18	C8	C4	CN	Phenyl	AQ	C18-HL
3µm	ACE-111	ACE-112	ACE-113	ACE-114	ACE-115	ACE-116	ACE-311
5µm	ACE-121	ACE-122	ACE-123	ACE-124	ACE-125	ACE-126	ACE-321
10µm	ACE-131	ACE-132	ACE-133	ACE-134	ACE-135	ACE-136	ACE-331

### ACE 300Å :

Particules	Phases				
	C18-300	C8-300	C4-300	CN-300	Phenyl-300
3µm	ACE-211	ACE-212	ACE-213	ACE-214	ACE-215
5µm	ACE-221	ACE-222	ACE-223	ACE-224	ACE-225
10µm	ACE-231	ACE-232	ACE-233	ACE-234	ACE-235

Pour toutes autres dimensions ou références n'hésitez pas à nous contacter.



If ACE does not outperform your existing column (of equivalent phase, particle size and dimensions), send in your comparative data within 60 days and keep the ACE column FREE OF CHARGE.

## Guides Des Applications

PLUSIEURS GUIDES D'APPLICATIONS SONT DISPONIBLES CHEZ A.I.T :



- A Guide to HPLC and LC-MS Buffer Selection
- HPLC Troubleshooting Guide
- A Guide to the Analysis and Purification of Proteins and Peptides by Reversed-Phase HPLC

Pour recevoir un des guides, contactez nous au 01 34 93 10 18, [aitfrance@club-internet.fr](mailto:aitfrance@club-internet.fr)



QUATRIÈME BIENTÔT DISPONIBLE

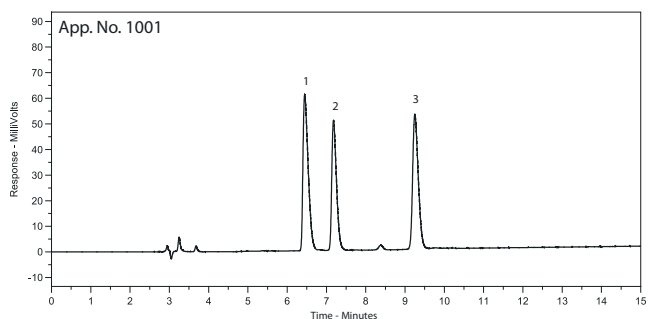
### Angiotensins

#### Conditions

Column: ACE 5 C18-300, 250 x 4.6mm  
 Part Number: ACE-221-2546  
 Mobile Phase: A. 0.1% TFA in H<sub>2</sub>O  
 B. 80:20 MeCN/0.1% TFA in H<sub>2</sub>O  
 Flow Rate: 1.0ml/min  
 Gradient: T (mins) %A %B  
 0 75 25  
 15 60 40  
 Temperature: Ambient  
 Detection: UV, 215nm

#### Compounds

1. Angiotensin II
2. Angiotensin III
3. Angiotensin I



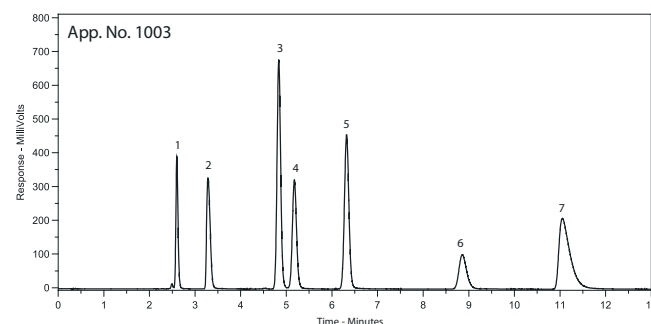
### Antihistamines and Expectorants

#### Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: 50:50 MeOH/50mM KH<sub>2</sub>PO<sub>4</sub> (pH 3.0)  
 Flow Rate: 1.0ml/min  
 Temperature: 22°C  
 Detection: UV, 220nm

#### Compounds

1. Maleic acid
2. Norephedrine
3. Salicylamide
4. Guaifenesin
5. Guaiaacol
6. Chlorpheniramine maleate
7. Dextromethorphan



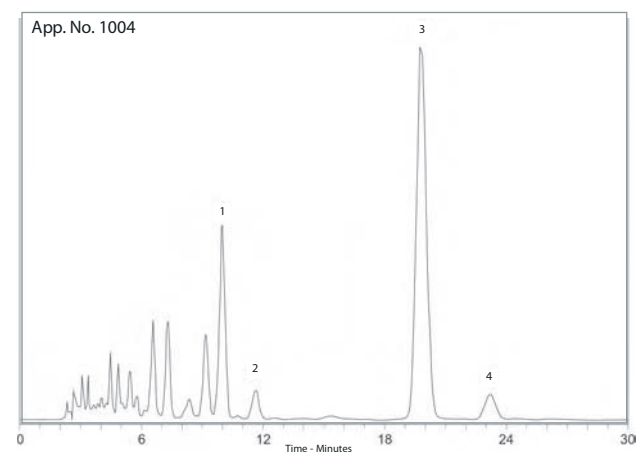
### Avenacins

#### Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: 70:30 MeOH/H<sub>2</sub>O  
 Flow Rate: 1.0ml/min  
 Temperature: Ambient  
 Detection: UV, 225nm  
 Sample: Partially purified extract from oat root

