



HPLC Columns for Petroleum Products

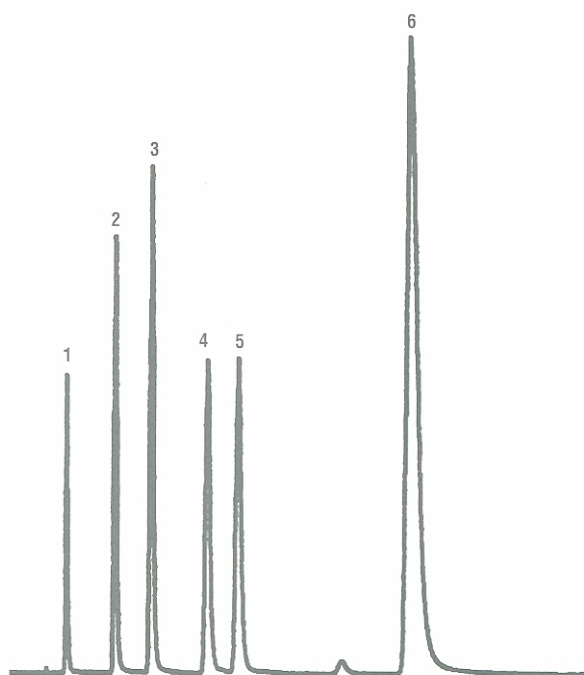
Application News

701 South Route 73 • West Berlin, New Jersey 08091-2621 • (856) 753-8400 • Fax (856) 753-8484

- A wide variety of high quality reverse and normal phase columns
- RingSep for separation of aromatic compounds by ring number
- Silver impregnated silica
- Available in large particle diameters for preparative chromatography.

At ES Industries we have developed several HPLC columns designed specifically to handle complex petroleum samples. These specialty products, along with our complete line of high quality reverse and normal phase products, provide the petroleum chemist with a powerful arsenal to handle difficult applications.

One of the most exciting breakthroughs in HPLC columns for petroleum analysis was the development of the ES Industries RingSep column. The RingSep column was developed specifically for the separation of aromatic compounds by ring number. This column has been optimized to ensure the accurate analysis of aromatic ring distribution. The RingSep column is particularly useful in several areas including petroleum refining, petrochemical production, alkyl aromatic detergent products, and environmental analysis. The RingSep column is also produced in a special version for ASTM Method D5186 for SFC analysis of diesel fuels.



Petroleum Compounds

Column: RingSep 150 x 4.6 mm 5 μ

Eluent: Hexane

Flow rate: 2 mL/min.

Detection: UV @ 254 nm

1. Toluene
2. Naphthalene
3. Fluorene
4. Dibenzothiophene
5. Phenanthrene
6. Pyrene

RingSep™ 5u 60A

	<u>4.6mm (ID)</u>	<u>4.0mm (ID)</u>	<u>3.2mm (ID)</u>	<u>2.1mm (ID)</u>
5cm	115211-RS	114211-RS	11d211-RS	112211-RS
10cm	125211-RS	124211-RS	12d211-RS	122211-RS
15cm	135211-RS	134211-RS	13d211-RS	132211-RS
25cm	155211-RS	154211-RS	15d211-RS	152211-RS

DNAP™ 5u 60A

	<u>4.6mm (ID)</u>	<u>4.0mm (ID)</u>	<u>3.2mm (ID)</u>	<u>2.1mm (ID)</u>
5cm	115211-DNAP	114211-DNAP	11d211-DNAP	112211-DNAP
10cm	125211-DNAP	124211-DNAP	12d211-DNAP	122211-DNAP
15cm	135211-DNAP	134211-DNAP	13d211-DNAP	132211-DNAP
25cm	155211-DNAP	154211-DNAP	15d211-DNAP	152211-DNAP

Silver/Silica 5u 60A

	<u>4.6mm (ID)</u>	<u>4.0mm (ID)</u>	<u>3.2mm (ID)</u>	<u>2.1mm (ID)</u>
5cm	115211-AG/SI	114211-AG/SI	11d211-AG/SI	112211-AG/SI
10cm	125211-AG/SI	124211-AG/SI	12d211-AG/SI	122211-AG/SI
15cm	135211-AG/SI	134211-AG/SI	13d211-AG/SI	132211-AG/SI
25cm	155211-AG/SI	154211-AG/SI	15d211-AG/SI	152211-AG/SI

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