

BPX35

35% MORE INNOVATION

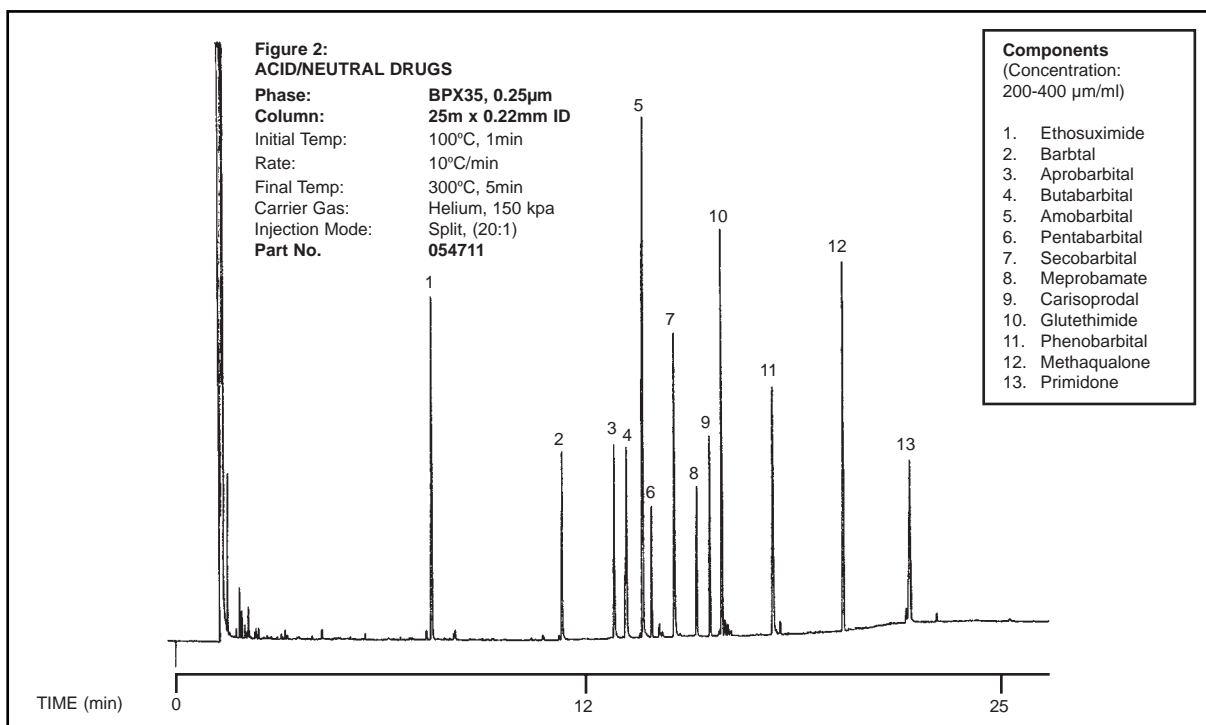
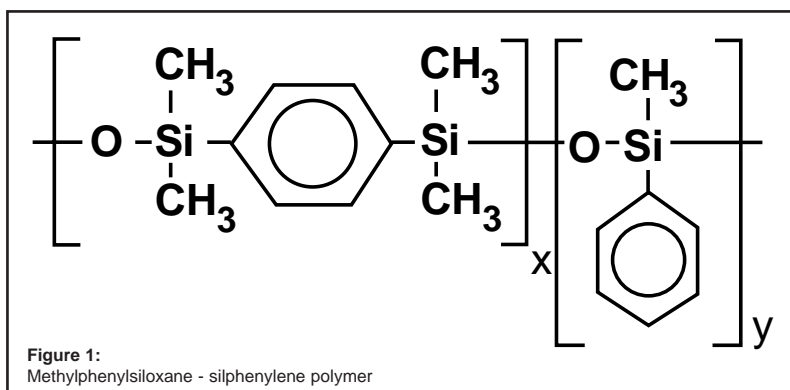
A New Direction in Medium Polarity Stationary Phases

INTRODUCTION

- Suitable for a wide range of applications (pharmaceuticals to herbicides)
- Modified silphenylene siloxane backbone for high thermal stability
- Polarity equivalent to 35% Phenyl polysiloxane
- Low column bleed
- Compatible with all commonly used detector systems

SGE has developed the third in the series of high performance stationary phases which utilise the unique silphenylene modified siloxane backbone. BPX35 is a medium polarity phase which has the equivalent polarity to 35% phenylsiloxane but the thermal stability of a column more commonly used for high temperature petroleum distillations. Improved thermal stability (max. temp. 370°C) and excellent

chemical stability ensure a wide range of applications. With a polarity similar to the liquid phases OV-1701 and OV-11, this phase is well suited for analysing pesticides, herbicides and other environmental sensitive compounds. The high degree of chemical inertness of the BPX35 phase also allows the analysis of a wide range of both acidic and basic compounds common to medical/forensic areas.