#### Compounds

1. Avenacin A-2
2. Avenacin B-2
3. Avenacin A-1
4. Avenacin B-1



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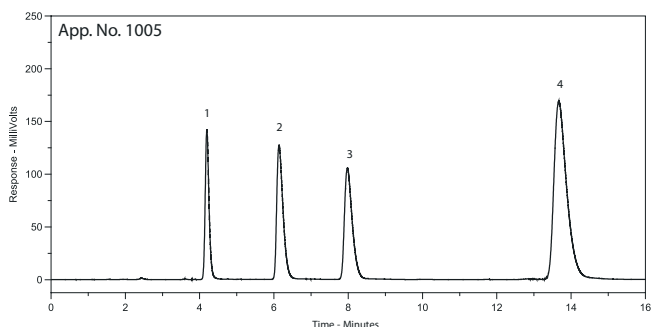
### Beta Blockers

#### Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: 65:35 MeOH/50mM 1-methylpiperidine (pH 11)  
 Flow Rate: 1.0ml/min  
 Temperature: Ambient  
 Detection: UV, 215nm

#### Compounds

1. Pindolol
2. Metoprolol
3. Oxprenolol
4. Propranolol



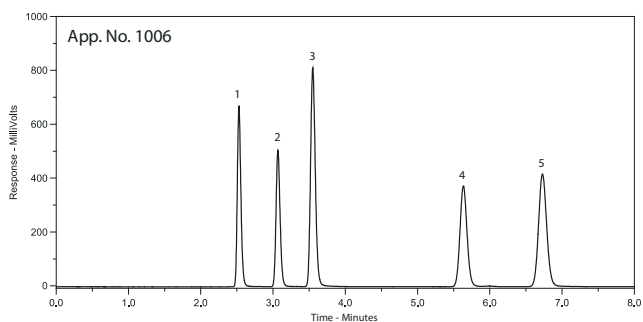
Cold Medicine Components

Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: 50:50 MeOH/50mM KH<sub>2</sub>PO<sub>4</sub> (pH 3.0)  
 Flow Rate: 1.0ml/min  
 Temperature: 22°C  
 Detection: UV, 220nm

Compounds

1. Vitamin C
2. Acetaminophen
3. Caffeine
4. Aspirin
5. Ethenzamide



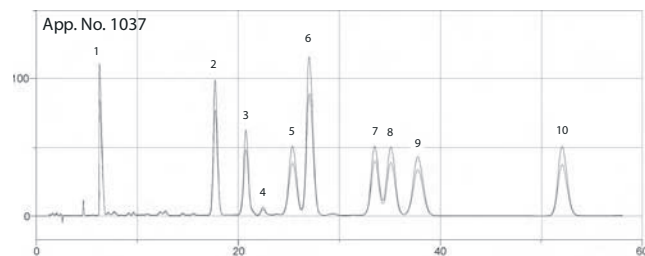
Cyclosporin Mixture

Conditions

Column: ACE 5 C18, 250 x 3.0mm  
 Part Number: ACE-121-2503  
 Mobile Phase: 46:51:3:0.1 H<sub>2</sub>O/MeCN/MTBE/H<sub>3</sub>PO<sub>4</sub>  
 Flow Rate: 0.8ml/min  
 Temperature: 80°C  
 Detection: UV, 210nm

Compounds

1. Isocyclosporin A
2. Cyclosporin C
3. Cyclosporin B
4. Cyclosporin L
5. Cyclosporin U
6. Cyclosporin A
7. Dihydrocyclosporin A
8. Cyclosporin G
9. Cyclosporin D
10. Cyclosporin E



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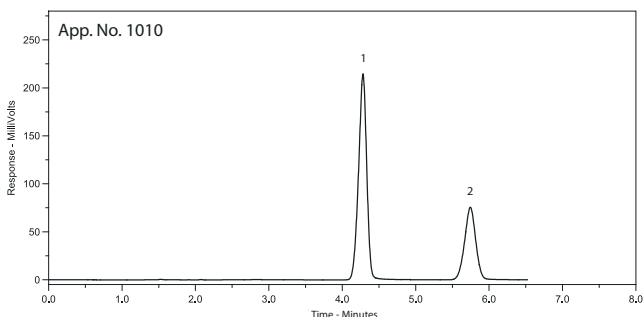
Hippuric Acid

