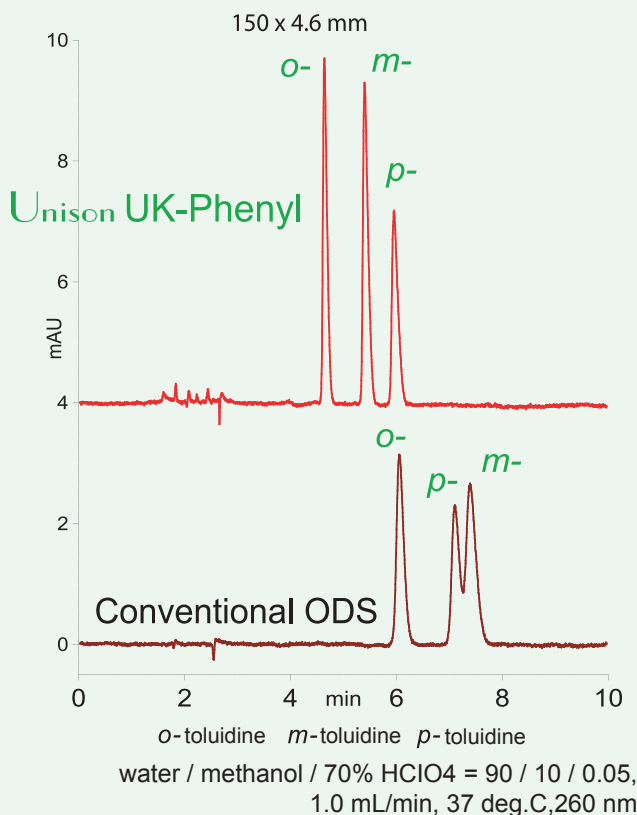


## ● Distinct Selectivity from an ODS Column

● Pi-Pi interaction offer offer unique selectivity

● Better separation of m- and p- isomers than a conventional ODS

● Superior batch to batch reproducibility

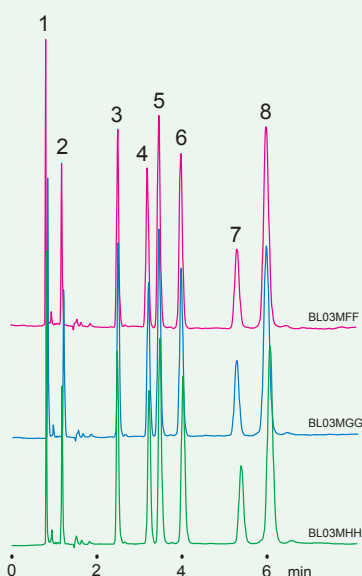


The phenyl stationary phase separates compounds based on the interaction between the phenyl base bonding and pi electrons in the solute.

The chromatogram to the left compares ODS and UK-Phenyl results for toluidine, a regioisomer. The influence of the solute pi electron localization (especially, p-isomers) allows an exceptional separation of m- and p- isomers by UK-Phenyl, something which the ODS column could not accomplish.

Chemical compound structures are becoming increasingly complex in today's chemistry and there are growing needs for separations by interactions other than hydrophobicity. When ODS cannot answer your separation problems, UK-Phenyl can play a productive role in opening new possibilities in the world of separation.

