

Unisphere Extend C18 and C8



# Unisphere Extend C18 and C8

*Same Price, Higher Quality !*

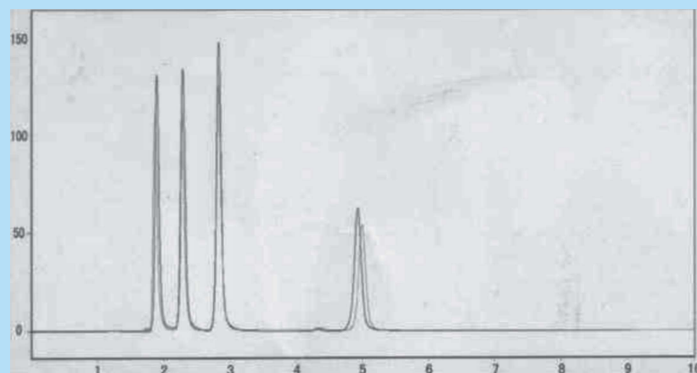
Expanding into high pH applications with columns of superior stability

The Unisphere Extend series of chromatograph columns have been newly developed by Agela Technologies, Inc. by using its proprietary Unisphere technology for applications in extended pH range. Manufactured with Agela's proprietary Unisphere technology, these columns are stable in both extremely high and low pH environments. By applying the technology of carbon-hybridization bonding on the surface of silica, attack on silica by basic (alkaline) solutions has been effectively prevented and the life of the columns has been extended. In addition, the Unisphere Extend C18 columns have very high loading capacity for basic compounds. Therefore, they are suitable for preparative of basic chemical compounds.

The characteristics of Unisphere Extend are:

1. Excellent stability in a wide range of pH, pH = 1.0 to 12.0
2. Very inert surface, which leads to a very symmetric peak shape for basic or acidic compounds
3. High loading capacity : can be used as preparative columns

## Excellent Stability at Extreme pHs



Red: Initial Chromatogram  
Black: Final Chromatogram after 600 hours experiment

Column : Unisphere Extend C18, 5 $\mu$ m, 4.6 x 150 mm  
 Chromatography Testing Conditions  
 Mobile phase: methanol:water=85:15  
 Flow rate : 0.8 mL/min  
 Detection wavelength: 254 nm;  
 Temperature : 30°C ;  
 Injection : 1 $\mu$ l  
 Sample : Uracil, Phenol, Nitrobenzene, Naphthalene  
 (according to retention time sequence)

Aging Conditions:  
 Mobile phase  
 Methanol / Triethylamine water solution (pH=12) = 40/60  
 Flow rate : 1.0 mL/min  
 Temperature: 60°C