HPLC and LC-MS Columns

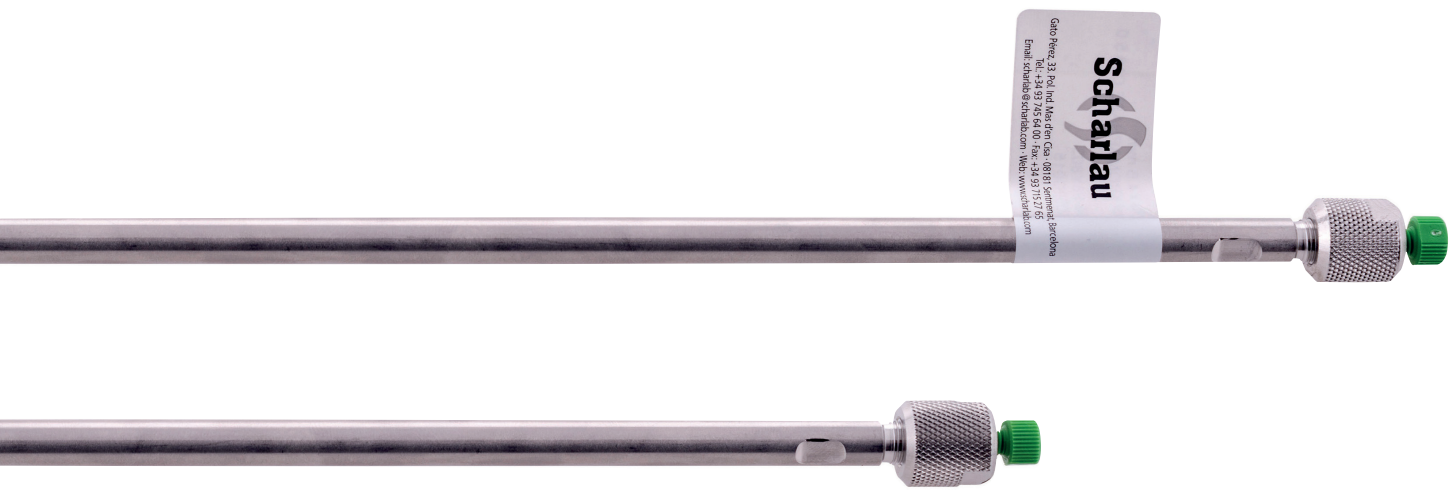
HPLC and LC-MS Scharlau columns KromaPhase

The Scharlau chromatography portfolio was born more than 40 year ago with Scharlau KromaPhase HPLC Columns. Since then, customers in different sectors like Pharmaceutical Labs, Research Centres, Universities, Independent Labs, etc., have been using Scharlau columns for their reliability and reproducibility.

Each column is tested after manufacture for efficiency, capacity, selectivity and peak symmetry. The results of this test are shown in the Test Chromatogram, which is attached with each column.

Scharlau KromaPhase HPLC columns offer a wide range of possibilities. More than 500 columns and pre-columns are available, offering an extensive experience in semi-preparative and preparative columns.
The columns are packed from 2 mm to 50 mm I.D., 2 mm columns for LC-MS, and also in the standard columns of 4 and 4.6 mm I.D.

KromaPhase columns are based on ultrapure high-quality spherical silica that provides high reproducibility and chemical stability using monofunctional silanes and total end-capping. Different stationary phases are available. KromaPhase solves the vast majority of analytical problems.