## ● Manufacturing Batch to Batch Reproducibility

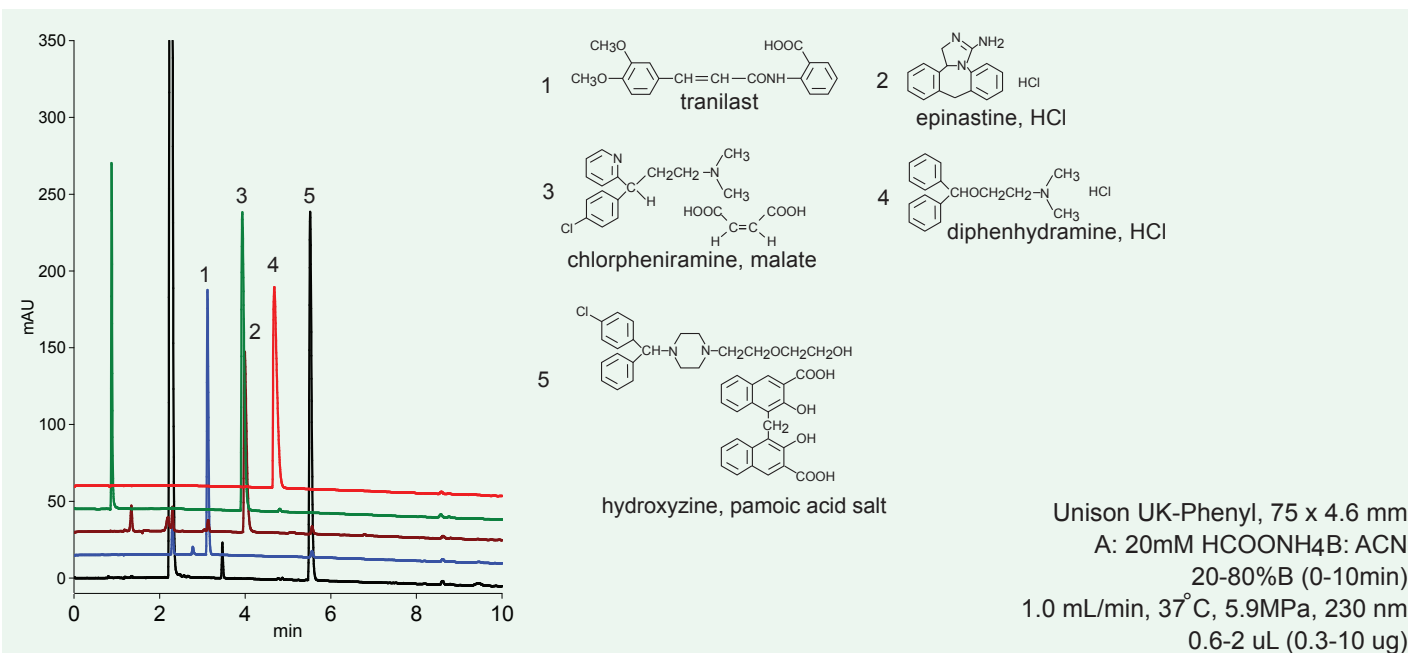


- 1-hydroxy-7-azabenzotriazole
- acetaminophen
- prednisolone
- 6-alpha-methylprednisolone
- methyl 3-amino-2-thiophenecarboxylate
- corticosterone
- 4-aminobenzophenone
- propylparaben

The Unison series packing material is manufactured in a proprietary manner different from conventional methods. This development was completed to not only achieve high efficiency packing material but also to provide high levels of batch-to-batch reproducibility.

Unison UK-Phenyl, 75 x 4.6 mm  
20mM ammonium acetate / ACN = 70/30  
1.0 mL/min, 37°C, 254 nm

## Allergy Medications



## Ordering Information for Unison UK-Phenyl

3µm Columns, Pressure limits of up to: 50MPa, 500 bar, 7,500 psi						3µm 100MPa, 1000 bar, 15,000 psi	
Column Length	ID					Column Length	ID
	1.0 mm	1.5 mm	2.0 mm	3.0 mm	4.6 mm		2.0 mm
10			UKP20T	UKP30T	UKP00T	10	
20			UKP29T	UKP39T	UKP09T	20	
30	UKP11T	UKP71T	UKP21T	UKP31T	UKP01T	30	UKP21U
50	UKP12T	UKP72T	UKP22T	UKP32T	UKP02T	50	UKP22U
75	UKP13T	UKP73T	UKP23T	UKP33T	UKP03T	75	UKP23U
100	UKP14T	UKP74T	UKP24T	UKP34T	UKP04T	100	UKP24U
150	UKP15T	UKP75T	UKP25T	UKP35T	UKP05T	150	UKP25U
250	UKP16T	UKP76T	UKP26T	UKP36T	UKP06T	250	UKP26U

3µm Columns, Pressure limits of up to: 20MPa, 250 bar, 3,000 psi							
Column Length	Internal Diameter						
	1.0 mm	1.5 mm	2.0 mm	3.0 mm	4.6 mm	6.0 mm	10.0 mm
10			UKP20	UKP30	UKP00		
20			UKP29	UKP39	UKP09		
30	UKP11	UKP71	UKP21	UKP31	UKP01	UKP61	UKPP1
50	UKP12	UKP72	UKP22	UKP32	UKP02	UKP62	UKPP2
75	UKP13	UKP73	UKP23	UKP33	UKP03	UKP63	UKPP3
100	UKP14	UKP74	UKP24	UKP34	UKP04	UKP64	UKPP4
150	UKP15	UKP75	UKP25	UKP35	UKP05	UKP65	UKPP5
250	UKP16	UKP76	UKP26	UKP36	UKP06	UKP66	UKPP6
500					UKP07		

Guard Column System for Unison UK-Phenyl							
	Internal Diameter						
	1.0 mm	1.5 mm	2.0 mm	3.0 mm	4.6 mm	6.0 mm	10.0 mm
<b>Guard Holder</b>	GCH01S	GCH01S	GCH01S	GCH01S	GCH01S	GCH01S	GCH02M
<b>Guard Cartridge (Set of 3)</b>	GCUKPC	GCUKPC	GCUKPS	GCUKPS	GCUKPS	GCUKPS	GCUKPM

All of our stationary phases can also be made in the following internal diameters: **Nano:** 0.05mm, 0.075mm  
**Capillary:** 0.1mm, 0.3mm, 0.5mm **Semi-Prep:** 20mm, 28mm