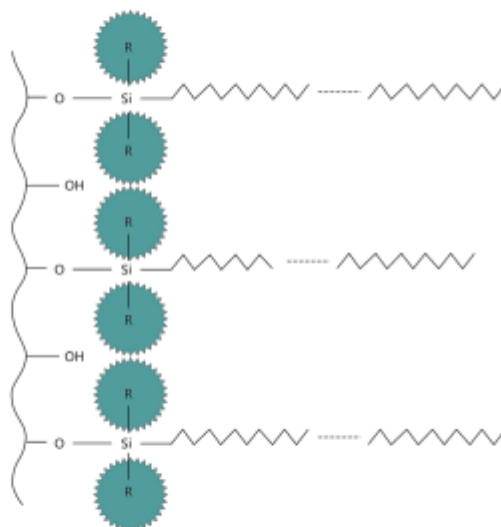


Caprisil C18-IP/C8-IP

C18-IP is similar with ZORBAX SB series chromatography columns with the same bonding technology, which can stably tolerate low pH conditions. It features diisobutyl side chain groups, which play a steric hindrance effect to the alkyl chains bonded to the surface of silica gel, avoiding hydrolysis damage to Si-O bonds under low pH conditions. It provides good stability and longest lifespan under acidic mobile phase conditions.



Space steric hindrance bonded fixed phase

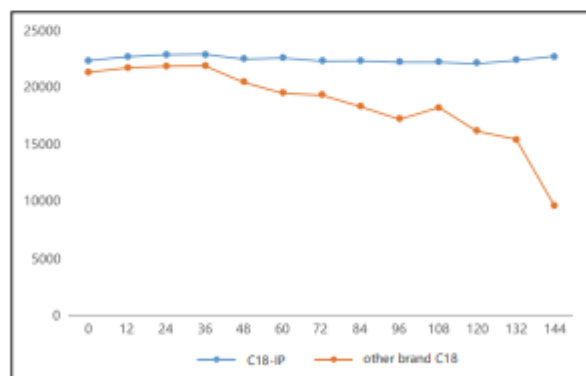
Stationary phase characteristics:

Phases	Surface area(m^2/g)	Pore Size(\AA)	Carbon loading (%)	是否封端	USP 编号	pH range
Caprisil C18-IP	320	100	11	Yes	L1	0.6 ~ 8
Caprisil C8-IP	320	100	7	Yes	L7	0.6 ~ 8

HPLC COLUMN

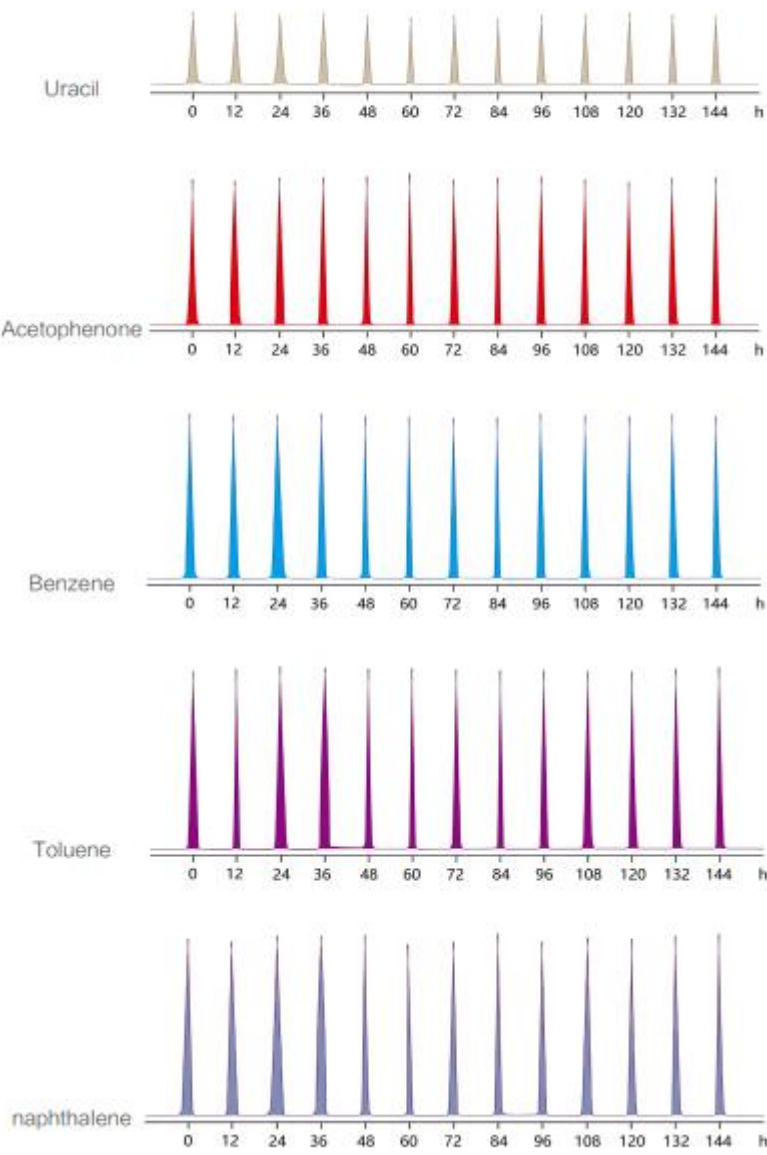
Five-mix	Uracil column efficiency	Acetophenone column potency	Benzene column potency	Toluene column potency	Naphthalene column effect
Elution for 0h	9250	18707	20905	22299	22007
Elution for 12h	9234	18699	20608	22700	21998
Elution for 24h	9203	18766	20803	22846	22272
Elution for 36h	9226	18783	20846	22846	22272
Elution for 48h	8993	18922	20780	22506	22331
Elution for 60h	8984	18837	20427	22566	21365
Elution for 72h	9007	18546	20277	22301	21742
Elution for 84h	8987	18790	20277	22355	22617
Elution for 96h	8998	18893	20833	22242	21822
Elution for 108h	9064	18566	20581	22224	22038
Elution for 120h	9185	18304	20535	22158	22003
Elution for 132h	9168	18756	20762	22447	22375
Elution for 144h	9126	18880	20037	22695	22676

Toluene comparison diagram



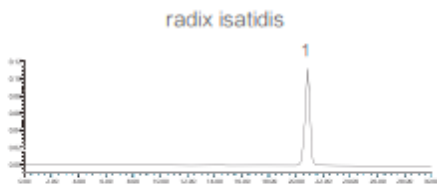
Note: pH=0.8 mobile phase rinsing, after 144 hours of rinsing, the column efficiency is very stable and there is no significant decrease

Column acid resistance test

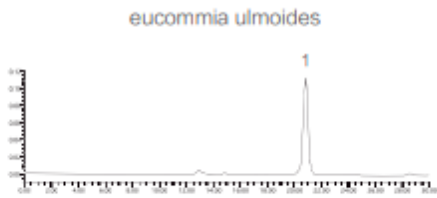


HPLC COLUMN

Caprisil C18-IP Application



Column: CE553-C18-IP
Flow Rate: 1 mL/min
Injection Volume: 10 μ l
Mobile Phase: Methanol: 0.02%phosphoric acid solution
(7: 93)
Detector: UV@245nm
Samples: 1.Epigotrin



Column: CE553-C18-IP
Flow Rate: 1 mL/min
Injection Volume: 10 μ l
Mobile Phase: Methanol: Water (25: 75)
Detector: UV@277nm
Samples: 1.Pineester diglucoside