Conditions

Column: ACE 5 C18, 150 x 4.6mm  
 Part Number: ACE-121-1546  
 Mobile Phase: 85:15 10mM KH<sub>2</sub>PO<sub>4</sub> (pH 3.5)/MeCN  
 Flow Rate: 1.0ml/min  
 Temperature: Ambient  
 Detection: UV, 254nm

Compounds

1. Hippuric acid
2. 2-Methylhippuric acid



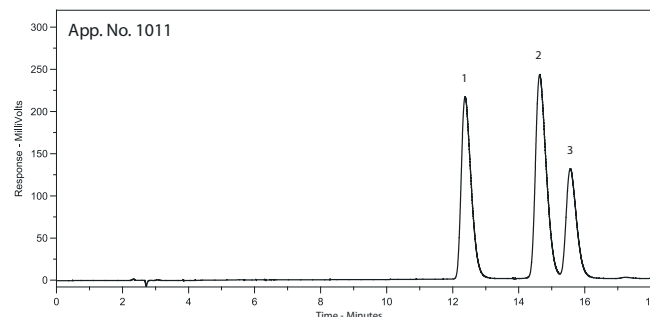
Insulins

Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: A. 29:71 MeCN/H<sub>2</sub>O + 0.1% TFA  
 B. 32:68 MeCN/H<sub>2</sub>O + 0.1% TFA  
 Flow Rate: 1.0ml/min  
 Gradient: T(mins) %A %B  
 0 90 10  
 16 10 90  
 Temperature: Ambient  
 Detection: UV, 215nm

Compounds

1. Bovine insulin
2. Human insulin
3. Porcine insulin





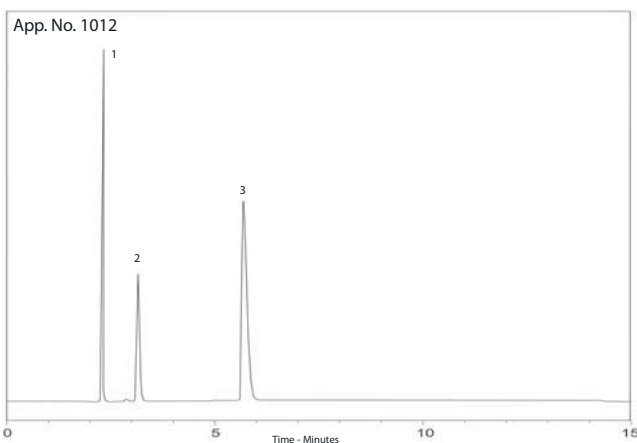
### Local Anaesthetics

#### Conditions

Column: ACE 5 AQ, 250 x 4.6mm  
 Part Number: ACE-126-2546  
 Mobile Phase: 21:79:0.1 MeCN/H<sub>2</sub>O/2.5M H<sub>2</sub>SO<sub>4</sub>  
 Flow Rate: 1.5 ml/min  
 Detection: UV

#### Compounds

1. Procaine
2. Lignocaine
3. Cocaine



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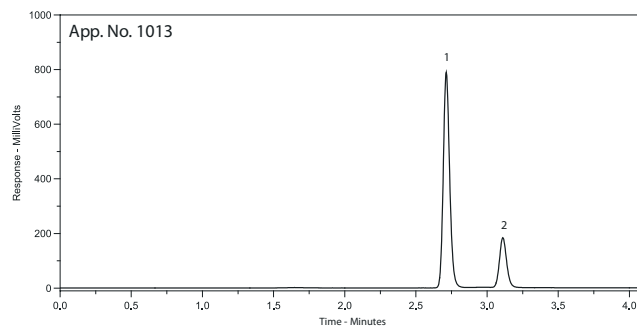
### Maleic and Fumaric Acids

#### Conditions

Column: ACE 5 AQ, 250 x 4.6mm  
 Part Number: ACE-126-2546  
 Mobile Phase: 50mM KH<sub>2</sub>PO<sub>4</sub>(pH 7.0)  
 Flow Rate: 1.0ml/min  
 Temperature: Ambient  
 Detection: UV, 210nm

