

# Column Reproducibility

- Robust Column Bondings
- Assured Peak Shapes
- 20% Lower Asymmetry Specification
- 10% Higher Efficiency

Fortis HPLC columns are tested using the industries most rigorous QC test, utilising basic analyte probes as well as neutral efficiency markers ensures that the column reproducibility is first class. Fortis columns are also subject to a 20% lower peak shape specification than other manufacturers columns.



## QC Test

Fortis stationary phases have been proven to exhibit excellent peak shapes and efficiency for the full range of analyte species.

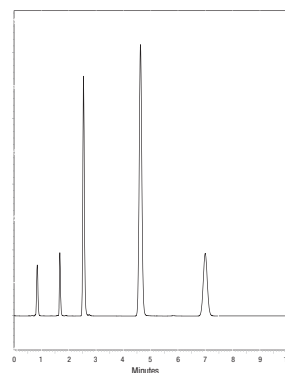
By employing a QC mix that accurately probes silanol activity (the measure of good peak shape) the analyst can be assured of quality time and time again.

Gains are also made in:

- Sample carry over
- Increased Resolution
- Increased Sensitivity

**Column:** Fortis C18 100x4.6mm 5µ  
**p/n:** F18-050505  
**Mobile Phase:** 60:40 ACN:H<sub>2</sub>O  
**Flow:** 1.0ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

1. Uracil
2. Phenol
3. 4-Ethylaniline
4. N,N-Dimethylaniline
5. Napthalene

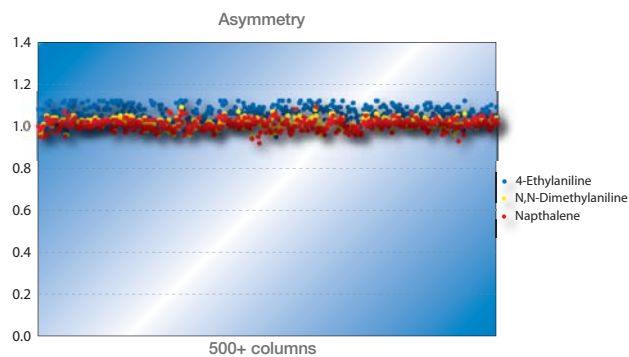


## Column Reproducibility

Fortis columns are subject to tight specification using basic analytes in an unbuffered mobile phase system.

If there were residual uncovered hydroxyl groups present then these basic probes would highlight this fact.

Fortis Technologies unique bondings combined with the ultra pure silica matrix ensure that the peak shapes achieved are first class.



# Applications

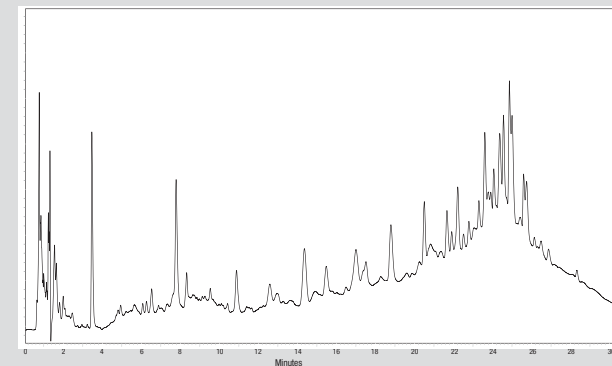


## Casein Tryptic Digest

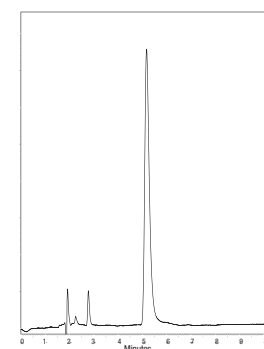
**Column:** 1.7µm Fortis C18 100x2.1mm  
**p/n:** F18-020501  
**Mobile Phase:** A - H<sub>2</sub>O + 0.1% Formic acid  
 B - ACN + 0.1% Formic acid  
**Gradient:** 0min 5% B  
 5min 5% B  
 30min 20% B  
 35min 50% B

**Flow:** 0.25 ml/min  
**Temp:** 35°C  
**Wavelength:** 200nm

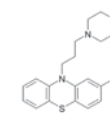
1. Casein



## Antipsychotic



1. Prochlorperazine Maleate

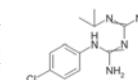


**Column:** Fortis Diphenyl 150x4.6mm 5µ  
**p/n:** FPH-050705  
**Mobile Phase:** 35:65 H<sub>2</sub>O + 0.1% Formic acid  
 : MeOH  
**Flow:** 1ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

## Antimalarial



1. Proguanil

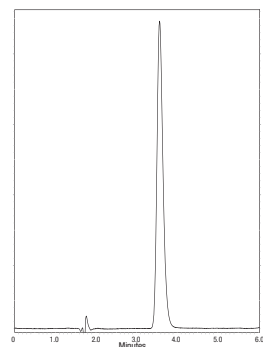


**Column:** Fortis Diphenyl 50x4.6mm 5µ  
**p/n:** FPH-050305  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: MeOH + 0.1% formic acid  
**Gradient:** 10 - 90% in 10mins  
**Flow:** 1ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

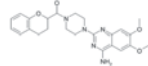
## Applications



### Adrenergic alpha-antagonist

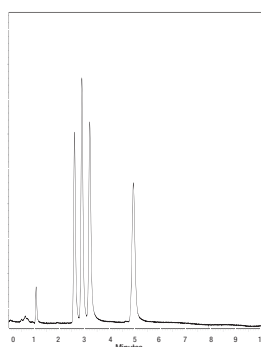


1. Doxazosin

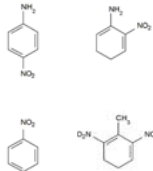


**Column:** Fortis Diphenyl 150x4.6mm 5µ  
**p/n:** FPH-050705  
**Mobile Phase:** 30:60 H<sub>2</sub>O + 0.1% Formic acid : MeOH  
**Flow:** 1ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