PHASE SPECIFICATIONS

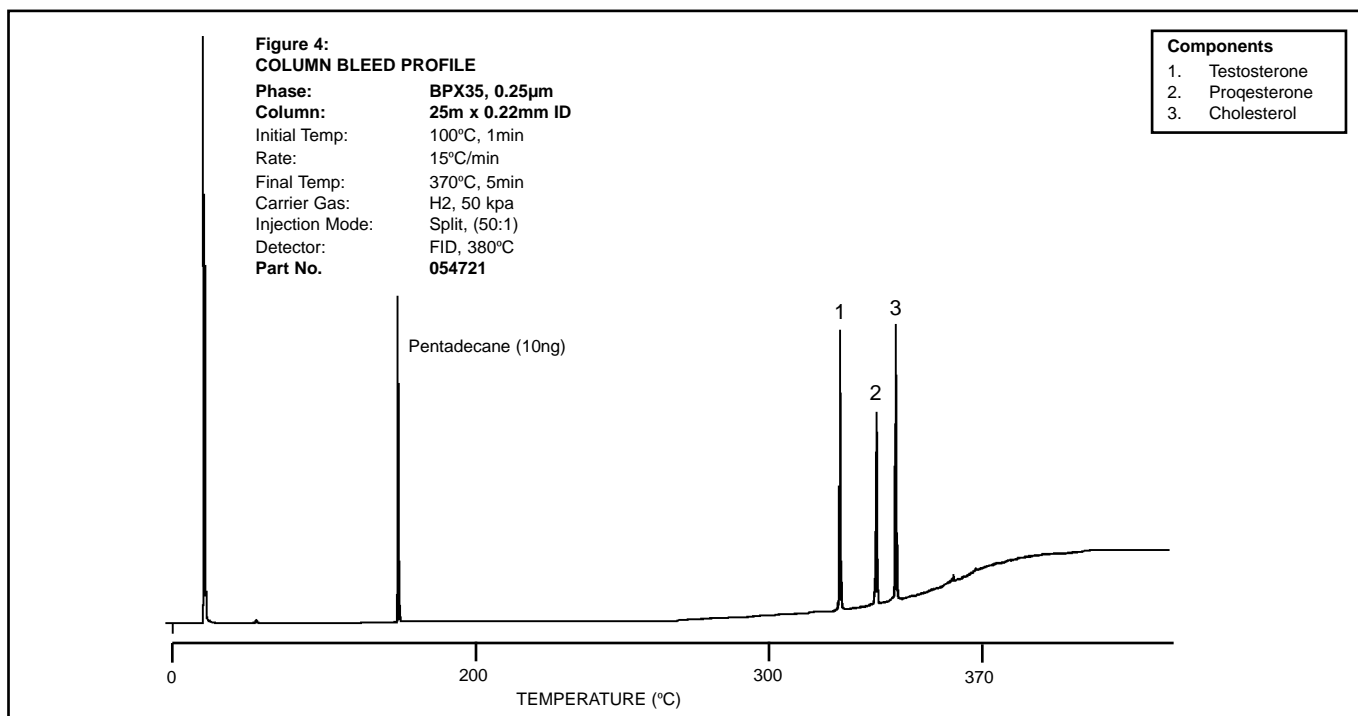
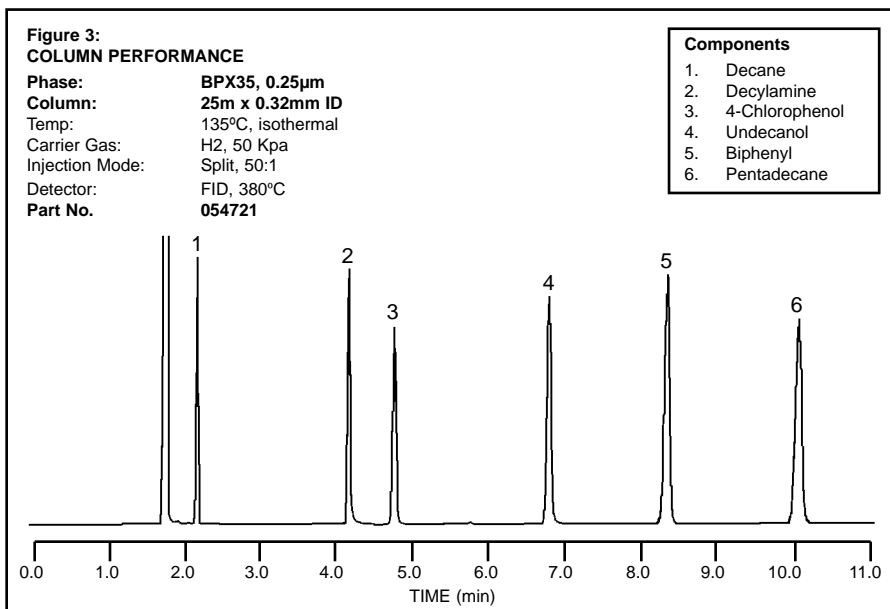
BPX35 is a silphenylene modified methylphenyl polysiloxane stationary phase with an equivalent polarity to 35% phenyl.