Scharlau HPLC columns kromaphase

KromaPhase specifications C18:
USP Code: L1
Particle sizes: 3.5 / 5 / 10 µm
Pore size: 100 Å
Surface Area: 300 m^2/g
pH range: 1 to 10
Carbon Load: 20%
Pore volume: 0.8 ml/g
Particle size distribution (D10/D90): <1.6

KromaPhase specifications C8:
USP Code: L7
Particle sizes: 3.5 / 5 / 10 µm
Pore size: 100 Å
Surface Area: 300 m^2/g
pH range: 2 to 9
Carbon Load: 12%
Pore volume: 0.8 ml/g
Particle size distribution (D10/D90): <1.6

KromaPhase specifications SIL:
USP Code: L3
Particle sizes: 3.5 / 5 / 10 µm
Pore size: 100 Å
Surface Area: 300 m^2/g
pH range: 1 to 8
Pore volume: 0.8 ml/g
Particle size distribution (D10/D90): <1.6

KromaPhase specifications NH_2:
USP Code: L8
Particle sizes: 5 / 10 µm
Pore size: 100 Å
Surface Area: 300 m^2/g
pH range: 2 to 8
Carbon Load: 4.5%
Pore volume: 0.8 ml/g
Particle size distribution (D10/D90): <1.6

KromaPhase specifications C4:
USP Code: L26
Particle sizes: 5 / 10 µm
Pore size: 100 Å
Surface Area: 300 m^2/g
pH range: 2 to 8
Carbon Load: 8%
Pore volume: 0.8 ml/g
Particle size distribution (D10/D90): <1.6

KromaPhase Columns 2 mm I.D.

Phase	Particle size (µm)	Pore size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C4	5	100	50	2	1	070B35Y817
C4	5	100	100	2	1	070B36Y817
C4	5	100	125	2	1	070B39Y817
C4	5	100	150	2	1	070B40Y817
C4	5	100	250	2	1	070B43Y817
C8	3.5	100	50	2	1	070B35Y809
C8	3.5	100	100	2	1	070B36Y809
C8	3.5	100	125	2	1	070B39Y809
C8	3.5	100	150	2	1	070B40Y809
C8	3.5	100	250	2	1	070B43Y809
C8	5	100	50	2	1	070B35Y802
C8	5	100	100	2	1	070B36Y802
C8	5	100	125	2	1	070B39Y802
C8	5	100	150	2	1	070B40Y802
C8	5	100	250	2	1	070B43Y802
C18	3	100	100	2	1	070B36Y812
C18	3.5	100	50	2	1	070B35Y811
C18	3.5	100	100	2	1	070B36Y811
C18	3.5	100	125	2	1	070B39Y811
C18	3.5	100	150	2	1	070B40Y811
C18	3.5	100	250	2	1	070B43Y811

Phase	Particle size (µm)	Pore size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C18	5	100	50	2	1	070B35Y803
C18	5	100	100	2	1	070B36Y803
C18	5	100	125	2	1	070B39Y803
C18	5	100	150	2	1	070B40Y803
C18	5	100	250	2	1	070B43Y803
NH2	5	100	50	2	1	070B35Y807
NH2	5	100	100	2	1	070B36Y807
NH2	5	100	125	2	1	070B39Y807
NH2	5	100	150	2	1	070B40Y807
NH2	5	100	250	2	1	070B43Y807
SIL	3.5	100	50	2	1	070B35Y814
SIL	3.5	100	100	2	1	070B36Y814
SIL	3.5	100	125	2	1	070B39Y814
SIL	3.5	100	150	2	1	070B40Y814
SIL	3.5	100	250	2	1	070B43Y814
SIL	5	100	50	2	1	070B35Y801
SIL	5	100	100	2	1	070B36Y801
SIL	5	100	125	2	1	070B39Y801
SIL	5	100	150	2	1	070B40Y801
SIL	5	100	250	2	1	070B43Y801

KromaPhase Columns 3 mm I.D.

