

Porosity - Surface Enhanced Accessibility

Ultrahigh Purity BDS Range

Batch to Batch Reproducibility

Individual Tested Column

Large surface Area

Better pH Stability

# C18 HP

## Mechanisms of Separation

Hydrophobic	Very Strong
Hydrophilic	Low
Acidic	Low
Basic	Low
Ion Exchange	-
$\pi$ - $\pi$	-

## Target Analytes

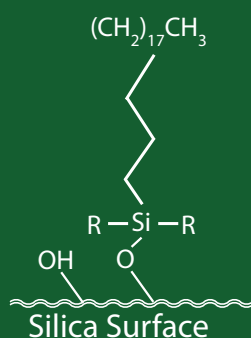
Analytes differing in hydrophobicity
Polar, moderately Polar, & non-polar analytes
Uncharged acids & bases
Ionized acids or bases using ion-pairing

## Applications

Analytes differing in hydrophobicity
Homologous compounds differing by -CH <sub>2</sub>

## Specifications

Pore size (Å)	100
Particle Size (µm)	3, 5
Surface Area (m <sup>2</sup> /g)	450
Carbon Load %	17
End-Capping	Yes
pH Range	2 to 9
Aq. Compatible	95%
USP Listing	L1
Phase Type	Monomeric



## Ciprofloxacin & Related impurities

### Conditions

Column: Qualitas C18 HP  
250X4.6 mm, 5 µm

Buffer: 0.025 M phosphoric acid. Adjust with triethylamine to a pH of 3.0 ± 0.1.

Mobile Phase: Mix Buffer : Acetonitrile (87:13 v/v)

Flow Rate: 1.5 ml/min

Temperature: 30°C

Detection: UV, 278 nm

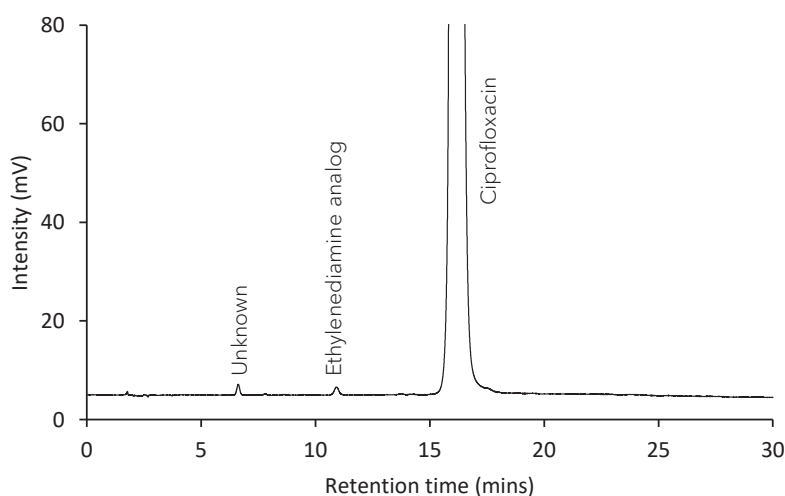
Injection Volume: 10 µl

Sample: Transfer 25 mg of Ciprofloxacin to a 50-mL volumetric flask. Add 0.2 mL of 7% phosphoric acid, and dilute with Mobile phase to volume.

Pressure Drop: 130-134 Bar(1885-1943 psi)

### Compounds

1. Unknown
2. Ethylenediamine analog
3. Ciprofloxacin



No.	Compound	Retention Time (min)	RRT	Tailing factor
1	Unknown	6.6	0.41	1.01
2	Ethylenediamine analog	10.9	0.68	1.06
3	Ciprofloxacin	16.0	1.00	1.72

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