#### Compounds

1. Fumaric acid
2. Maleic acid



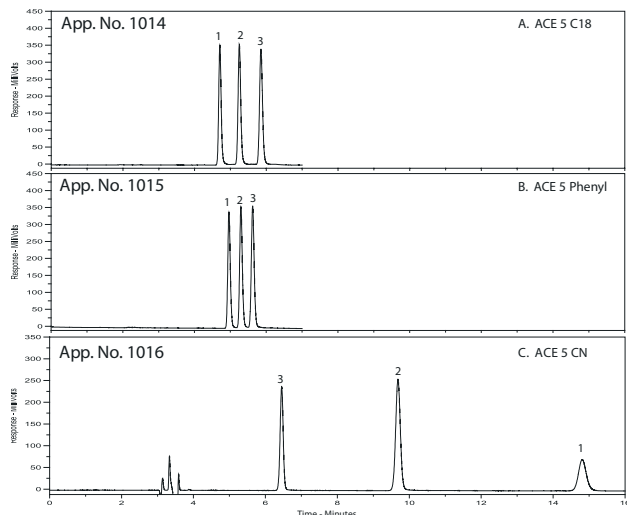
### Nitroanilines

#### Conditions

Columns: A. ACE 5 C18, B. ACE 5 Phenyl, C. ACE 5 CN  
 Column Dimensions: 250 x 4.6mm  
 Mobile Phase: Columns A & B: 50:50 MeCN/50mM K<sub>2</sub>HPO<sub>4</sub> (pH 3.15)  
 Column C: 90:10 Heptane/EtOAc  
 Flow Rate: 1.0ml/min  
 Temperature: Ambient  
 Detection: UV, 254nm

#### Compounds

1. p-Nitroaniline
2. m-Nitroaniline
3. o-Nitroaniline



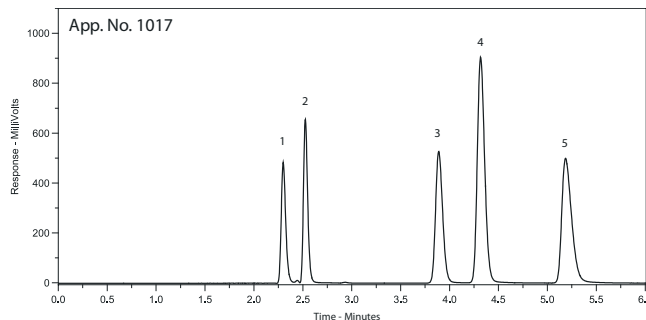
### Organic Acids

#### Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: 30:70 MeOH/50mM KH<sub>2</sub>PO<sub>4</sub> (pH 5.7)  
 Flow Rate: 1.0ml/min  
 Temperature: 22°C  
 Detection: UV, 220nm

#### Compounds

1. L-Ascorbic acid
2. Maleic acid
3. Acetylsalicylic acid
4. Benzoic acid
5. Salicylic acid



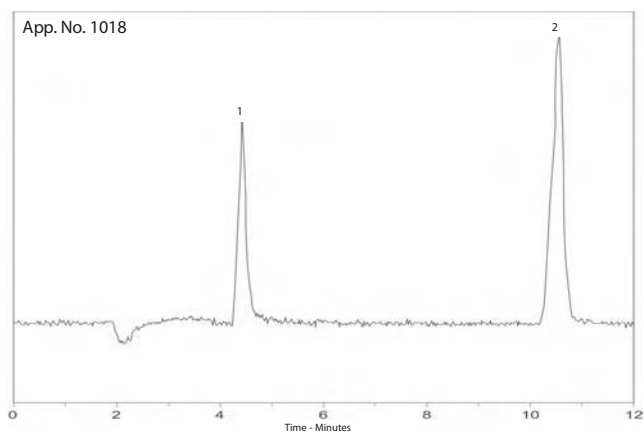
Organotin Compounds

Conditions

Column: ACE 3 C18, 150 x 2.1mm  
 Part Number: ACE-111-1502  
 Mobile Phase: 65:23:12:0.05  
 MeCN/H<sub>2</sub>O/CH<sub>3</sub>CO<sub>2</sub>H/TEA  
 Flow Rate: 0.2ml/min  
 Detection: ICP-MS

Compounds

1. Dibutyltin
2. Tributyltin



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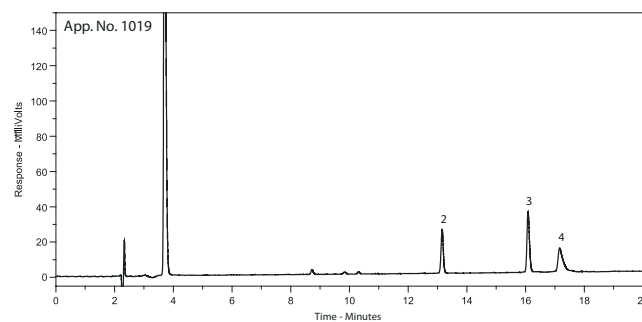
Peptide Test Mix

