

## Application for YMC-Triart C18 ~ Flexibility in method development ~

S090910AE

YMC-Triart C18 may be used over a pH range of 1~12, enabling the method development chemist great flexibility to manipulate the pH of the eluent to affect optimal retention and resolution of analysis.

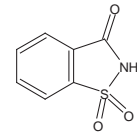
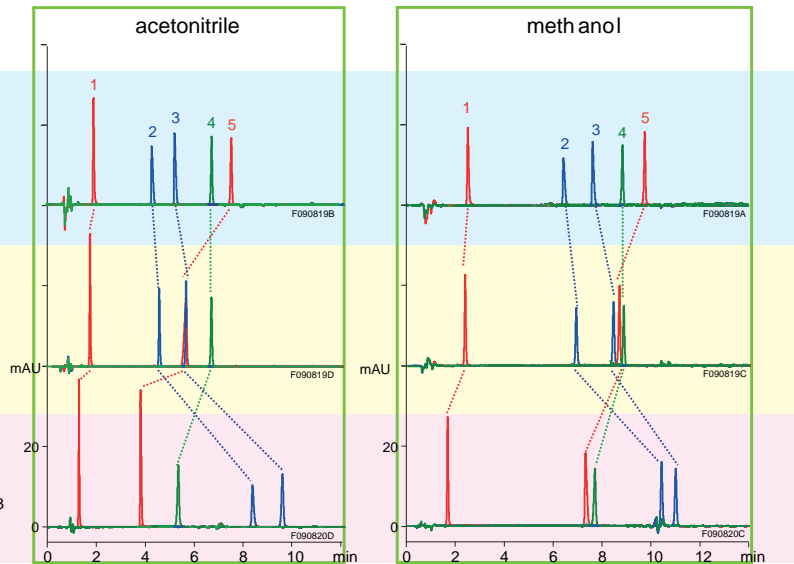
Adjust pH and/or choice of organic solvent to adjust resolution and retention

YMC-Triart C18  
5  $\mu$ m, 50 X 2.0 mml.D.

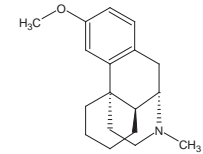
pH 2.9  
10 mM HCOOH

pH 6.1  
10 mM HCOONH<sub>4</sub>

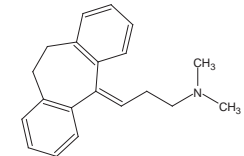
pH 9.9  
10 mM HCOONH<sub>4</sub>-NH<sub>3</sub>



1. Saccharin  
pKa=2.2



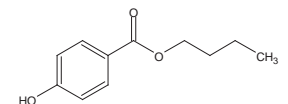
2. Dextromethorphan  
pKa=8.3



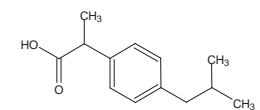
3. Amitriptyline  
pKa=9.4

## Excellent peak shapes

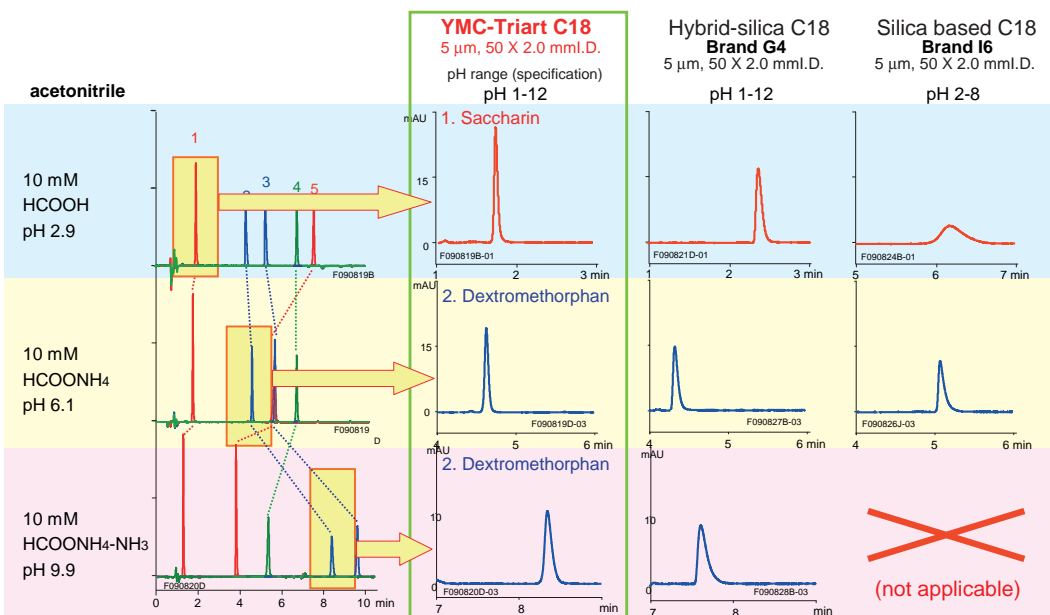
Triart C18 delivers excellent peak shapes for acids, bases, and neutral compounds with superior resolution. It also affords the method development chemist the combination of lot-to-lot and column-to-column reproducibility and long column lifetime.



4. n-Butylparaben  
pKa=8.3



5. Ibuprofen  
pKa=4.4



Eluent : A) 10 mM formate buffer  
B) methanol or acetonitrile  
: 5-90%B (0-10 min),  
90%B (10-15 min)  
Flow rate : 0.2 mL/min  
Temperature : 25 °C  
Detection : UV at 230 nm