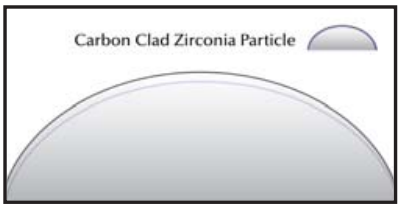
ZirChrom®
...For Peak Performance

ZIRCHROM®-CARB



- Ideal for Separating Steroids and Analogues
- Excellent Selectivity for Acidic Compounds
- pH Stable from 1 to 14 for Robust Methods
- Excellent Thermal Stability for Fast Separations

Method Development with ZirChrom®-CARB

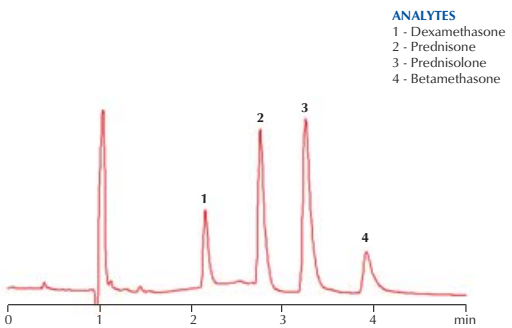
ZirChrom®-CARB is produced by coating our zirconia particle with an extremely thin layer of elemental carbon. The resulting phase gives ZirChrom®-CARB very different selectivity than any bonded or polymeric phase, and represents an excellent alternative when bonded phases do not provide the required selectivity.

ZirChrom®-CARB is great for geometric isomer separations, and is superb for separating diastereomers. The selectivity of ZirChrom®-CARB is more different from ODS than phenyl or cyano phases. This makes it an excellent choice for orthogonal screening in drug discovery and impurity profiling. Like all of our traditional zirconia-based products, proper buffer selection helps to ensure the best peak shapes and band spacing. ZirChrom®-CARB is stable from pH 1-14, and up to 200 °C.

For more detailed guidelines, consult our new Method Development Guide. Or, contact our technical support group at 1-866-STABLE-1.

PACKING	MODE	PART
ZirChrom®-CARB	Reversed-Phase	ZR01
Microbore, Semi-Prep and Prep Formats Available—see Page 24		

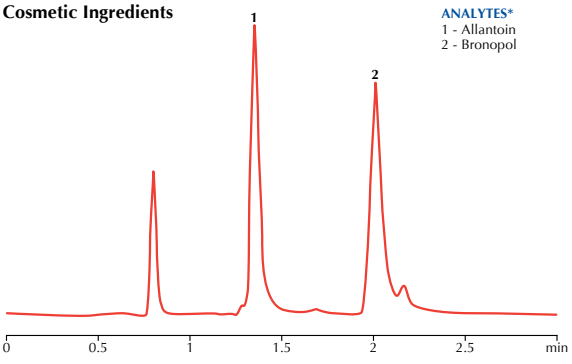
Fast Separation of Corticosteroids on ZirChrom®-CARB



LC CONDITIONS
Mobile phase: 60/10/30 Acetonitrile/MTBE/Water
Flow rate: 1.5 ml/min Temperature: 80 °C
Injection vol.: 15 µl Detection: 215 nm
Column: ZirChrom®-CARB, 150 x 4.6 mm i.d. (**part# ZR01-1546**)

Separation of Highly Polar Analytes on ZirChrom®-CARB

Cosmetic Ingredients



LC CONDITIONS
Mobile phase: 20/80 ACN/Water
Flow rate: 1.0 ml/min Temperature: 25 °C
Injection volume: 5 µl Detection: 200 nm
Column: ZirChrom®-CARB, 100 x 4.6 mm i.d. (**part# ZR01-1046**)

*NOTE: These compounds are unretained on ODS in pure water