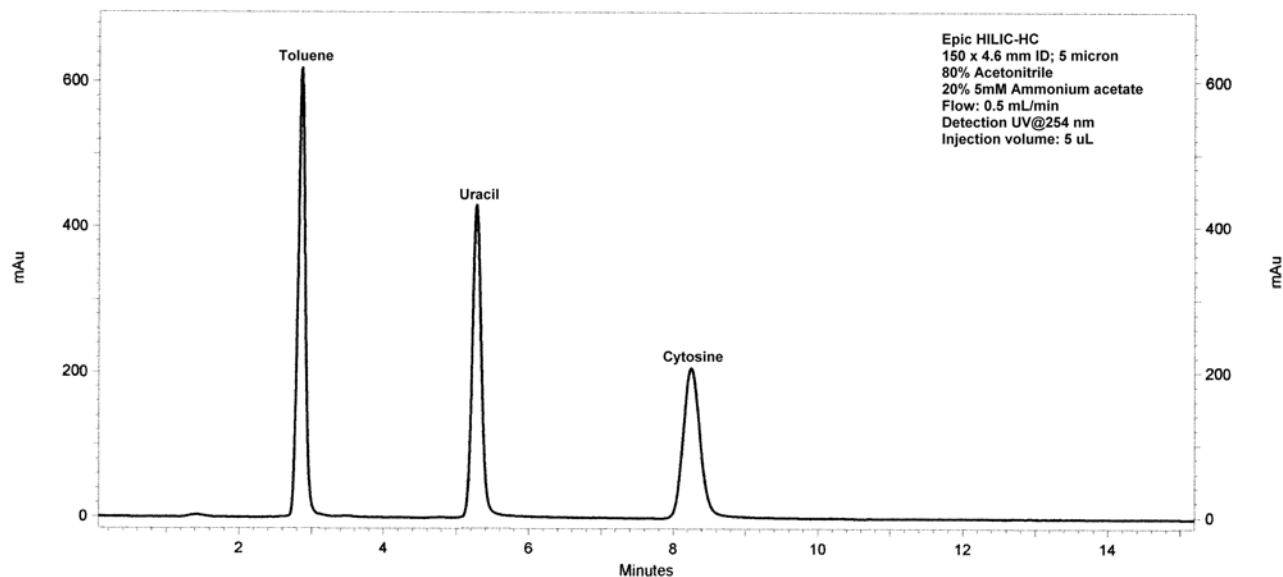
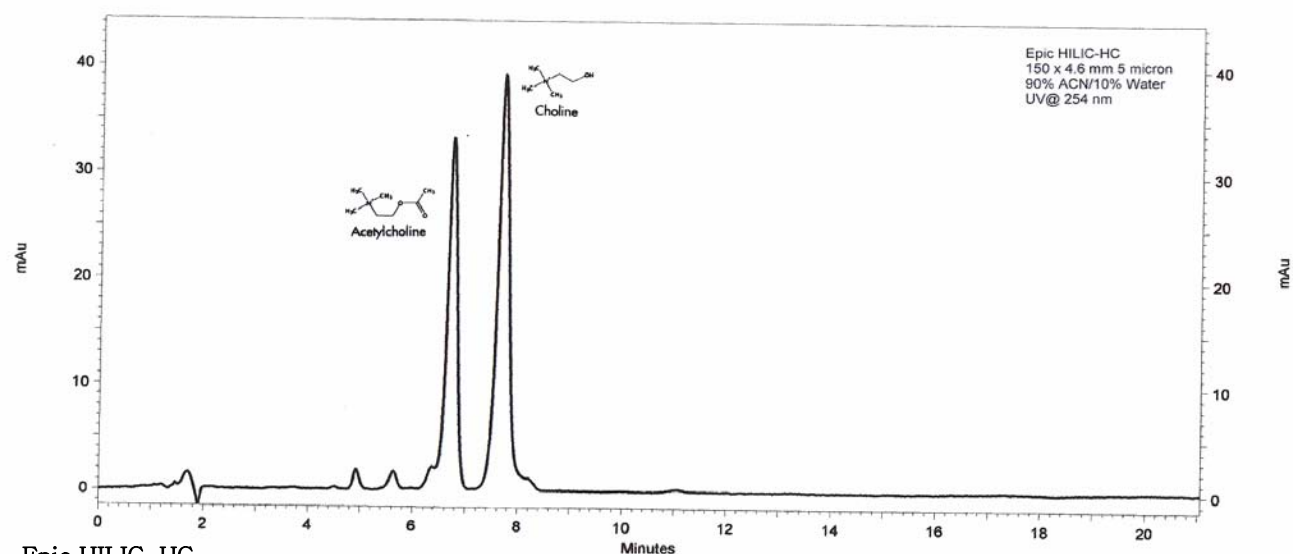
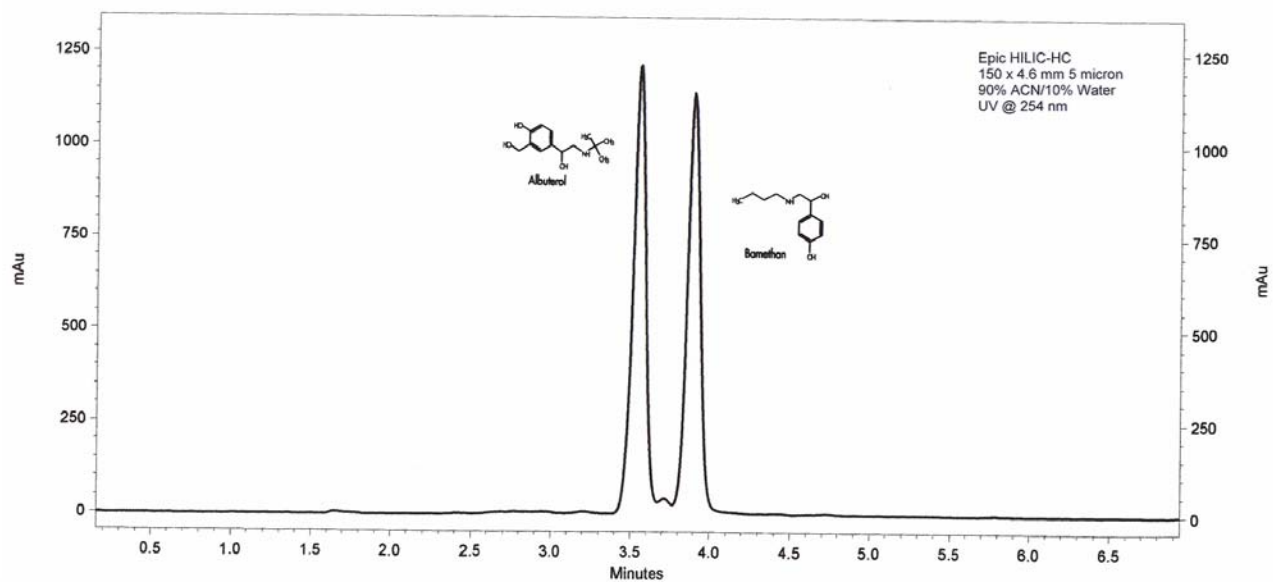