Conditions

Column: ACE 5 C18-300, 250 x 4.6mm  
 Part Number: ACE-221-2546  
 Mobile Phase: A. 0.1% TFA in H<sub>2</sub>O  
 B. 0.1% TFA in MeCN  
 Flow Rate: 1.0ml/min  
 Gradient: T(mins) %A %B  
 0 90 10  
 25 60 40  
 Temperature: Ambient  
 Detection: UV, 220nm

Compounds

1. Gly-Tyr
2. Oxytocin
3. Angiotensin II
4. Neurotensin



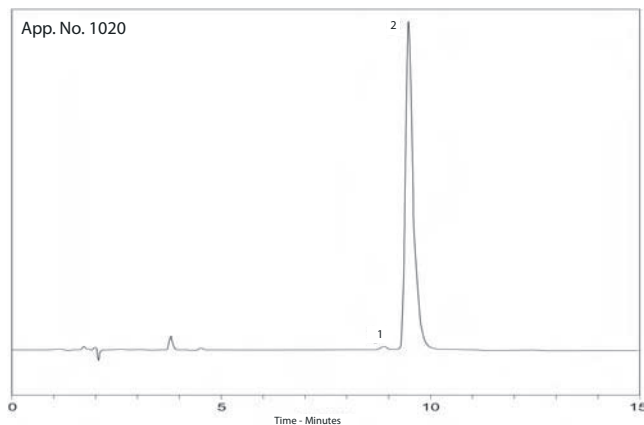
Pilocarpine

Conditions

Column: ACE 5 C18, 150 x 4.6mm  
 Part Number: ACE-121-1546  
 Mobile Phase: 15:85 MeCN/2mM  
 tetrabutylammonium  
 dihydrogen phosphate  
 Flow Rate: 1.0ml/min  
 Detection: UV, 254nm

Compounds

1. Isopilocarpine
2. Pilocarpine



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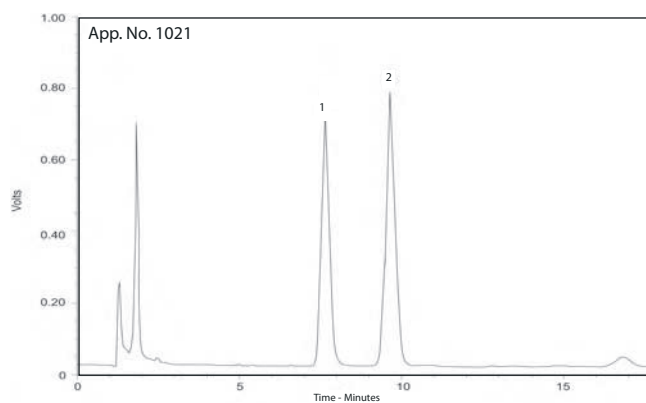
Polyamines

Conditions

Column: ACE 5 C18, 150 x 4.6mm  
 Part Number: ACE-121-1546  
 Mobile Phase: 90:10 MeOH/TRIS buffer  
 (pH 7.0)  
 Flow Rate: 1.2ml/min  
 Detection: Fluorescence - λ<sub>ex</sub> 340nm  
 λ<sub>em</sub> 450nm

Compounds

1. Putrescine
2. Cadaverine  
(as OPA derivatives)

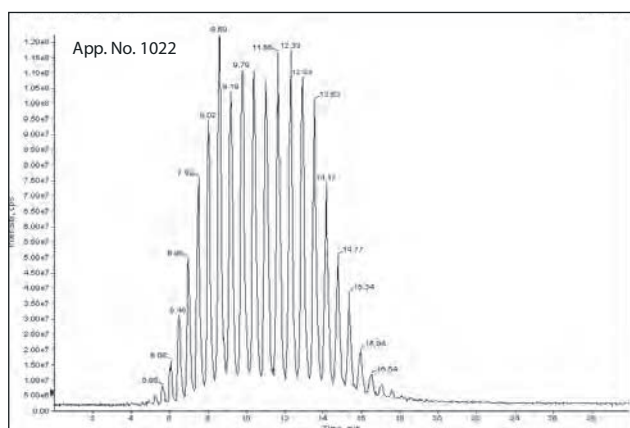


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### Polyethylene Glycol 1000

#### Conditions

Column: ACE 3 C8, 150 x 4.6mm  
 Part Number: ACE-112-1546  
 Mobile Phase: A. 0.1% HCO<sub>2</sub>H in H<sub>2</sub>O B. MeOH  
 Flow Rate: 1.0ml/min  
 Gradient: T(mins) 0 45 50 60  
           %A 50 15 50 50  
           %B 50 85 50 50  
 Detection: APCI (negative ion)