Min. Operating Temp.: 0°C
 Max. Continuous Temp.: 360°C
 Max. Cycling Temp.: 370°C

Medium polarity stationary phases are widely used for pharmaceuticals, pesticide and herbicide applications. As many of the compounds encountered in these application areas are often highly functionalised, particularly in the pharmaceutical field, a chemically inert capillary column is essential if quantitative and qualitative information is to be obtained. BPX35 columns are manufactured to meet these, and all other criteria necessary to achieve a high performance column.

All BPX35 columns are individually tested with a range of acidic and basic compounds selected to ensure that the highest levels of chemical inertness is

maintained. The test mixture also contains other components which enable column-column reproducibility to be guaranteed.



The analysis of a wide range of pharmaceuticals and herbicides demonstrates some of the advantages that the BPX35 column has to offer.

Baseline separation of 20 of the 22 herbicides analysed was achieved even

with a temperature program rate of 10°C/min. More than adequate separation for the triazines simazine, atrazine and propazine can be achieved under these conditions.

Having effectively a flat baseline from 80°C to 300°C, detection of nitrogen

and phosphorous containing compounds at low levels using a NPD is assured. Similarly, detection of halogenated insecticides and pesticides by ECD on a BPX35 column would be achieved with the same level of success.

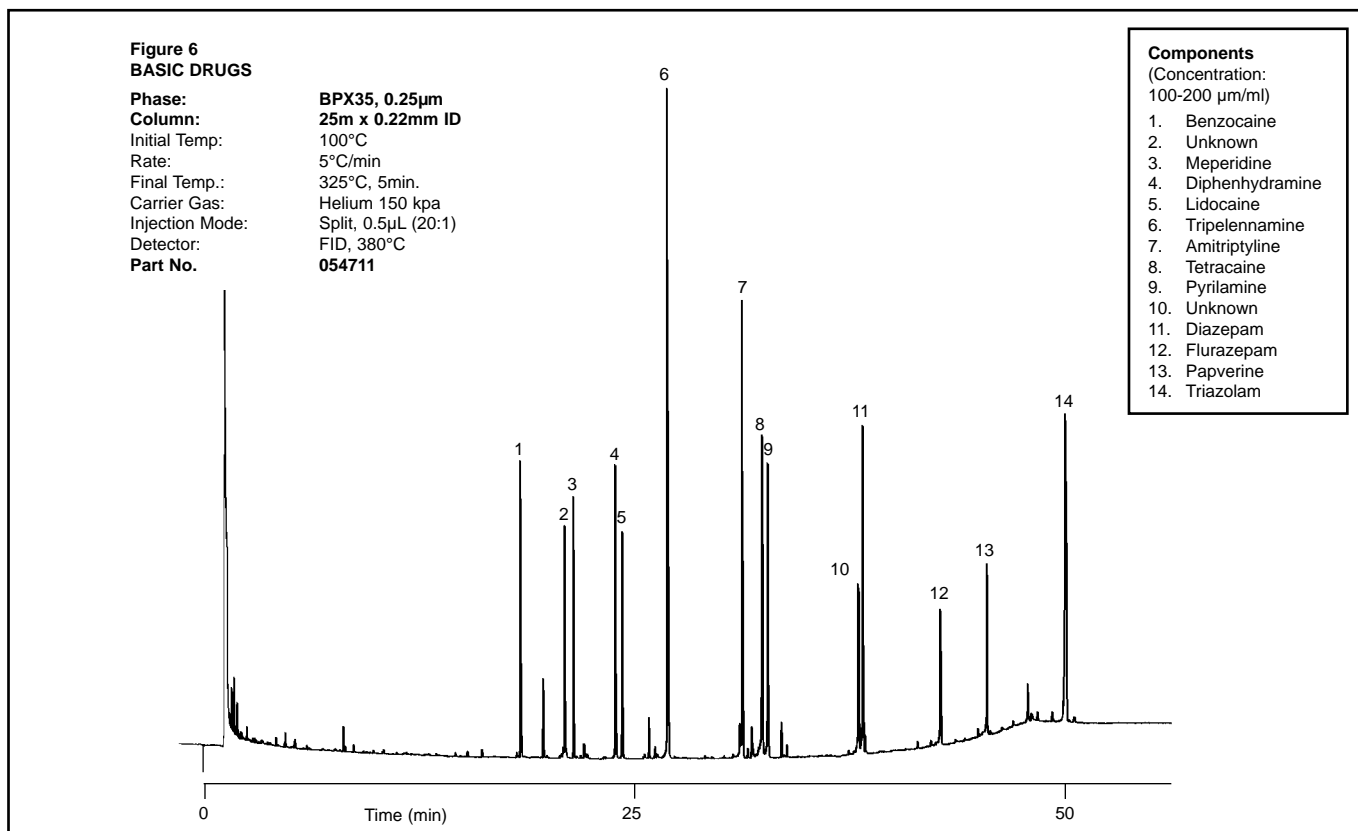
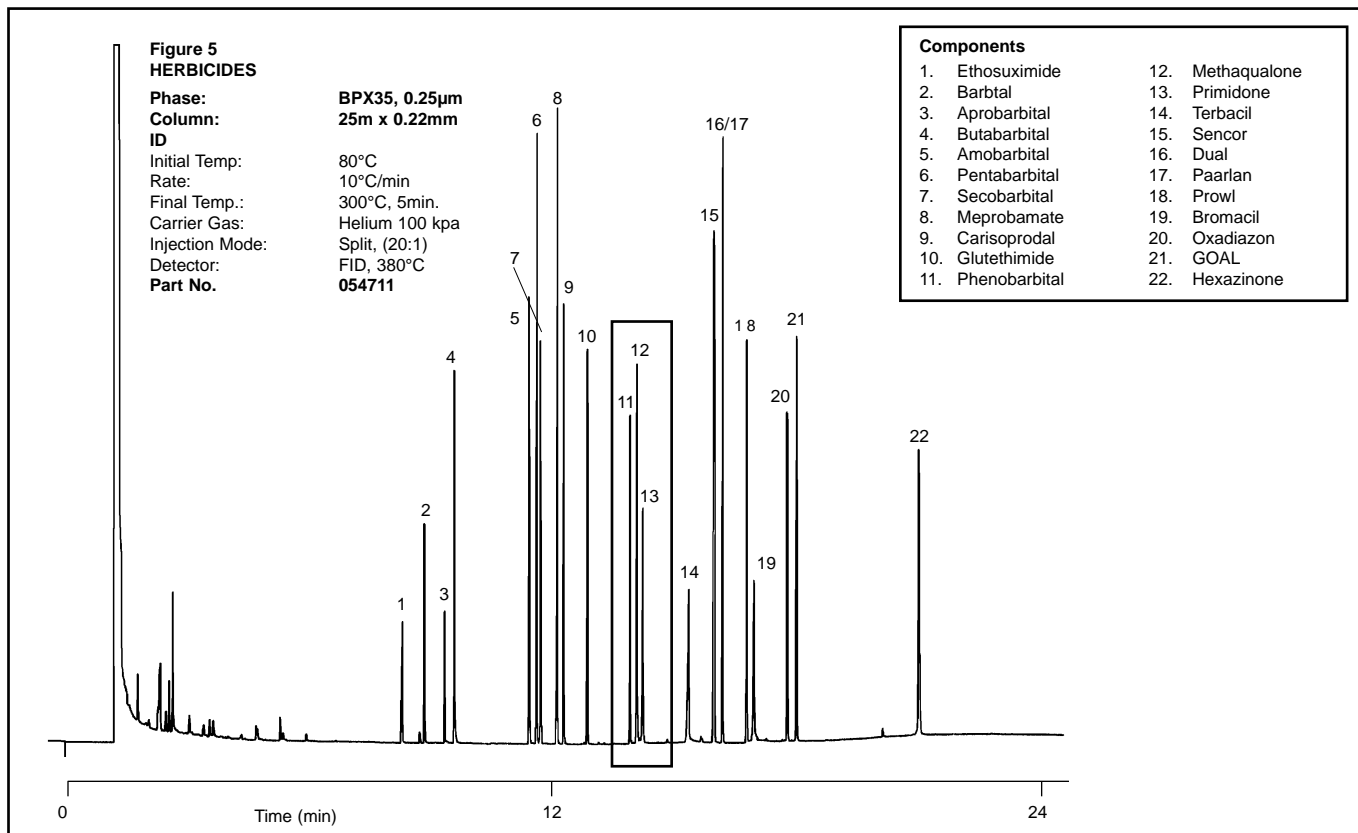
BPX35 IS A SUITABLE REPLACEMENT FOR ALL 35% PHENYL POLYSILOXANE STATIONARY PHASES