### Explosives

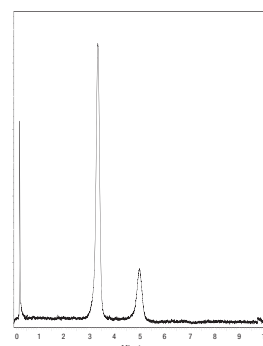


1. 4-Nitroaniline
2. 2-Nitroaniline
3. Nitrobenzene
4. 2,6-Dinitrotoluene

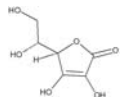


**Column:** Fortis Cyano 50x2.1mm 3µ  
**p/n:** FCN-020303  
**Mobile Phase:** A: 80:20 H<sub>2</sub>O : MeOH  
 B: ACN  
 90 - 10% Isocratic  
**Flow:** 0.2ml/min  
**Temp:** Ambient  
**Wavelength:** 254nm

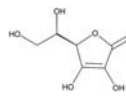
### Stereoisomers



1. Isoscorbic acid

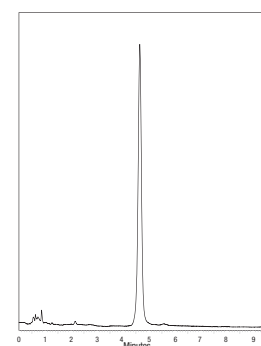


2. Ascorbic acid

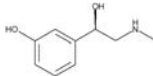


**Column:** Fortis HILIC 50x4.6mm 5µ  
**p/n:** FH-050305  
**Mobile Phase:** 90 : 10 ACN : NH<sub>4</sub>OAc  
**Flow:** 1ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

### Decongestant



1. Phenylephrine

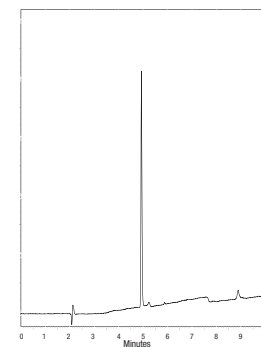


**Column:** Fortis C18 100x4.6mm 3µ  
**p/n:** F18-050503  
**Mobile Phase:** 90 : 10 H<sub>2</sub>O : MeOH + 0.1% NH<sub>3</sub>  
**Flow:** 1.2ml/min  
**Temp:** 25°C  
**Wavelength:** 210nm

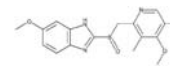
## Applications



### Proton Pump Inhibitor

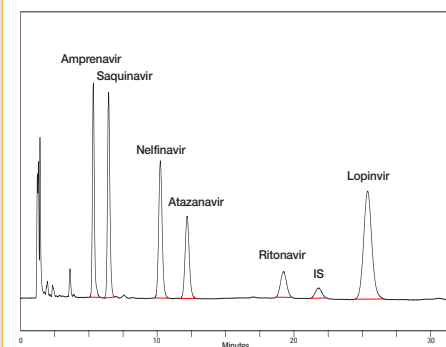


1. Omeprazole



**Column:** Fortis C18 100x4.6mm 3µ  
**p/n:** F18-050503  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% Formic acid  
 B: ACN + 0.1% Formic acid  
 10 - 100% in 10mins  
**Gradient:** 1.0ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

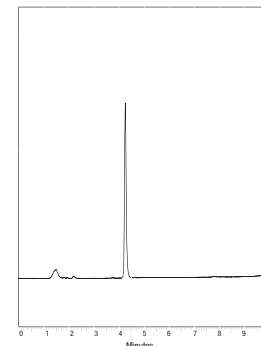
### Antiretroviral - HIV



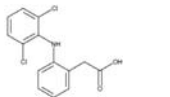
**Column:** Fortis C18 150x4.6mm 5µ  
**p/n:** F18-050705  
**Mobile Phase:** A: H<sub>2</sub>O + Buffer  
 B: MeOH + ACN

**Flow:** 1.0ml/min  
**Temp:** 25°C  
**Wavelength:** 215nm

### Non Steroid Anti-Inflammatory



1. Diclofenac Sodium

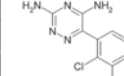


**Column:** Fortis C18 100x4.6mm 5µ  
**p/n:** F18-050505  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% Formic acid  
 B: ACN + 0.1% Formic acid  
 50 - 100% in 10mins  
**Flow:** 1.0ml/min  
**Temp:** Ambient  
**Wavelength:** 254nm

### Anticonvulsant



1. Lamotrigine

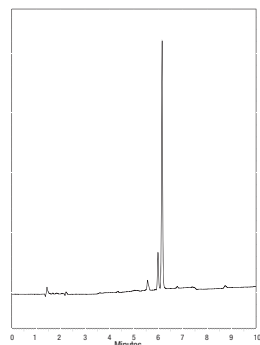


**Column:** Fortis C8 150x4.6mm 5µ  
**p/n:** F08-050705  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: MeOH + 0.1% formic acid  
 10 - 90% in 10mins  
**Flow:** 1.0ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

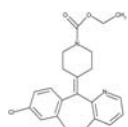
# Applications



## Antihistamine

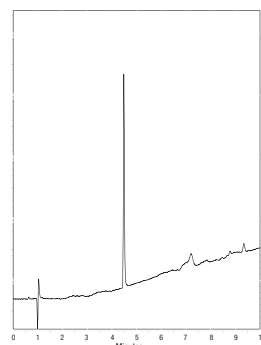


1. Loratadine

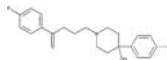


**Column:** Fortis C18 100x4.6mm 5µ  
**p/n:** F18-050505  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% Formic acid  
 B: ACN + 0.1% Formic acid  
**Gradient:** 10 - 100% in 10mins  
**Flow:** 1.0ml/min  
**Temp:** 22°C  
**Wavelength:** 254nm