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C4	5	100	50	3	1	070B58Y817
C4	5	100	100	3	1	070B52Y817
C4	5	100	125	3	1	070B56Y817
C4	5	100	150	3	1	070B53Y817
C4	5	100	250	3	1	070B54Y817
C8	3.5	100	50	3	1	070B58Y809
C8	3.5	100	100	3	1	070B52Y809
C8	3.5	100	125	3	1	070B56Y809
C8	3.5	100	150	3	1	070B53Y809
C8	3.5	100	250	3	1	070B54Y809
C8	5	100	50	3	1	070B58Y802
C8	5	100	100	3	1	070B52Y802
C8	5	100	125	3	1	070B56Y802
C8	5	100	150	3	1	070B53Y802
C8	5	100	250	3	1	070B54Y802
C18	3.5	100	50	3	1	070B58Y811
C18	3.5	100	100	3	1	070B52Y811
C18	3.5	100	125	3	1	070B56Y811
C18	3.5	100	150	3	1	070B53Y811
C18	3.5	100	250	3	1	070B54Y811

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C18	5	100	50	3	1	070B58Y803
C18	5	100	100	3	1	070B52Y803
C18	5	100	125	3	1	070B56Y803
C18	5	100	150	3	1	070B53Y803
C18	5	100	250	3	1	070B54Y803
NH2	5	100	50	3	1	070B58Y807
NH2	5	100	100	3	1	070B52Y807
NH2	5	100	125	3	1	070B56Y807
NH2	5	100	150	3	1	070B53Y807
NH2	5	100	250	3	1	070B54Y807
SIL	3.5	100	50	3	1	070B58Y814
SIL	3.5	100	100	3	1	070B52Y814
SIL	3.5	100	125	3	1	070B56Y814
SIL	3.5	100	150	3	1	070B53Y814
SIL	3.5	100	250	3	1	070B54Y814
SIL	5	100	50	3	1	070B58Y801
SIL	5	100	100	3	1	070B52Y801
SIL	5	100	125	3	1	070B56Y801
SIL	5	100	150	3	1	070B53Y801
SIL	5	100	250	3	1	070B54Y801

KromaPhase Columns 4 mm I.D.

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C4	5	100	50	4	1	070-B3Y817
C4	5	100	100	4	1	070-B1Y817
C4	5	100	125	4	1	070-B7Y817
C4	5	100	150	4	1	070-B2Y817
C4	5	100	250	4	1	070-B6Y817
C8	3.5	100	50	4	1	070-B3Y809
C8	3.5	100	100	4	1	070-B1Y809
C8	3.5	100	125	4	1	070-B7Y809
C8	3.5	100	150	4	1	070-B2Y809
C8	3.5	100	250	4	1	070-B6Y809
C8	5	100	50	4	1	070-B3Y802
C8	5	100	100	4	1	070-B1Y802
C8	5	100	125	4	1	070-B7Y802
C8	5	100	150	4	1	070-B2Y802
C8	5	100	250	4	1	070-B6Y802
C8	10	100	50	4	1	070-B3Y804
C8	10	100	100	4	1	070-B1Y804
C8	10	100	125	4	1	070-B7Y804
C8	10	100	150	4	1	070-B2Y804
C8	10	100	250	4	1	070-B6Y804
C18	3.5	100	50	4	1	070-B3Y811
C18	3.5	100	100	4	1	070-B1Y811
C18	3.5	100	125	4	1	070-B7Y811
C18	3.5	100	150	4	1	070-B2Y811
C18	3.5	100	250	4	1	070-B6Y811
C18	5	100	30	4	1	070-B9Y803
C18	5	100	50	4	1	070-B3Y803
C18	5	100	100	4	1	070-B1Y803
C18	5	100	125	4	1	070-B7Y803
C18	5	100	150	4	1	070-B2Y803

