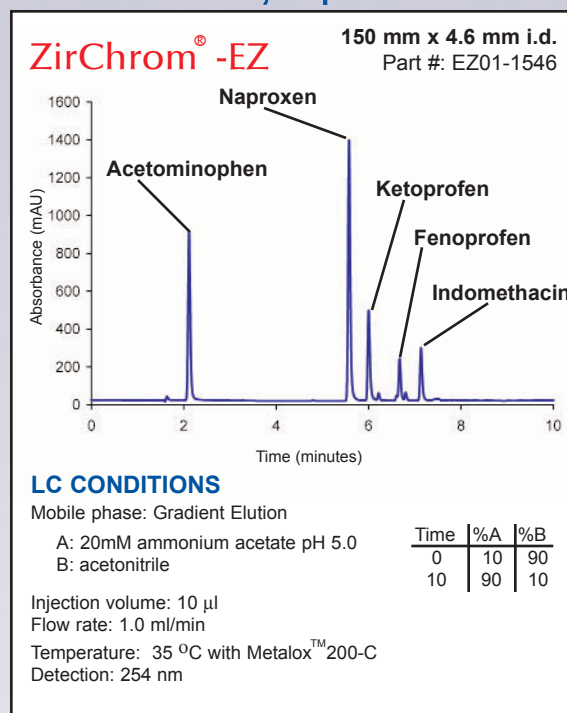


# ZirChrom® -EZ Offers MS Compatibility and Unique Selectivity on a Zirconia Platform.

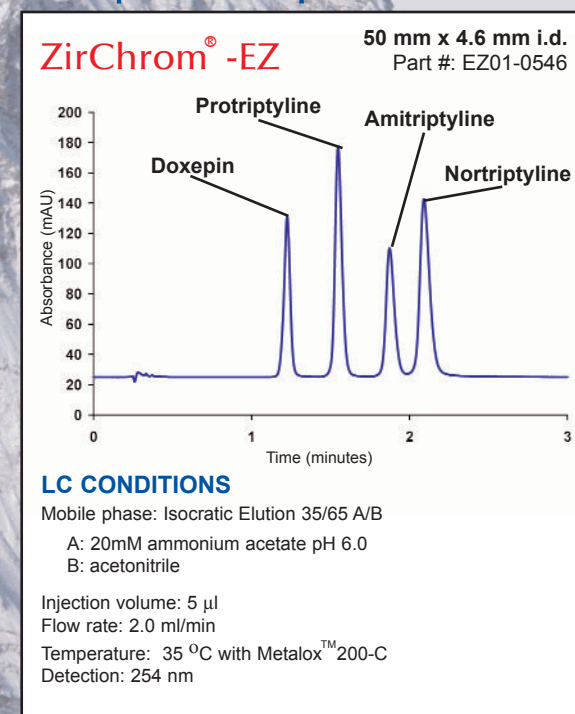
Historically, the Lewis base carboxylic acid moiety on non-steroidal anti-inflammatory drugs required the use of a Lewis base mobile phase additive of a higher strength in the elutropic series (such as phosphate or fluoride). While these types of additives work well in applications with UV/Vis detection, their use is almost entirely prohibited in LC/MS applications due to their relatively low volatility. The deactivation of Lewis acid sites on the surface of the ZirChrom®-EZ particle allows the chromatography of Lewis base analytes using mobile phase additives of the user's choice including conventional LC/MS compatible buffers (such as acetate and formate) throughout the pH range of 1-10. Five non-steroidal anti-inflammatory drugs were separated using simple acetonitrile/water gradient elution and a LC/MS friendly acetate buffer (see opposite page).

## LC/MS Compatible Non-steroidal Anti-Inflammatory Separation



- Easy to Use
- Unique Selectivity
- Wide Applicability
- Designed for LC/MS

## Fast LC/MS Compatible Tricyclic Antidepressants Separation

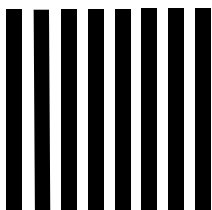


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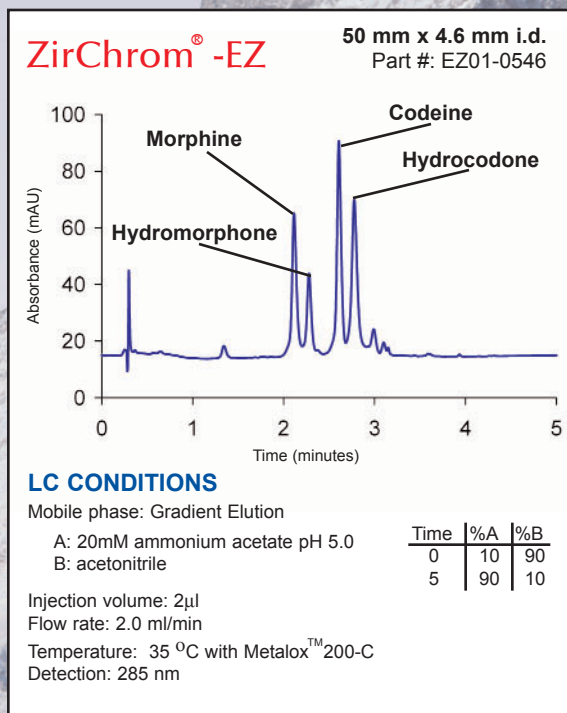
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## Zirconia-Based Column Chemistries Available from ZirChrom® Separations

Phase #	Product Name	Chromatographic Mode
DB01	Diamondbond®-C18	Carbon Clad C-18 Reversed-Phase
<b>EZ01</b>	<b>ZirChrom®-EZ</b>	<b>Lewis Acid Deactivated Reversed-Phase</b>
ZR01	ZirChrom®-CARB	Carbon Clad Reversed-Phase
ZR02	ZirChrom®-PHASE	Normal Phase/SEC
ZR03	ZirChrom®-PBD	Reversed-Phase
ZR04	ZirChrom®-WCX	Weak Cation-Exchange
ZR05	ZirChrom®-WAX	Weak Anion Exchange
ZR06	ZirChrom®-SAX	Strong Anion-Exchange
ZR07	ZirChrom®-SHAX	Stron Hydrophillic Anion-Exchange
ZR08	ZirChrom®-PEZ	Cation-Exchanger for Bio-Molecules
ZR09	ZirChrom®-PS	Reversed-Phase
PT01	ProTain®	In-Line Protein Removal System
AB01	Rhinophase®-AB	Antibody Purification System

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