## Antipsychotic

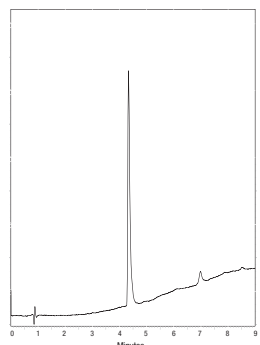


1. Haloperidol

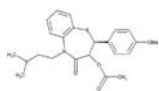


**Column:** Fortis C18 50x4.6mm 5µ  
**p/n:** F18-050305  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 100% in 5mins  
**Flow:** 1.0ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

## Hypertension

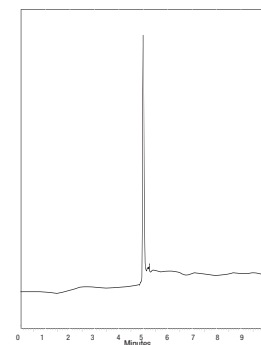


1. Diltiazem

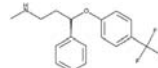


**Column:** Fortis H26 50x4.6mm 5µ  
**p/n:** FH0-050305  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 100% in 10mins  
**Flow:** 1.0ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

## Antidepressant



1. Fluoxetine



**Column:** Fortis C18 50x4.6mm 3µ  
**p/n:** F18-050303  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 100% in 10mins  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

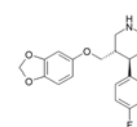
# Applications



## SSRI Antidepressant

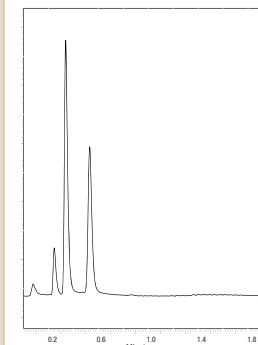


1. Paroxetine

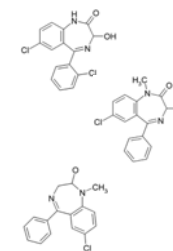


**Column:** Fortis Pace H26 30x2.1mm 3µ  
**p/n:** FH0-020203  
**Mobile Phase:** 70:30 H<sub>2</sub>O :ACN + 0.1% Formic acid  
**Flow:** 0.6ml/min  
**Temp:** 25°C  
**Wavelength:** 200nm

## Benzodiazepines

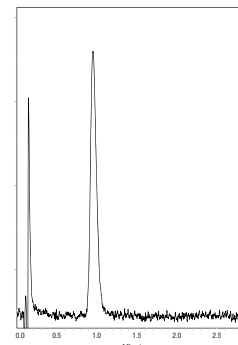


1. Lorazepam  
 2. Temazepam  
 3. Diazepam

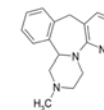


**Column:** Fortis Pace H26 30x2.1mm 3µ  
**p/n:** FH0-020203  
**Mobile Phase:** 50:50 ACN : H<sub>2</sub>O  
**Flow:** 0.7ml/min  
**Temp:** 25°C  
**Wavelength:** 220nm

## Antidepressant

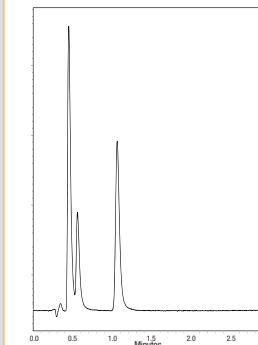


1. Mirtazapine

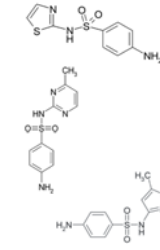


**Column:** Fortis Pace C18 30x2.1mm 5µ  
**p/n:** F18-050205  
**Mobile Phase:** 80:20 H<sub>2</sub>O : MeOH + 0.1% Formic acid  
**Flow:** 0.7ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

## Sulfa Drugs



1. Sulfathiazole  
 2. Sulfamerazine  
 3. Sulfamethoxazole

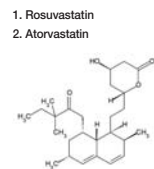
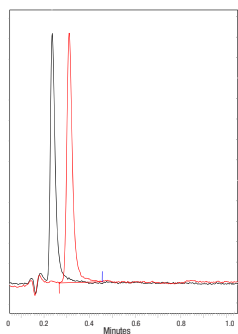


**Column:** Fortis Pace H26 30x2.1mm 3µ  
**p/n:** FH0-020203  
**Mobile Phase:** 70:30 H<sub>2</sub>O : ACN + 0.1% Formic acid  
**Flow:** 0.2ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

# Applications

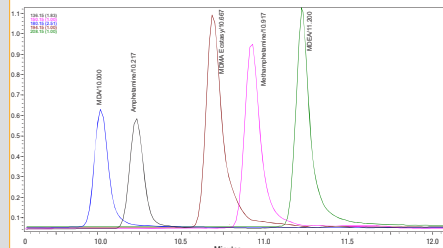


## Statins



**Column:** Fortis Pace C18 30x2.1mm 5µ  
**p/n:** F18-020205  
**Mobile Phase:** 75:25 H<sub>2</sub>O:ACN + 0.1% Formic acid  
**Flow:** 0.4ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

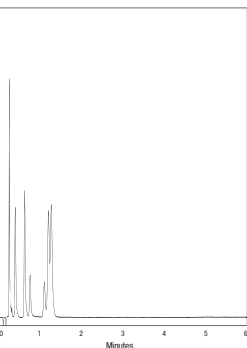
## Drugs of Abuse



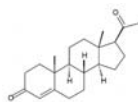
1. MDA (3,4-Methylenedioxyamphetamine)
2. Amphetamine
3. MDMA (Ecstasy)
4. Methamphetamine
5. MDEA (3,4-Methylenedioxy-N-ethylamphetamine)