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C18	5	100	200	4	1	070-B5Y803
C18	5	100	250	4	1	070-B6Y803
C18	5	100	300	4	1	070-B4Y803
C18	10	100	50	4	1	070-B3Y805
C18	10	100	100	4	1	070-B1Y805
C18	10	100	125	4	1	070-B7Y805
C18	10	100	150	4	1	070-B2Y805
C18	10	100	250	4	1	070-B6Y805
C18	10	100	300	4	1	070-B4Y805
NH2	5	100	50	4	1	070-B3Y807
NH2	5	100	100	4	1	070-B1Y807
NH2	5	100	125	4	1	070-B7Y807
NH2	5	100	150	4	1	070-B2Y807
NH2	5	100	250	4	1	070-B6Y807
SIL	3.5	100	50	4	1	070-B3Y814
SIL	3.5	100	100	4	1	070-B1Y814
SIL	3.5	100	125	4	1	070-B7Y814
SIL	3.5	100	150	4	1	070-B2Y814
SIL	3.5	100	250	4	1	070-B6Y814
SIL	5	100	50	4	1	070-B3Y801
SIL	5	100	100	4	1	070-B1Y801
SIL	5	100	125	4	1	070-B7Y801
SIL	5	100	150	4	1	070-B2Y801
SIL	5	100	250	4	1	070-B6Y801
SIL	10	100	50	4	1	070-B3Y810
SIL	10	100	100	4	1	070-B1Y810
SIL	10	100	125	4	1	070-B7Y810
SIL	10	100	150	4	1	070-B2Y810
SIL	10	100	250	4	1	070-B6Y810

KromaPhase Columns 4,6 mm I.D.

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C4	5	100	50	4,6	1	066-B3Y817
C4	5	100	100	4,6	1	066-B1Y817
C4	5	100	125	4,6	1	066-B7Y817
C4	5	100	150	4,6	1	066-B2Y817
C4	5	100	250	4,6	1	066-B6Y817
C8	3.5	100	50	4,6	1	066-B3Y809
C8	3.5	100	100	4,6	1	066-B1Y809
C8	3.5	100	125	4,6	1	066-B7Y809
C8	3.5	100	150	4,6	1	066-B2Y809
C8	3.5	100	250	4,6	1	066-B6Y809
C8	5	100	50	4,6	1	066-B3Y802
C8	5	100	75	4,6	1	066-BXY802
C8	5	100	100	4,6	1	066-B1Y802
C8	5	100	125	4,6	1	066-B7Y802
C8	5	100	150	4,6	1	066-B2Y802
C8	5	100	250	4,6	1	066-B6Y802
C8	10	100	50	4,6	1	066-B3Y804
C8	10	100	100	4,6	1	066-B1Y804
C8	10	100	125	4,6	1	066-B7Y804
C8	10	100	150	4,6	1	066-B2Y804
C8	10	100	250	4,6	1	066-B6Y804
C18	3	100	150	4,6	1	066-B2Y812
C18	3	100	250	4,6	1	066-B6Y812
C18	3.5	100	50	4,6	1	066-B3Y811
C18	3.5	100	75	4,6	1	066-BXY811
C18	3.5	100	100	4,6	1	066-B1Y811
C18	3.5	100	125	4,6	1	066-B7Y811
C18	3.5	100	150	4,6	1	066-B2Y811
C18	3.5	100	250	4,6	1	066-B6Y811
C18	5	100	50	4,6	1	066-B3Y803

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C18	5	100	75	4,6	1	066-BXY803
C18	5	100	100	4,6	1	066-B1Y803
C18	5	100	125	4,6	1	066-B7Y803
C18	5	100	150	4,6	1	066-B2Y803
C18	5	100	250	4,6	1	066-B6Y803
C18	10	100	50	4,6	1	066-B3Y805
C18	10	100	100	4,6	1	066-B1Y805
C18	10	100	125	4,6	1	066-B7Y805
C18	10	100	150	4,6	1	066-B2Y805
C18	10	100	250	4,6	1	066-B6Y805
NH2	5	100	50	4,6	1	066-B3Y807
NH2	5	100	100	4,6	1	066-B1Y807
NH2	5	100	125	4,6	1	066-B7Y807
NH2	5	100	150	4,6	1	066-B2Y807
NH2	5	100	250	4,6	1	066-B6Y807
SIL	3.5	100	50	4,6	1	066-B3Y814
SIL	3.5	100	100	4,6	1	066-B1Y814
SIL	3.5	100	125	4,6	1	066-B7Y814
SIL	3.5	100	150	4,6	1	066-B2Y814
SIL	3.5	100	250	4,6	1	066-B6Y814
SIL	5	100	50	4,6	1	066-B3Y801
SIL	5	100	100	4,6	1	066-B1Y801
SIL	5	100	125	4,6	1	066-B7Y801
SIL	5	100	150	4,6	1	066-B2Y801
SIL	5	100	250	4,6	1	066-B6Y801
SIL	10	100	50	4,6	1	066-B3Y810
SIL	10	100	100	4,6	1	066-B1Y810
SIL	10	100	125	4,6	1	066-B7Y810
SIL	10	100	150	4,6	1	066-B2Y810
SIL	10	100	250	4,6	1	066-B6Y810