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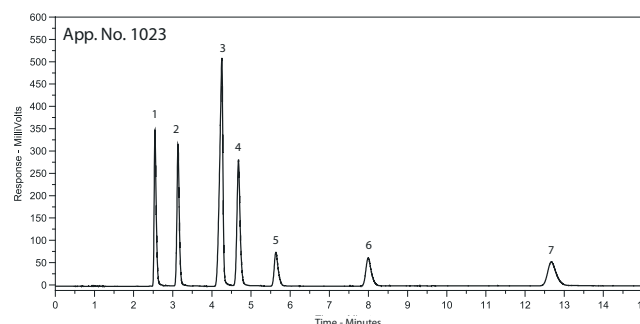
### Preservatives

#### Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: 40:60 MeCN/50mM KH<sub>2</sub>PO<sub>4</sub> (pH 4.4)  
 Flow Rate: 1.0ml/min  
 Temperature: Ambient  
 Detection: UV, 230nm

#### Compounds

1. Phthalic acid
2. p-Hydroxybenzoic acid
3. Benzoic acid
4. Sorbic acid
5. Methyl paraben
6. Ethyl paraben
7. Propyl paraben



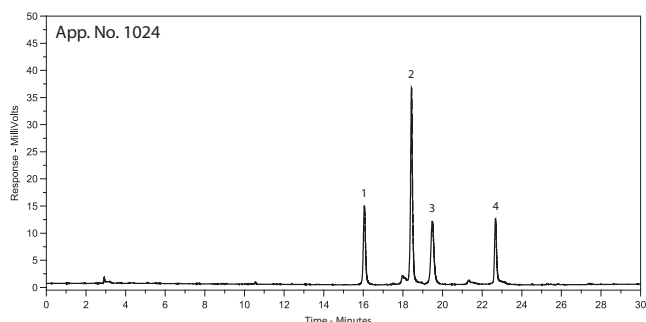
### Protein Test Mix

#### Conditions

Column: ACE 5 C18-300, 250 x 4.6mm  
 Part Number: ACE-221-2546  
 Mobile Phase: A. 0.1% TFA in H<sub>2</sub>O  
                   B. 0.1% TFA in MeCN  
 Flow Rate: 1.0ml/min  
 Gradient: T(mins) %A %B  
           0 95 5  
           30 30 70  
 Temperature: Ambient  
 Detection: UV, 280nm

#### Compounds

1. Ribonuclease A
2. Cytochrome C
3. Holo-transferrin
4. Apomyoglobin



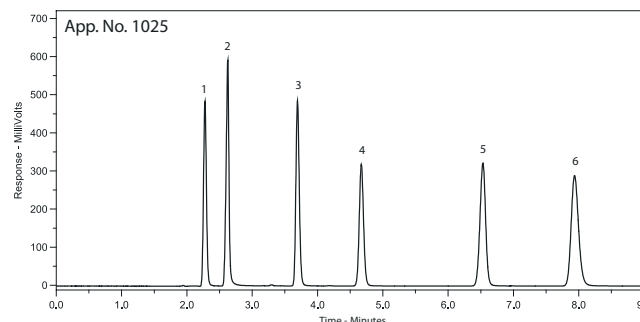
### Selectivity Test Mix

#### Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: 60:40 MeCN/50mM KH<sub>2</sub>PO<sub>4</sub> (pH 3.2)  
 Flow Rate: 1.0ml/min  
 Temperature: Ambient  
 Detection: UV, 254nm

#### Compounds

1. Uracil
2. Pyridine
3. Phenol
4. Dimethyl phthalate
5. N,N-Dimethylaniline
6. 4-Butylbenzoic acid



Applications

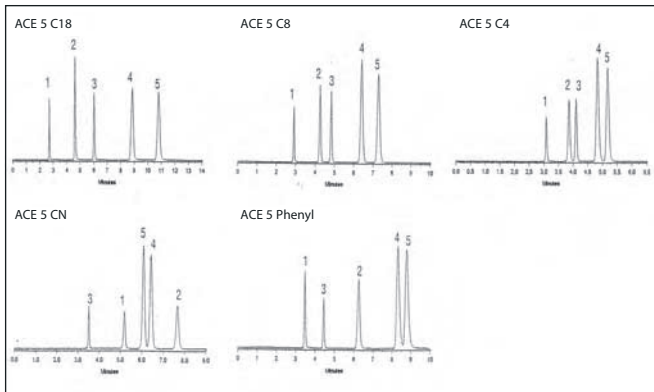
Tricyclic Antidepressants

Conditions

Column: ACE 5 C18, ACE 5 C8, ACE 5 C4, ACE 5 CN and ACE 5 Phenyl  
 Column Dimensions: 250 x 4.6mm  
 Mobile Phase: 80:20 MeOH/25mM KH<sub>2</sub>PO<sub>4</sub> (pH 6.0)  
 Flow Rate: 1.0ml/min  
 Temperature: 22°C  
 Detection: UV, 215nm