**Column:** Fortis C18 150x3.0mm 5µ  
**p/n:** F18-030705  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% ammonia  
 B: ACN + 0.1% ammonia  
**Gradient:**  
**Flow:** 0.4ml/min  
**Temp:** 20°C  
**Wavelength:** MS Detection

## Steroids

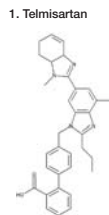
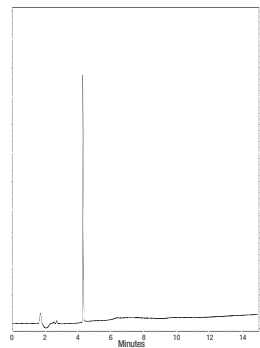


1. Progesterone
2. 17α-Hydroxyprogesterone
3. 11α-Hydroxyprogesterone
4. Hydroxy-21-acetate
5. Cortisone
6. Prednisone
7. Prednisolone



**Column:** Fortis Cyano 50x2.1mm 1.7µ  
**p/n:** FCN-020301  
**Mobile Phase:** Heptane : THF : MeOH 90:5:5  
**Flow:** 1.0ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

## Hypertension

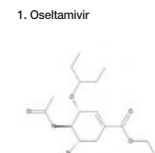
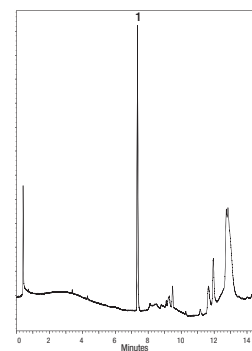


**Column:** Fortis C8 50x2.1mm 2.1µ  
**p/n:** F208-020302  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 90% in 15min  
**Flow:** 0.4ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

# Applications

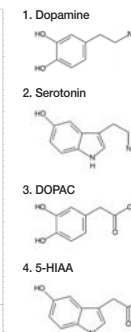
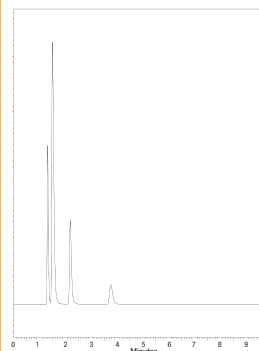


## Tamiflu®



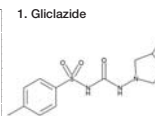
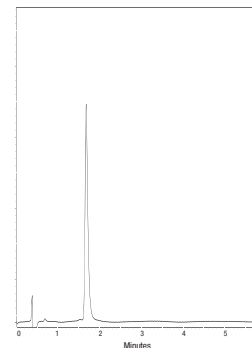
**Column:** Fortis C18 100x4.6mm 3µ  
**p/n:** F18-050503  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% ammonia  
 B: ACN + 0.1% ammonia  
**Gradient:** 10 - 100% in 15mins  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

## Neurotransmitters



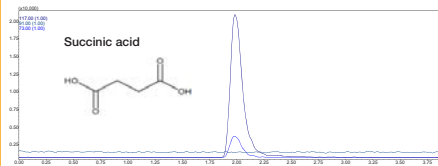
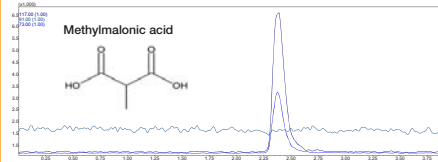
**Column:** Fortis H2o 150x4.6mm 5µ  
**p/n:** FHO-050705  
**Mobile Phase:** H<sub>2</sub>O + 0.1% formic acid  
**Flow:** 0.8ml/min  
**Temp:** 20°C  
**Wavelength:** 270nm

## Anti-Diabetic



**Column:** Fortis Diphenyl 50x2.1mm 1.7µ  
**p/n:** FPH-020301  
**Mobile Phase:** 80:20 H<sub>2</sub>O : ACN + 0.1% formic acid  
**Flow:** 0.8ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

## Organic acids

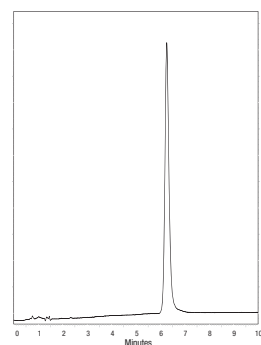


**Column:** Fortis H2o 150x2.1mm 3µ  
**p/n:** FHO-020703  
**Mobile Phase:** 5mM Ammonium formate + 0.5% formic acid  
**Flow:** 0.4ml/min  
**Temp:** 60°C  
**Wavelength:** MS Detection

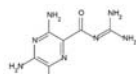
## Applications



### Diuretic

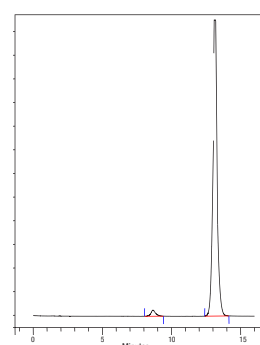


1. Amloride

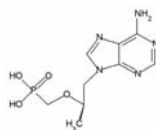


**Column:** Fortis C18 100x4.6mm 3µ  
**p/n:** F18-050503  
**Mobile Phase:** 75:25 H<sub>2</sub>O + 0.1% NH<sub>3</sub>:MeOH  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

