



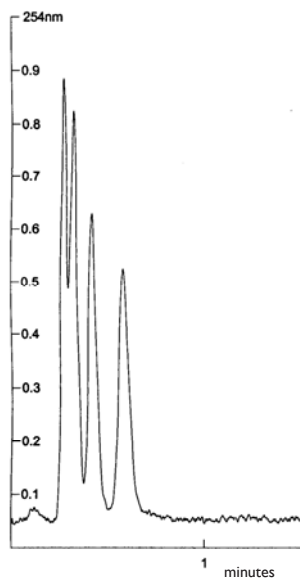
Polymeric Phases in Small Formats

Unique Features:

- pH 1 to 14 operating range
- Uniform hydrophobicity
- Absence of any silanols
- Very high selectivity
- Orthogonality for 2D methods
- Mechanically and chemically robust

Physical Properties:

- PLRP-S
 - Reverse phase media
 - 100Å and 300Å Pore size
 - 3µm particle size
- PL-SAX
 - Strong anion exchanger $-N(CH_3)_3^+$
 - 1000Å Pore size
 - 5µm particle size
- PL-SCX
 - Strong cation exchanger $-SO_3^-$
 - 1000Å Pore size
 - 5µm particle size



High Speed on a 1cm x 1mm PLRP-S:

Polymer Labs PLRP-S 3µm in a Higgins Analytical 10x1mm Piccolo HPLC column P/N:PLP-0101-RP13
(1) Methylparaben, (2) Ethylparaben,
(3) Propylparaben, (4) Butylparaben
50% MeCN/water, 50µL/min

Polymeric

PLRP-S

PL-SAX

PL-SCX

Higgins Analytical now manufactures a wide range of small column and cartridge formats with polymeric phases from Polymer Labs Ltd.

This powerful array of media provides chromatographers with unique solutions for challenging HPLC applications. In addition to not having the pH limitations inherent to all silica-based sorbents, these polymeric phases provide an orthogonal tool for addressing difficult protocols and multi-dimensional techniques. The relatively high capacity and unique selectivity of these robust phases can often provide a separation under harsh conditions that cannot be addressed with popular silica-based columns.

The rigid porous structure and chemical stability of Polymer Labs media make them compatible with the wide range organic solvents typically used in modern HPLC methods. In addition to insuring long mechanical and chemical life times, this robustness also provides an ability for these polymeric phases to be rejuvenated under chemical and thermal conditions that would be unthinkable to subject a conventional HPLC column.

The uniform hydrophobicity and absence of acidic silanols make this family of polymeric phases ideal for many biomolecule separations.

POLYMERIC Cartridge Column Ordering Information

HAICART

PLRP-S 100Å 3µm

Stainless Steel Cartridge Columns

3.2mm I.D. s.s. Cartridges

20x3.2mm 5/pkg

PLF-0232-RP13

PLRP-S 300Å 3µm

3.2mm I.D. s.s. Cartridges

20x3.2mm 5/pkg

PLF-0232-RP33

PL-SAX 1000Å 5µm

3.2mm I.D. s.s. Cartridges

20x3.2mm 5/pkg

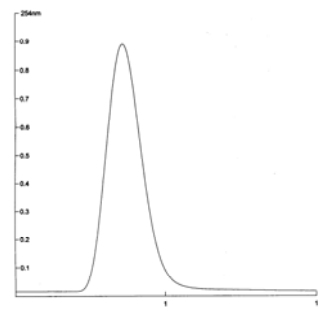
PLF-0232-AXK5

PL-SCX 1000Å 5µm

3.2mm I.D. s.s. Cartridges

20x3.2mm 5/pkg

PLF-0232-CXK5



Symmetrical elution profile of a solute from a 2.5x0.5mm Piccolo used as a trap column:

Polymer Labs PL-SCX 1000Å 5µm

P/N: PLP-M2M5-CXK5

1µL loading of AMP solution eluted at 10µL/min

HAIPEEK

PLRP-S 100Å 3µm

2.1mm I.D. PEEK Cartridges

20x2.1mm 5/pkg 40x2.1mm 2/pkg 50x2.1mm 2/pkg

PLK-0221-RP13 PLK-0421-RP13 PLK-0521-RP13

PLRP-S 300Å 3µm

2.1mm I.D. PEEK Cartridges

20x2.1mm 5/pkg 40x2.1mm 2/pkg 50x2.1mm 2/pkg

PLK-0221-RP33 PLK-0421-RP33 PLK-0521-RP33

PL-SAX 1000Å 5µm

2.1mm I.D. PEEK Cartridges

20x2.1mm 5/pkg 40x2.1mm 2/pkg 50x2.1mm 2/pkg

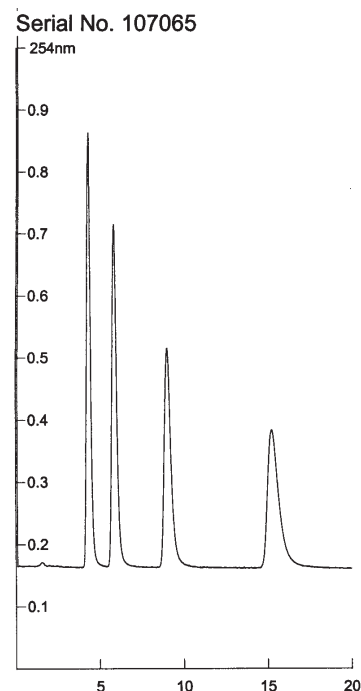
PLK-0221-AXK5 PLK-0421-AXK5 PLK-0521-AXK5

PL-SCX 1000Å 5µm

2.1mm I.D. PEEK Cartridges

20x2.1mm 5/pkg 40x2.1mm 2/pkg 50x2.1mm 2/pkg

PLK-0221-CXK5 PLK-0421-CXK5 PLK-0521-CXK5



Test Chromatogram for a 150x0.3mm PLRP-S 100Å 3µm microbore column:

P/N: PLS-15M3-RP13

(1) Methylparaben, (2) Ethylparaben,

(3) Propylparaben, (4) Butylparaben

50% MeCN/water, 5µL/min



POLYMERIC Column Ordering Information

PLRP-S
PL-SAX
PL-SCX

Microbore Columns

PLRP-S 100Å 3µm

30x1.0mm

PLS-0301-RP13

30x0.5mm

PLS-03M5-RP13

30x0.3mm

PLS-03M3-RP13

1.0mm - 0.5mm - 0.3mm I.D.

50x1.0mm

PLS-0501-RP13

50x0.5mm

PLS-05M5-RP13

50x0.3mm

PLS-05M3-RP13

100x1.0mm

PLS-1001-RP13

100x0.5mm

PLS-10M5-RP13

100x0.3mm

PLS-10M3-RP13

150x1.0mm

PLS-1501-RP13

150x0.5mm

PLS-15M5-RP13

150x0.3mm

PLS-15M3-RP13

250x1.0mm

PLS-2501-RP13

250x1.0mm

PLS-25M5-RP13

250x0.3mm

PLS-25M3-RP13

PLRP-S 300Å 3µm

30x1.0mm

PLS-0301-RP33

30x0.5mm

PLS-03M5-RP33

30x0.3mm

PLS-03M3-RP33

1.0mm - 0.5mm - 0.3mm I.D.

50x1.0mm

PLS-0501-RP33

50x0.5mm

PLS-05M5-RP33

50x0.3mm

PLS-05M3-RP33

100x1.0mm

PLS-1001-RP33

100x0.5mm

PLS-10M5-RP33

100x0.3mm

PLS-10M3-RP33

150x1.0mm

PLS-1501-RP33

150x0.5mm

PLS-15M5-RP33

150x0.3mm

PLS-15M3-RP33

250x1.0mm

PLS-2501-RP33

250x1.0mm

PLS-2501-RP33

250x0.3mm

PLS-25M3-RP33

PL-SAX 1000Å 5µm

30x1.0mm

PLS-0301-AXK5

30x0.5mm

PLS-03M5-AXK5

30x0.3mm

PLS-03M3-AXK5

1.0mm - 0.5mm - 0.3mm I.D.