Compounds

1. Norephedrine
2. Nortriptyline
3. Toluene
4. Imipramine
5. Amitriptyline



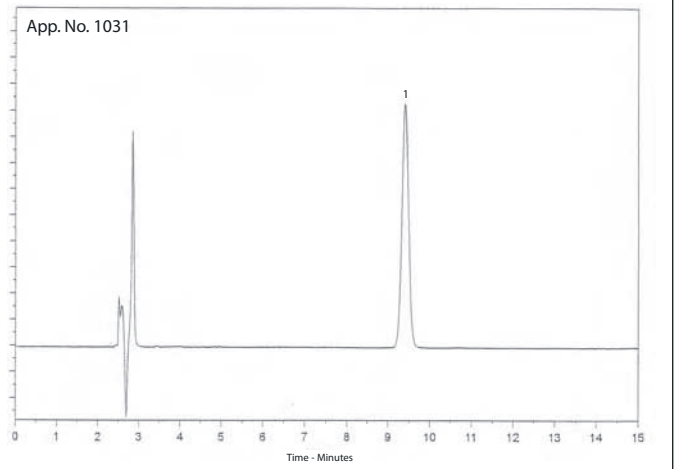
Trifluralin

Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: 85:15 MeOH/H<sub>2</sub>O  
 Flow Rate: 1.0ml/min  
 Temperature: Ambient  
 Detection: UV, 254nm

Compounds

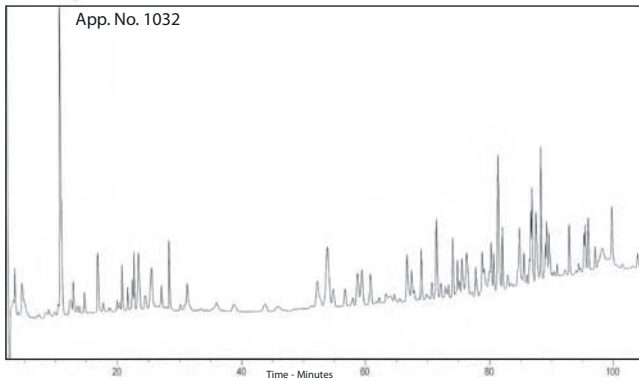
1. Trifluralin



Tryptic Digest of BSA

Conditions

Column: ACE 5 C18-300, 150 x 4.6mm  
 Part Number: ACE-221-1546  
 Mobile Phase: A. 1% TFA in H<sub>2</sub>O  
                   B. 50:50 1% TFA in MeCN/H<sub>2</sub>O  
 Flow Rate: 1.0ml/min  
 Gradient:  
 T(mins) 0 5 25 45 75 95 115 120  
 %A 96 96 80 80 60 35 30 96  
 %B 4 4 20 20 40 65 70 4  
 Temperature: Ambient  
 Detection: UV, 214nm



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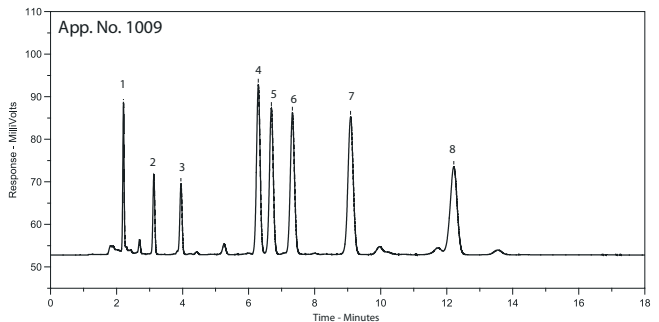
Vitamins – Fat Soluble

Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: MeOH  
 Flow Rate: 1.5ml/min  
 Temperature: 30°C  
 Detection: UV, 280nm

Compounds

1. Vitamin K3
2. Vitamin A
3. Vitamin A acetate
4. Vitamin D2
5. Vitamin D3
6. Vitamin E
7. Vitamin E acetate
8. Vitamin K1



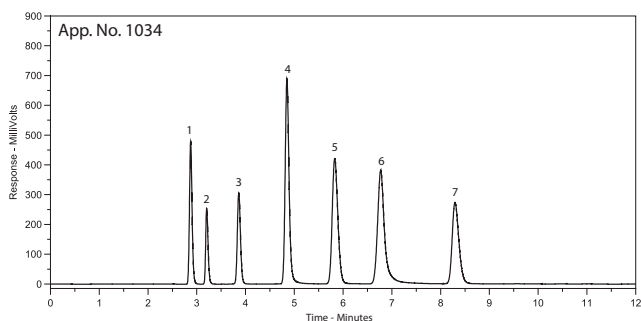
### Vitamins – Water Soluble (Isocratic)

#### Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: 3:97 MeOH/50mM  
 KH<sub>2</sub>PO<sub>4</sub> (pH 3.0)  
 Flow Rate: 1.0ml/min  
 Temperature: Ambient  
 Detection: UV, 205nm

#### Compounds

1. Pyridoxamine
2. Thiamine (Vitamin B1)
3. L-Ascorbic acid (Vitamin C)
4. Nicotinic acid
5. Pyridoxal
6. Impurity
7. Pyridoxine



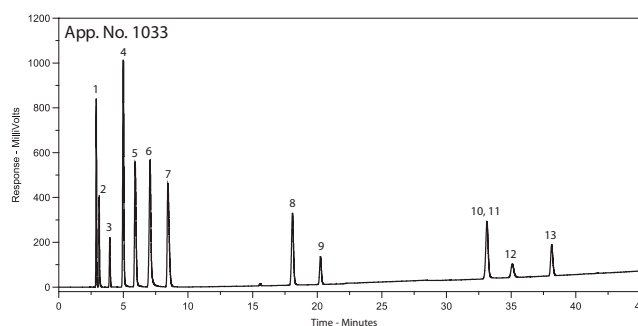
### Vitamins – Water Soluble (Gradient)

#### Conditions

Column: ACE 5 C18, 250 x 4.6mm  
 Part Number: ACE-121-2546  
 Mobile Phase: A. 50mM KH<sub>2</sub>PO<sub>4</sub> (pH 3.0)  
 B. MeOH  
 Flow Rate: 1.0ml/min  
 Gradient: T(mins) %A %B  
 0 97 3  
 5 97 3  
 45 55 45  
 50 20 80  
 Temperature: Ambient  
 Detection: UV, 205nm

#### Compounds

1. Pyridoxamine
2. Thiamine (Vitamin B1)
3. L-Ascorbic acid (Vitamin C)
4. Nicotinic acid
5. Pyridoxal
6. Impurity
7. Pyridoxine
8. p-Aminobenzoic acid
9. Pantothenic acid (Vitamin B5)
10. Folic acid (Vitamin M)
11. Cyanocobalamin (Vitamin B12)
12. d-Biotin (Vitamin H)
13. Riboflavin (Vitamin B2)



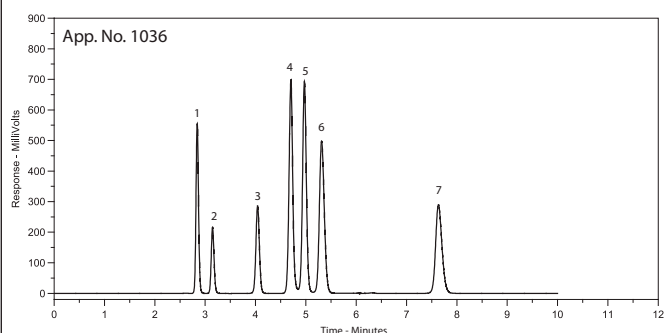
### Vitamins – Water Soluble (Isocratic)

#### Conditions

Column: ACE 5 C8, 250 x 4.6mm  
 Part Number: ACE-122-2546  
 Mobile Phase: 3:97 MeOH/50mM  
 KH<sub>2</sub>PO<sub>4</sub> (pH 2.5)  
 Flow Rate: 1.0ml/min  
 Temperature: Ambient  
 Detection: UV, 205nm

#### Compounds

1. Pyridoxamine
2. Thiamine (Vitamin B1)
3. L-Ascorbic acid (Vitamin C)
4. Niacinamide (Vitamin B3)
5. Pyridoxal
6. Nicotinic acid
7. Pyridoxine



### Vitamins – Water Soluble (Gradient)

#### Conditions

Column: ACE 5 C8, 250 x 4.6mm  
 Part Number: ACE-122-2546  
 Mobile Phase: A. 50mM KH<sub>2</sub>PO<sub>4</sub> (pH 2.5)  
 B. MeOH  
 Flow Rate: 1.0ml/min  
 Gradient: T(mins) %A %B  
 0 100 0  
 3 100 0  
 16.5 55 45  
 19.5 20 80  
 Temperature: Ambient  
 Detection: UV, 205nm

#### Compounds

1. Pyridoxamine
2. Thiamine (Vitamin B1)
3. L-Ascorbic acid (Vitamin C)
4. Niacinamide (Vitamin B3)
5. Pyridoxal
6. Pyridoxine
7. Pyridoxine
8. p-Aminobenzoic acid
9. Pantothenic acid (Vitamin B5)
10. Folic acid (Vitamin M)
11. Cyanocobalamin (Vitamin B12)
12. Riboflavin (Vitamin B2)
13. d-Biotin (Vitamin H)
14. Thiocotic acid