### Protease Inhibitors

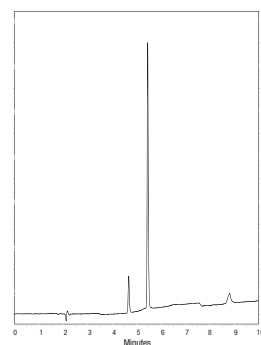


1. Tenofovir  
 2. Thymidine (IS)



**Column:** Fortis H2o 150x4.6mm 5µ  
**p/n:** FH0-030705  
**Mobile Phase:** 95:5 10mM Ammonium formate pH6.5 : MeOH  
**Flow:** 0.4ml/min  
**Temp:** 20°C  
**Wavelength:** 259nm

### Antihistamine

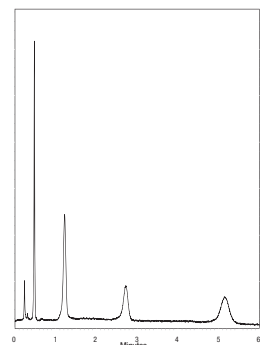


1. Promethazine theoclate

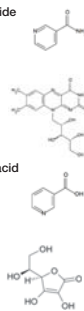


**Column:** Fortis C18 100x4.6mm 3µ  
**p/n:** F18-050503  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% ammonia  
 B: ACN + 0.1% ammonia  
**Gradient:** 10 - 100% in 10mins  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

### Vitamins



1. Nicotinamide  
 2. Riboflavin  
 3. Nicotinic acid  
 4. Vitamin C

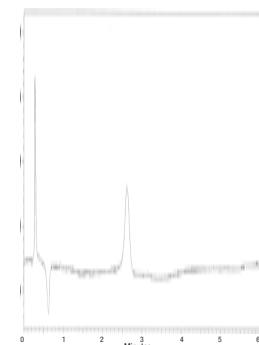


**Column:** Fortis HILIC 50x4.6mm 5µ  
**p/n:** FH1-050305  
**Mobile Phase:** 90:10 ACN : 100mM ammonium acetate  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

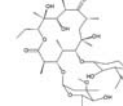
## Applications



### Erythromycin

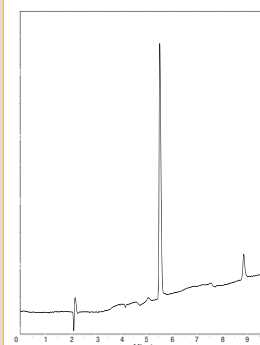


1. Erythromycin

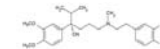


**Column:** Fortis HILIC 50x4.6mm 5µ  
**p/n:** FH-050305  
**Mobile Phase:** 90:10 ACN : 100mM ammonium acetate  
**Flow:** 0.8ml/min  
**Temp:** 20°C  
**Wavelength:** 200nm

### Calcium Channel Blocker

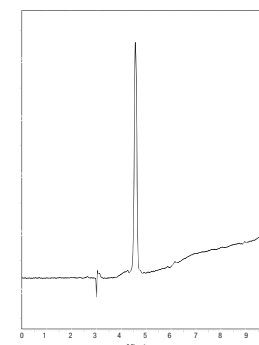


1. Verapamil

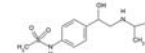


**Column:** Fortis C18 100x4.6mm 3µ  
**p/n:** F18-050503  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 90% in 10min  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

### Beta-Blockers

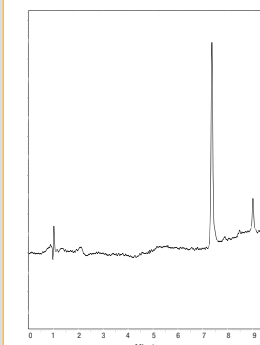


1. Sotalol



**Column:** Fortis C18 150x4.6mm 5µ  
**p/n:** F18-050305  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 5 - 100% in 10min  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

### Anti-epileptic



1. Gabapentin

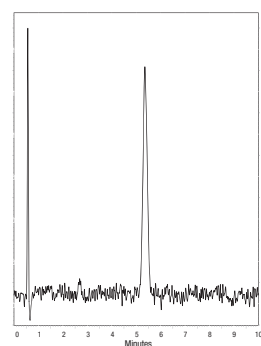


**Column:** Fortis C18 50x4.6mm 5µ  
**p/n:** F18-050305  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 100% in 5min  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 270nm

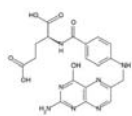
## Applications



### Vitamin

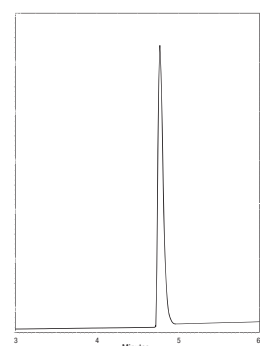


1. Folic acid

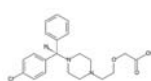


**Column:** Fortis H2o 50x4.6mm 5µ  
**p/n:** FH0-050305  
**Mobile Phase:** 60:40 H<sub>2</sub>O : ACN  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 210nm

### Antihistamine

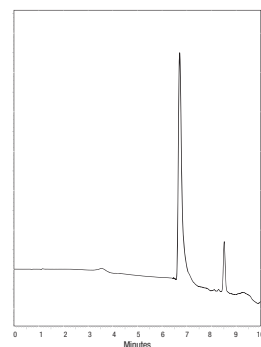


1. Levocetirizine

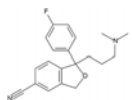


**Column:** Fortis H2o 50x4.6mm 5µ  
**p/n:** FH0-050305  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 100% in 10min  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 230nm

### Antidepressant

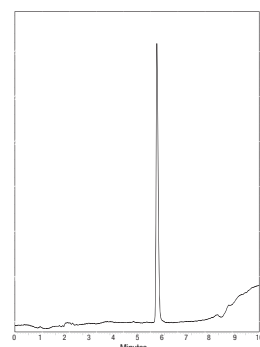


1. Citalopram

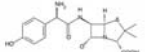


**Column:** Fortis C18 50x4.6mm 5µ  
**p/n:** F18-050305  
**Mobile Phase:** A: 50mM ammonia acetate  
 B: ACN  
**Gradient:** 10 - 100% in 10mins  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 230nm