KromaPhase Columns 8 mm I.D.

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C4	5	100	100	8	1	070B32Y817
C4	5	100	150	8	1	070B22Y817
C4	5	100	250	8	1	070B23Y817
C8	5	100	100	8	1	070B32Y802
C8	5	100	150	8	1	070B22Y802
C8	5	100	250	8	1	070B23Y802
C8	10	100	100	8	1	070B32Y804
C8	10	100	150	8	1	070B22Y804
C8	10	100	250	8	1	070B23Y804
C18	5	100	100	8	1	070B32Y803
C18	5	100	150	8	1	070B22Y803
C18	5	100	250	8	1	070B23Y803

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C18	10	100	100	8	1	070B32Y805
C18	10	100	150	8	1	070B22Y805
C18	10	100	250	8	1	070B23Y805
NH2	5	100	100	8	1	070B32Y807
NH2	5	100	150	8	1	070B22Y807
NH2	5	100	250	8	1	070B23Y807
SIL	5	100	100	8	1	070B32Y801
SIL	5	100	150	8	1	070B22Y801
SIL	5	100	250	8	1	070B23Y801
SIL	10	100	100	8	1	070B32Y810
SIL	10	100	150	8	1	070B22Y810
SIL	10	100	250	8	1	070B23Y810

KromaPhase Columns 10 mm I.D.

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C18	5	100	250	10	1	070B73Y803

KromaPhase Columns 16 mm I.D.

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C4	5	100	150	16	1	070B44Y817
C4	5	100	250	16	1	070B27Y817
C8	5	100	150	16	1	070B44Y802
C8	5	100	250	16	1	070B27Y802
C8	10	100	150	16	1	070B44Y804
C8	10	100	250	16	1	070B27Y804
C18	5	100	150	16	1	070B44Y803
C18	5	100	250	16	1	070B27Y803

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C18	10	100	150	16	1	070B44Y805
C18	10	100	250	16	1	070B27Y805
NH2	5	100	150	16	1	070B44Y807
NH2	5	100	250	16	1	070B27Y807
SIL	5	100	150	16	1	070B44Y801
SIL	5	100	250	16	1	070B27Y801
SIL	10	100	150	16	1	070B44Y810
SIL	10	100	250	16	1	070B27Y810

KromaPhase Columns 20 mm I.D.

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C4	5	100	150	20	1	070B11Y817
C4	5	100	250	20	1	070B10Y817
C8	5	100	150	20	1	070B11Y802
C8	5	100	250	20	1	070B10Y802
C8	10	100	150	20	1	070B11Y804
C8	10	100	250	20	1	070B10Y804
C18	5	100	150	20	1	070B11Y803
C18	5	100	250	20	1	070B10Y803

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C18	10	100	150	20	1	070B11Y805
C18	10	100	250	20	1	070B10Y805
NH2	5	100	150	20	1	070B11Y807
NH2	5	100	250	20	1	070B10Y807
SIL	5	100	150	20	1	070B11Y801
SIL	5	100	250	20	1	070B10Y801
SIL	10	100	150	20	1	070B11Y810
SIL	10	100	250	20	1	070B10Y810

Scharlau pre-columns for HPLC KromaPhase

KromaPhase guard columns, column type. No holder is required.