SGE	Liquid Phase	J&W	Restek	Altech	Supelco	Quadrex
BPX35	OV-11®	DB™-35	Rtx®-35	AT™-35	SPB™-35	007-11

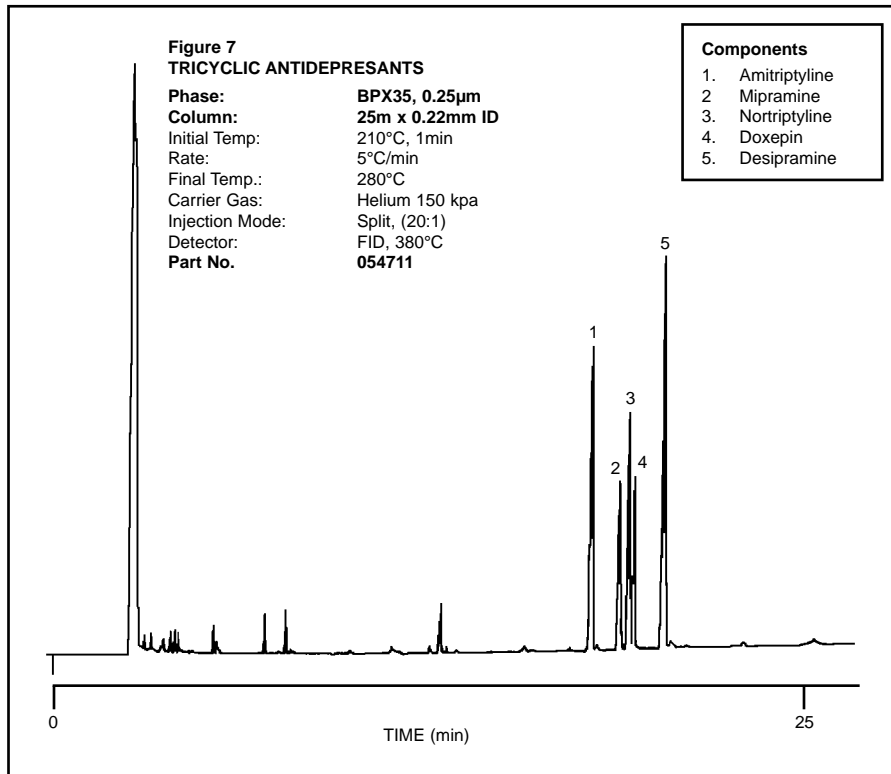
The need for a medium polarity capillary column suitable for pharmaceutical analysis is long overdue. With improved thermal stability

and chemical inertness the BPX35 makes light work of analysing a variety of both acidic and basic drugs. Low column bleed and extended thermal

range of the BPX35 ensures that even trace amounts of a drug can be detected and quantified eluting at either 50°C or 360°C.



BPX35



RECOMMENDED APPLICATION FOR BPX35

- Confirmation column
- Dual Column confirmation (BP1/BPX35, BPX5/BPX35, BP5/BPX35)
- Environmental Sensitive Compounds
 - Herbicides
 - Pesticides
 - Aroclors
- Pharmaceuticals
- PNA's
- Amines (general)
- Alcohols (general)
- Solvents

ORDERING INFORMATION					ORDERING INFORMATION				
ID mm	Film µm	15 metre	30 metre	60 metre	ID mm	Film µm	12 metre	25 metre	50 metre
0.22	0.25	054713	054714	054715	0.22	0.25	054710	054711	054712
0.25	0.25	054700	054701	054701	0.53	0.5	054731	-	-
0.25	0.5	-	0547025	-					
0.25	1.0	054703	054704	054705					
0.32	0.25	054723	054724	054725					
0.32	0.5	-	0547158	-					
0.32	1.0	054716	054717	-					
0.53	0.5	054734	054735	-					
0.53	1.0	054736	054737	-					

Fused silica capillary columns are manufactured under license granted by Hewlett Packard Company. Specifications are subject to change without notice.

Trademarks:

OV - Ohio Valley Speciality Chemical Co.
DB - J & W Scientific
SPB - Supelco Inc.

Rtx - Testek Corp.
AT - Altech



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