### Antibiotic



1. Amoxicillin

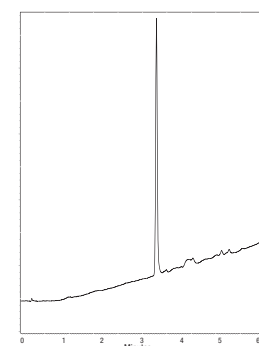


**Column:** Fortis C18 100x4.6mm 3µ  
**p/n:** F18-050503  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 5 - 50% in 10min  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

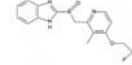
## Applications



### Proton Pump Inhibitor

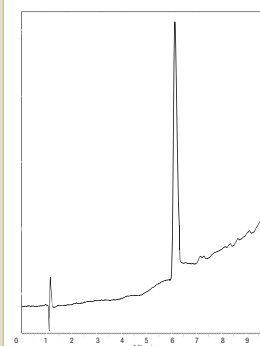


1. Lansoprazole

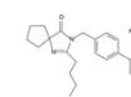


**Column:** Fortis C18 50x4.6mm 5µ  
**p/n:** F18-050305  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 100% in 10min  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

### Angiotensin II Receptor Antagonist

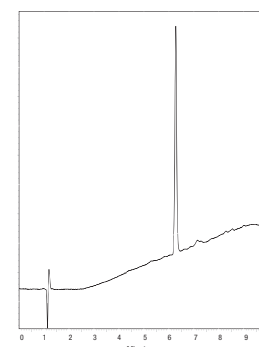


1. Irbesartan

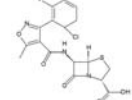


**Column:** Fortis C18 50x4.6mm 5µ  
**p/n:** F18-050305  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 100% in 10min  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

### Antibiotics

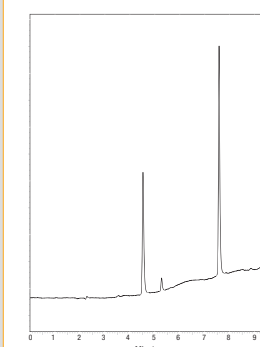


1. Flucloxacillin

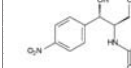


**Column:** Fortis C18 50x4.6mm 5µ  
**p/n:** F18-050305  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 100% in 10min  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

### Antibiotic



1. Chloramphenicol

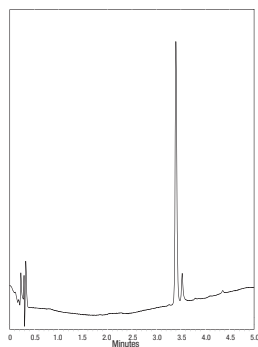


**Column:** Fortis C18 100x4.6mm 5µ  
**p/n:** F18-050505  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 5 - 70% in 10min  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 270nm

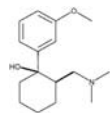
## Applications



### Opioid analgesic

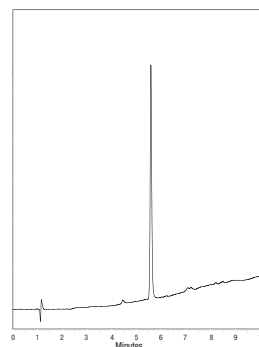


1. Tramadol

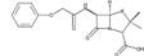


**Column:** Fortis C18 50x2.1mm 5µ  
**p/n:** F18-020305  
**Mobile Phase:** A: H<sub>2</sub>O +  
 B: ACN + 0.1% NH<sub>3</sub>  
**Gradient:** 10 - 100% in 5mins  
**Flow:** 0.2ml/min  
**Temp:** Ambient  
**Wavelength:** 220nm

### Antibiotic

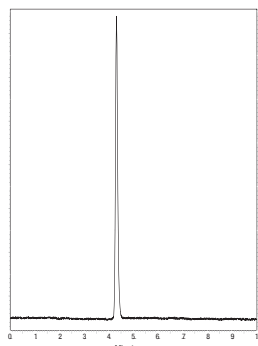


1. Phenoxymethylpenicillin

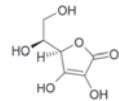


**Column:** Fortis C18 50x4.6mm 5µ  
**p/n:** F18-050305  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 100% in 10mins  
**Flow:** 1ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

### Vitamin

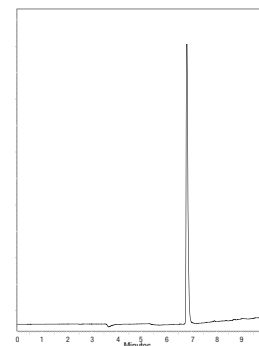


1. Vitamin C

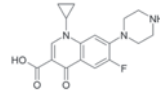


**Column:** Fortis Diphenyl 150x4.6mm 5µ  
**p/n:** FPH-050705  
**Mobile Phase:** 100% H<sub>2</sub>O + 0.1% Formic acid  
**Flow:** 0.8ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

### Antibiotic



1. Ciprofloxacin

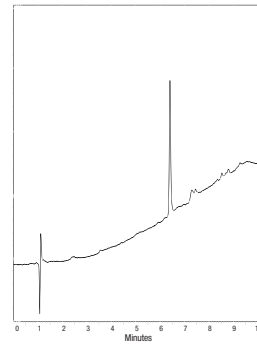


**Column:** Fortis Diphenyl 150x4.6mm 5µ  
**p/n:** FPH-050705  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: MeOH + 0.1% formic acid  
**Gradient:** 10 - 90% in 10mins  
**Flow:** 1ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