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C4	5	100	30	2	1	070B1PY817
C4	5	100	30	3	1	070B4PY817
C4	5	100	30	4	1	070B9PY817
C4	5	100	30	8	1	070B2PY817
C4	5	100	30	16	1	070B3PY817
C4	5	100	30	20	1	070B5PY817
C8	3.5	100	30	2	1	070B1PY809
C8	3.5	100	30	3	1	070B4PY809
C8	3.5	100	30	4	1	070B9PY809
C8	5	100	30	2	1	070B1PY802
C8	5	100	30	3	1	070B4PY802
C8	5	100	30	4	1	070B9PY802
C8	5	100	30	8	1	070B2PY802
C8	5	100	30	16	1	070B3PY802
C8	5	100	30	20	1	070B5PY802
C8	10	100	30	4	1	070B9PY804
C8	10	100	30	8	1	070B2PY804
C8	10	100	30	16	1	070B3PY804
C8	10	100	30	20	1	070B5PY804
C18	3	100	30	2	1	070B1PY812
C18	3	100	30	4	1	070B9PY812
C18	3.5	100	30	2	1	070B1PY811
C18	3.5	100	30	3	1	070B4PY811
C18	3.5	100	30	4	1	070B9PY811
C18	5	100	30	2	1	070B1PY803
C18	5	100	30	3	1	070B4PY803
C18	5	100	30	4	1	070B9PY803

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C18	5	100	30	8	1	070B2PY803
C18	5	100	30	16	1	070B3PY803
C18	5	100	30	20	1	070B5PY803
C18	10	100	30	4	1	070B9PY805
C18	10	100	30	8	1	070B2PY805
C18	10	100	30	16	1	070B3PY805
C18	10	100	30	20	1	070B5PY805
NH2	5	100	30	2	1	070B1PY807
NH2	5	100	30	3	1	070B4PY807
NH2	5	100	30	4	1	070B9PY807
NH2	5	100	30	8	1	070B2PY807
NH2	5	100	30	16	1	070B3PY807
NH2	5	100	30	20	1	070B5PY807
SIL	3.5	100	30	2	1	070B1PY814
SIL	3.5	100	30	3	1	070B4PY814
SIL	3.5	100	30	4	1	070B9PY814
SIL	5	100	30	2	1	070B1PY801
SIL	5	100	30	3	1	070B4PY801
SIL	5	100	30	4	1	070B9PY801
SIL	5	100	30	8	1	070B2PY801
SIL	5	100	30	16	1	070B3PY801
SIL	5	100	30	20	1	070B5PY801
SIL	10	100	30	4	1	070B9PY810
SIL	10	100	30	8	1	070B2PY810
SIL	10	100	30	16	1	070B3PY810
SIL	10	100	30	20	1	070B5PY810

Holder for guard columns, cartridge type.

Description	Pack (u.)	ART. NO.
Holder for guard columns, cartridge type	1	070HOLDER2

KromaPhase guard columns, cartridge type.

Holder is required, Art. No. 070HOLDER2

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C4	5	100	10	4	5	070-BGY817
C8	3.5	100	10	4	5	070-BGY809
C8	5	100	10	4	5	070-BGY802
C8	10	100	10	4	5	070-BGY804
C18	3.5	100	10	4	5	070-BGY811
C18	5	100	10	4	5	070-BGY803

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Inner Ø (mm)	Pack (u.)	ART. NO.
C18	10	100	10	4	5	070-BGY805
NH2	5	100	10	4	5	070-BGY807
SIL	3.5	100	10	4	5	070-BGY814
SIL	5	100	10	4	5	070-BGY801
SIL	10	100	10	4	5	070-BGY810

Scharlau's HPLC portfolio is completed with the necessary consumables in liquid chromatography techniques:

- **SPE Extrabond®**
- **Syringe Filters**
- **Vials and caps**
- **TLC plates**

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