

# Longlife UNIBOND HPLC Column

## KEY FEATURES:

Suitable for LC/MS and HPLC at pH extremes (pH 1-11)

- Superior base deactivation
- Ideal for method development

## TECHNICAL CHARACTERISTICS:

Available as octadecyl (C18) and octyl (C8), multi-endcapped; pore size 110 Å: particle sizes 1.8 µm, 3 µm and 5 µm for C18, 1.8 and 5 µm for C8; 7, 10, 12 and 16 µm particles for preparative purposes on request; carbon content 18% for C18, 11 % for C8

## BASE DEACTIVATION

UNIBOND C18 AND UNIBOND C8 are based on the ultrapure silica.

A unique derivatization process generates a homogeneous surface with a high density of bonded silanes (carbon content ~18 % for C18, ~11 % for C8). The following thorough endcapping suppresses any unwanted polar interactions between the silica surface and the sample, particularly suitable for the separation of basic and other ionizable analytes.

## ENHANCED PH STABILITY

One major disadvantage of using silica stationary phases is the limited stability at strongly acidic or basic pH ranges. Cleavage of the siloxane bonding by hydrolysis, or dissolution of the silica will rapidly lead to a considerable loss in column performance. Therefore conventional RP phases are usually not recommended to be run with mobile phases at pH > 8 or pH < 2 for extended periods of time. The special surface bonding technology and the low concentration of trace elements of UNIBOND C18 / C8 allow for use at an expanded pH range from pH 1 to 11.

## RECOMMENDED APPLICATION:

Overall sophisticated analytical separations  
Compound classes separated include: pharmaceuticals, e.g., analgesics, anti-inflammatory drugs, antidepressants; herbicides; phytopharmaceuticals; immunosuppressants

**USP L1 (C18)/ USP L7 (C8)**



Packings	Unibond C18
Particle Diameter (µm)	1.8, 2, 3.5 & 10
Pore size(A)	100
Pore Volume (mL/g)	1.1
Endcapped	Yes
Specific surface area(m <sup>2</sup> /g)	450
Metallic impurities (ppm)	<10
Carbon content	17%
pH range	1 - 11
Temperature range (°C)	20 - 60

## AVAILABLE IN C18, C8, SILICA, CYNO, PHENYL, DIOL HPLC COLUMN

UB525059-0 Unibond C18 Column, 4.6x250mm,5µm,100A

UB515059-0 Unibond C18 Column, 4.6x150mm,5µm,100A

UB315059-0 Unibond C18 Column, 4.6x150mm,3µm,100A

UB505059-0 Unibond C18 Column, 4.6x50mm,5µm,100A

UB520059-0 Unibond C18 Column, 4.6x200mm,5µm,100A

UB305029-0 Unibond C18 Column, 2.1x50mm,3µm,100A

UIS205029-0 Unisphere UHP ASB C18, 2.1x50mmx2µm,100A

UB030049-0 Unibond C18, 300 mm x 3.9 mm x 10 µ