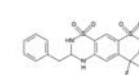
## Applications



### Thiazide Diuretic

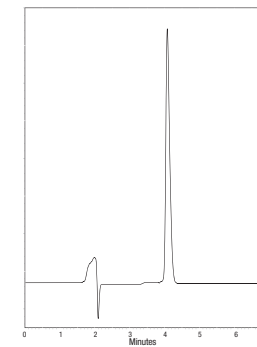


1. Bendroflumethiazide

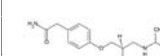


**Column:** Fortis H2o 50x4.6mm 5µ  
**p/n:** FH0-050305  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 100% in 10min  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 254nm

### Beta-Blocker

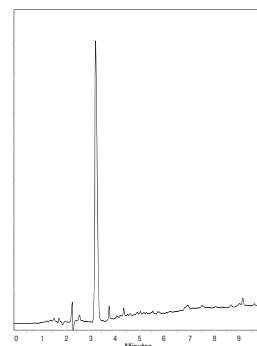


1. Atenolol



**Column:** Fortis H2o 150x4.6mm 5µ  
**p/n:** FH0-050705  
**Mobile Phase:** 92:8 H<sub>2</sub>O : ACN + 0.1% formic acid  
**Flow:** 1.0ml/min  
**Temp:** 20°C  
**Wavelength:** 220nm

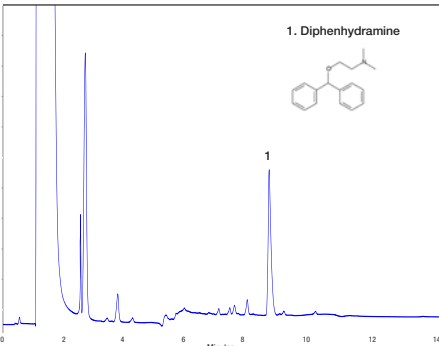
### Antibiotic



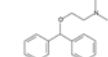
1. Co-amoxiclav

**Column:** Fortis C18 150x4.6mm 5µ  
**p/n:** F18-050705  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% formic acid  
 B: ACN + 0.1% formic acid  
**Gradient:** 10 - 90% in 10mins  
**Flow:** 1.0ml/min  
**Temp:** 25°C  
**Wavelength:** 254nm

### Antihistamine



1. Diphenhydramine



**Column:** Fortis C18 100x4.6mm 3µ  
**p/n:** F18-050503  
**Mobile Phase:** A: H<sub>2</sub>O + 0.1% NH<sub>3</sub>  
 B: ACN + 0.1% formic acid  
**Gradient:** 0 - 100% in 10mins  
**Flow:** 1ml/min  
**Temp:** 25°C  
**Wavelength:** 220nm

1-Hydroxy-midazolam	19	DOPAC	43	Omeprazole	39
11α-Hydroxyprogesterone	42	Dopamine	43	Ornithine	24
17α-Hydroxyprogesterone	42	Doxazosin	38	Osetamivir	43
2,4-D	26	Doxepin	8	Oxazepam	19
2,4-DB	26	Erythromycin	45	Paroxetine	41
2,4-DCP	26	Ethylbenzene	29	PCOC	26
2,4-DP	26	Fenuron	6	Pentylbenzene	29
2,6-Dinitrotoluene	38	Flucloxacillin	17	Pesticide	17
2-Hydroxyestradiol	21	Flunitrazepam	49	Phenoxyethylpenicillin	48
2-Nitroaniline	38	Fluoxetine	40	Phenylalanine	24
3-Nitrobenzoic acid	6	Folic acid	46	Phenylephrine	38
4-Ethylaniline	4, 36	Gabapentin	45	PK11195	21
4-Hydroxyestradiol	21	Gibberellin acid	18	Prednisolone	42
4-Nitroaniline	38	Gliclazide	43	Prednisone	42
5-HIAA	43	Glutamic acid	24	Procaine	6
7-Aminoclonazepam	19	Gly-Tyr	24	Prochlorperazine Maleate	37
7-Aminoflunitrazepam	19	Glycine	24	Progesterone	42
7-Aminonitrazepam	19	Guanosine	28	Proguanil	37
Abscisic acid	18	Haloperidol	40	Proline	24
Acetic acid	15	Heptylbenzene	29	Promethazine	44
Adenine	27	Hexylbenzene	29	Propylbenzene	29
Alanine	24	Histidine	24	Protriptyline	10, 14
Alprazolam	19	Hydroxy-21-acetate	42	Quetiapine	15
Amiloride	44	Imipramine	8	Quinidine	21
Amitriptyline	8, 10, 14	Indol-3-yl acetate	18	Riboflavin	44
Amoxicillin	46	Irbesartan	47	Ritonavir	39
Amphetamine	42	Isoascorbic acid	38	Rosuvastatin	42
Amprenavir	39	Isoleucine	24	Saquinavir	39
Arginine	24	Isonicotinamide	7	Sarcosin	24
Asparagine	24	Kinetin	18	Serine	24
Aspartic acid	24	Lamotrigine	25, 39	Serotonin	43
Atazanavir	39	Lansaprazole	47	Sotalol	45
Atenolol	49	Leucine	24	Succinic acid	43
Atorvastatin	42	Levocetirizine	46	Sulfamerazine	41
Banvel	26	Lidocaine	14	Sulfamethoxazole	41
Bendroflumethiazide	49	Lopinivir	39	Sulfathiazole	41
Benzene	29	Loratadine	40	Sumatriptan	35
Benzyladenine	18	Lorazepam	41	Telmisartan	42
Butylbenzene	29	Lysine	24	Temazepam	41
Casein	37	MCPA	26	Tenofovir	44
Cefaclor	33	MCPB	26	Theobromine	27
Cefadroxil	33	MDA (3,4-Methylenedioxyamphetamine)	42	Thiabendazole	17
Cefalexin	33	MDEA (3,4-Methylenedioxy-N-ethylamphetamine)	42	Threonine	24
Cefradine	33	MDMA (Ecstasy)	42	Thymidine	44
Chloramphenicol	47	Melamine	28	Toluene	27
Ciprofloxacin	48	Methamphetamine	42	Tramadol	48
Citalopram	46	Methionine	24	Trimipramine	10, 14
Clonazepam	19	Methylmalonic acid	43	Tryptophan	24
CMPP	26	Midazolam	19	Tyrosin	24
Co-amoxiclav	49	Mirtazapine	41	Uracil	6, 27
Cortisone	42	N,N-Dimethylaniline	4, 36	Uridine	28
Cytosine	28	Naphthalene	4, 36	Valine	24
Dechlorinated PK11195	21	Nefinavir	39	Valproate Semisodium	25
Desmethyl diazepam	19	Neomycin Sulphate	15	Verapamil	45
Dexamethasone	15	Nicotinamide	7, 44	Vitamin C	44, 48
Diazepam	19, 41	Nicotinic acid	44	Zolpidem	19
Diclofenac	39	Nitrazepam	19	Zopiclone	19
Dihydroquinidine	21	Nitrobenzene	38		
Diltiazem	40	Nortriptyline	8, 10, 14		
Diphenhydramine	49	Norvalin	24		