## The Ultimate for Retention and Separation of Polar Compounds – Epic HILIC-HC

Reversed-phase HPLC is widely used for separation of many pharmaceutical compounds. However, retention and separation of many polar analytes has proven to be a challenge. Many of these types of compounds are unretained or poorly retained on most conventional reversed-phase stationary phases, such as ODS. Fortunately, to deal with these types of analytes an alternative mode of chromatography can be utilized using polar stationary phases and highly organic mobile phases. This mode of chromatography has been utilized for many years and is referred to as “hydrophilic interaction chromatography” or HILIC. HILIC chromatography uses mobile phases containing between 5 – 20 % water for the retention of polar compounds.

Epic HILIC-HC (HC for high capacity) is a new stationary phase for HILIC chromatography. It is composed of a polyhydroxylated polymer coated and bound to silica. This composition provides hydroxyl levels that are well above conventional hydroxyl and diol type stationary phases. Many of the commercially stationary phases used for HILIC chromatography are converted normal phase columns. These normal phase columns yield poor methods, poor separations and lack durability. Epic HILIC-HC is specifically designed for HILIC chromatography and can achieve high performance separations, yield rugged methods and deliver long column life times. The chromatogram shown below highlights the unique capability for Epic HILIC-HC, in this chromatogram toluene is less retained than uracil. Uracil has been traditionally used as an unretained marker for the determination of void volume, however with Epic HILIC-HC and an 80% acetonitrile mobile phase uracil can be retained. Other examples of separations performed on Epic HILIC-HC are also shown.





**Epic HILIC-HC**

<i>HILIC-HC</i>	<i>3 micron</i>	<i>4.6mm ID</i>	<i>3.2mm ID</i>	<i>2.1mm ID</i>	<i>Price</i>
	5cm	115191-EHIC	11d191-EHIC	112191-EHIC	\$415.00
	10cm	125191-EHIC	12d191-EHIC	122191-EHIC	\$455.00
	15cm	135191-EHIC	13d191-EHIC	132191-EHIC	\$495.00
<i>HILIC-HC</i>	<i>5 micron</i>	<i>4.6mm ID</i>	<i>3.2mm ID</i>	<i>2.1mm ID</i>	<i>Price</i>
	5cm	115291-EHIC	11d291-EHIC	112291-EHIC	\$390.00
	10cm	125291-EHIC	12d291-EHIC	122291-EHIC	\$415.00
	15cm	135291-EHIC	13d291-EHIC	132291-EHIC	\$455.00
	25cm	155291-EHIC	15d291-EHIC	152291-EHIC	\$495.00

**Chromegabond® Guard Columns**

Part Number	Description	Price
300100	Guard Cartridge Holder	\$90.00
300106	Universal Coupler, .005", PEEK Tube	\$95.00
300101-EHIC	1cm X 3.2mm Guard Cartridges / Pack of 5	\$230.00

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website: [www.esind.com](http://www.esind.com)