50x1.0mm

PLS-0501-AXK5

50x0.5mm

PLS-05M5-AXK5

50x0.3mm

PLS-05M3-AXK5

100x1.0mm

PLS-1001-AXK5

150x1.0mm

PLS-1501-AXK5

PL-SCX 1000Å 5µm

30x1.0mm

PLS-0301-CXK5

30x0.5mm

PLS-03M5-CXK5

30x0.3mm

PLS-03M3-CXK5

1.0mm - 0.5mm - 0.3mm I.D.

50x1.0mm

PLS-0501-CXK5

50x0.5mm

PLS-05M5-CXK5

50x0.3mm

PLS-05M3-CXK5

100x1.0mm

PLS-1001-CXK5

150x1.0mm

PLS-1501-CXK5

Capellini

PLRP-S 100Å 3µm

30x0.150mm

PLC-0315-RP13

150 I.D.

50x0.150mm

PLC-0515-RP13

100x0.150mm

PLC-1015-RP13

150x0.150mm

PLC-1515-RP13

250x0.150mm

PLC-2515-RP13

PLRP-S 300Å 3µm

30x0.150mm

PLC-0315-RP33

150 I.D.

50x0.150mm

PLC-0515-RP33

100x0.150mm

PLC-1015-RP33

150x0.150mm

PLC-1515-RP33

250x0.150mm

PLC-2515-RP33

PL-SAX 1000Å 5µm

30x0.150mm

PLC-0315-AXK5

150 I.D.

50x0.150mm

PLC-0515-AXK5

PL-SCX 1000Å 5µm

30x0.150mm

PLC-0315-CXK5

150 I.D.

50x0.150mm

PLC-0515-CXK5

PLRP-S, PL-SAX, and PL-SCS are manufactured by Polymer Labs Ltd. For more information about these polymeric phases and other unique media and services, please refer to www.polymerlabs.com



Sprite
PLRP-S 100Å 3µm

PLRP-S 300Å 3µm

PL-SAX 1000Å 5µm

PL-SCX 1000Å 5µm

Direct Connect Sprite Columns:

- 10x2.1 to 40x2.1mm sizes
- Fast HPLC analysis and ballistic gradients
- LC-MS Applications
- PEEK body and titanium frits
- Individually tested, Certificate of Analysis included

Direct-Connect PEEK/Titanium HPLC Columns

Sprite HPLC Columns

10x2.1mm

PLR-0121-RP13

20x2.1mm

PLR-0221-RP13

40x2.1mm

PLR-0421-RP13

Sprite HPLC Columns

10x2.1mm

PLR-0121-RP33

20x2.1mm

PLR-0221-RP33

40x2.1mm

PLR-0421-RP33

Sprite HPLC Columns

10x2.1mm

PLR-0121-AXK5

20x2.1mm

PLR-0221-AXK5

40x2.1mm

PLR-0421-AXK5

Sprite HPLC Columns

10x2.1mm

PLR-0121-CXK5

20x2.1mm

PLR-0221-CXK5

40x2.1mm

PLR-0421-CXK5



Piccolo
PLRP-S 100Å 3µm

PLRP-S 300Å 3µm

PL-SAX 1000Å 5µm

PL-SCX 1000Å 5µm

Short Piccolo Microbore Columns:

- 10x1.0 mm to 2.5x0.5mm sizes
- Trap column and fast LC-MS applications
- PEEK/titanium design
- 6-32 threads for capillary fittings
- Individually tested, Certificate of Analysis included

Short PEEK Microbore Columns with Titanium Frits

Piccolo HPLC Columns

2.5x0.5mm

PLP-M2M5-RP13

5x1.0mm

PLP-M501-RP13

10x1.0mm

PLP-0101-RP13

Piccolo HPLC Columns

2.5x0.5mm

PLP-M2M5-RP33

5x1.0mm

PLP-M501-RP33

10x1.0mm

PLP-0101-RP33

Piccolo HPLC Columns

2.5x0.5mm

PLP-M2M5-AXK5

5x1.0mm

PLP-M501-AXK5

10x1.0mm

PLP-0101-AXK5

Piccolo HPLC Columns

2.5x0.5mm

PLP-M2M5-CXK5

5x1.0mm

PLP-M501-CXK5

10x1.0mm

PLP-0101-CXK5



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