## Part number tables

Fortis C18	Column Length						
	20	30	50	100	150	250	
	2.1	F18-0201xx	F18-0202xx	F18-0203xx	F18-0205xx	F18-0207xx	-
Column Diameter	3.0	-	F18-0302xx	F18-0303xx	F18-0305xx	F18-0307xx	-
	4.6	-	F18-0502xx	F18-0503xx	F18-0505xx	F18-0507xx	F18-0509xx

Replace xx -01 for 1.7µm -02 for 2.5µm -03 for 3µm -05 for 5µm -10 for 10µm

Fortis Diphenyl	Column Length						
	20	30	50	100	150	250	
	2.1	FPH-0201xx	FPH-0202xx	FPH-0203xx	FPH-0205xx	FPH-0207xx	-
Column Diameter	3.0	-	FPH-0302xx	FPH-0303xx	FPH-0305xx	FPH-0307xx	-
	4.6	-	FPH-0502xx	FPH-0503xx	FPH-0505xx	FPH-0507xx	FPH-0509xx

Replace xx -01 for 1.7µm -02 for 2.5µm -03 for 3µm -05 for 5µm -10 for 10µm

Fortis H2o	Column Length						
	20	30	50	100	150	250	
	2.1	FHO-0201xx	FHO-0202xx	FHO-0203xx	FHO-0205xx	FHO-0207xx	-
Column Diameter	3.0	-	FHO-0302xx	FHO-0303xx	FHO-0305xx	FHO-0307xx	-
	4.6	-	FHO-0502xx	FHO-0503xx	FHO-0505xx	FHO-0507xx	FHO-0509xx

Replace xx -03 for 3µm -05 for 5µm

Fortis C8	Column Length						
	20	30	50	100	150	250	
	2.1	F08-0201xx	F08-0202xx	F08-0203xx	F08-0205xx	F08-0207xx	-
Column Diameter	3.0	-	F08-0302xx	F08-0303xx	F08-0305xx	F08-0307xx	-
	4.6	-	F08-0502xx	F08-0503xx	F08-0505xx	F08-0507xx	F08-0509xx

Replace xx -03 for 3µm -05 for 5µm

Fortis Cyano	Column Length						
	20	30	50	100	150	250	
	2.1	FCN-0201xx	FCN-0202xx	FCN-0203xx	FCN-0205xx	FCN-0207xx	-
Column Diameter	3.0	-	FCN-0302xx	FCN-0303xx	FCN-0305xx	FCN-0307xx	-
	4.6	-	FCN-0502xx	FCN-0503xx	FCN-0505xx	FCN-0507xx	F18-0509xx

Replace xx -01 for 1.7µm -03 for 3µm -05 for 5µm

Fortis HILIC	Column Length						
	20	30	50	100	150	250	
	2.1	FHI-0201xx	FHI-0202xx	FHI-0203xx	FHI-0205xx	FHI-0207xx	-
Column Diameter	3.0	-	FHI-0302xx	FHI-0303xx	FHI-0305xx	FHI-0307xx	-
	4.6	-	FHI-0502xx	FHI-0503xx	FHI-0505xx	FHI-0507xx	FHI-0509xx

Replace xx -01 for 1.7µm -03 for 3µm -05 for 5µm -10 for 10µm

5µm Fortis Guard Cartridges	
DCGUA-1	Guard Cartridge Holder
DCxx-040005G/2	10x4mm Fortis 5µm Guard pk 2
DCxx-040005G/4	10x4mm Fortis 5µm Guard pk 4
DCxx-020005G/2	10x2mm Fortis 5µm Guard pk 2
DCxx-020005G/4	10x2mm Fortis 5µm Guard pk 4

Replace xx 18 for Fortis C18 PH for Fortis Diphenyl HO for Fortis H2o

3µm Fortis Guard Cartridges	
DCGUA-1	Guard Cartridge Holder
DCxx-040003G/2	10x4mm Fortis 3µm Guard pk 2
DCxx-040003G/4	10x4mm Fortis 3µm Guard pk 4
DCxx-020003G/2	10x2mm Fortis 3µm Guard pk 2
DCxx-020003G/4	10x2mm Fortis 3µm Guard pk 4

08 for Fortis C8 CN for Fortis Cyano HI for Fortis HILIC

Analytical In-line Filters	
2-SAV5	2µm In-line filter pk 5
2-SAV10	2µm In-line filter pk 10

UHPLC In-line Filters	
UHPSAV2	UHPLC In-line filter pk 2
UHPSAV4	UHPLC In-line filter pk 4