



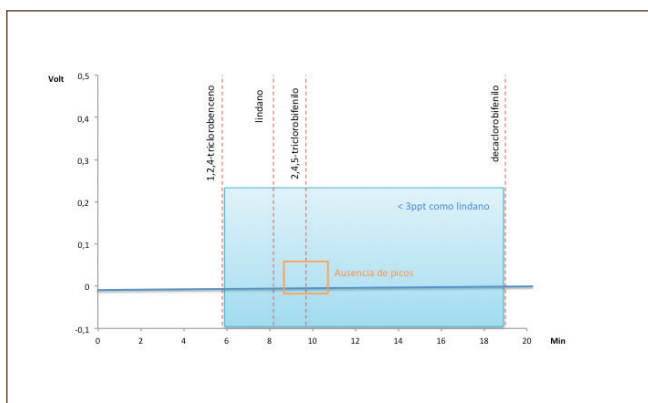
Pesticide Analysis



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Solvents for sample preparation for GC residue analysis

SCHARLAU



Usual analytical conditions: Column: 100% DMS 15 m x 0.25 mm x 0.25 µm; Oven Temp.: 40 °C - 265 °C at 25 °C/min; Injector Temp.: 250 °C; Detector Temp. (ECD): 300 °C; Concentrated sample 1000 x.

Key benefits

Highly purified solvents:

Suitable for the extraction and concentration procedures used in the preparation of samples in pesticides or environmental analysis.

In these processes both the residue sample and any other impurities contained in the solvent itself are concentrated. Therefore, this type of analysis requires extraordinarily pure solvents.

This grade is appropriate for low, medium and high boiling point residue analysis: organochlorinated, dioxin, furan and PCB.

Strict quality control:

GC-ECD test: Absence of peaks greater than 3 ppt (expressed as lindane) from 1,2,4-trichlorobenzene to decachlorobiphenyl. Absence of peaks in vicinity of 2,4,5-trichlorobiphenyl.

›  Check product TDS to review the exact specification of a particular solvent.

DESCRIPTION	PACKAGING	ART. NO.
Acetone, for GC residue analysis	1 l	AC03081000
	2,5 l	AC03082500
Acetonitrile, for GC residue analysis, suitable for QuEChERS	1 l	AC03381000
	2,5 l	AC03382500
tert-Butyl methyl ether, for GC residue analysis	1 l	ME05531000
	2,5 l	ME05532500
Chloroform, for GC residue analysis, stabilized with ethanol	1 l	CL02081000
	2,5 l	CL02082500
Cyclohexane, for GC residue analysis	1 l	CI00351000
	2,5 l	CI00352500
Dichloromethane, for GC residue analysis, stabilized with approx. 50 ppm of amylene	1 l	CL03451000
	2,5 l	CL03452500
Dichloromethane, for GC residue analysis, stabilized with ethanol	1 l	CL03401000
	2,5 l	CL03402500
N,N-Dimethylformamide, for GC residue analysis	1 l	DI10681000
	2,5 l	DI10682500
Ethyl acetate, for GC residue analysis	1 l	AC01481000
	2,5 l	AC01482500
	4 l	AC01484000
n-Hexane, 96%, for GC residue analysis	1 l	HE02381000
	2,5 l	HE02382500
	4 l	HE02384000
Hexane, fraction from petroleum, for GC residue analysis	1 l	HE02231000
	2,5 l	HE02232500
Methanol, for GC residue analysis	1 l	ME03181000
	2,5 l	ME03182500
	4 l	ME03184000
n-Pentane, 99%, for GC residue analysis	1 l	PE00991000
	2,5 l	PE00992500
Petroleum ether, boiling range 40 - 60 °C, for GC residue analysis	1 l	ET00981000
	2,5 l	ET00982500
2-Propanol, for GC residue analysis	1 l	AL03191000
	2,5 l	AL03192500
Toluene, for GC residue analysis	1 l	TO00811000
	2,5 l	TO00812500
2,2,4-Trimethylpentane, for GC residue analysis	1 l	IS01571000
	2,5 l	IS01572500
	4 l	IS01574000

Solvents for sample preparation for GC Ultra-trace analysis

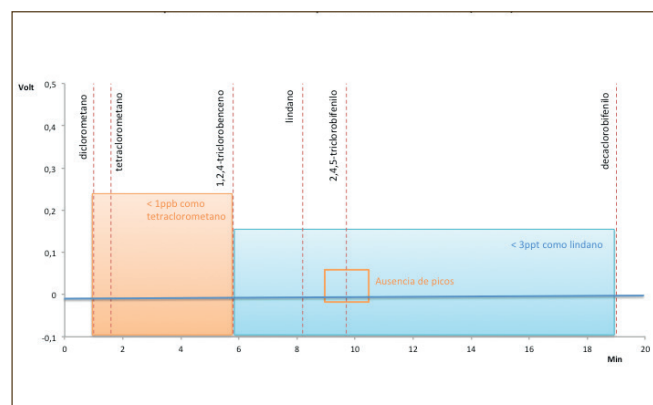
SCHARLAU

Key benefits

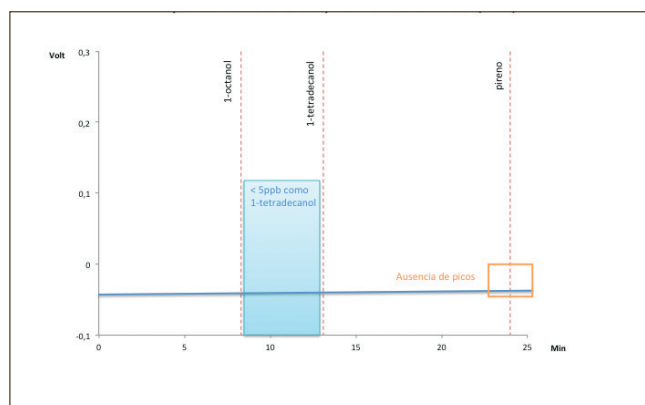
Highly purified solvents:

Developed for organic residue extraction/concentration procedures applied in environmental sample analysis. These solvents are additionally tested for their suitability for high volatile halogenated hydrocarbons and polyaromatic hydrocarbons analysis.

Strict quality control:



Usual analytical conditions: Column: 100% DMS 15 m x 0.25 mm x 0.25 µm; Oven Temp.: 40 °C - 265 °C at 25 °C/min; Injector Temp.: 250 °C; Detector Temp. (ECD): 300 °C; Concentrated sample 1000 x.



Usual analytical conditions: Column: 100% DMS 50 m x 0.32 mm x 1.2 µm; Oven Temp.: 50 °C - 250 °C at 25 °C/min; Injector Temp.: 300 °C; Detector Temp. (FID): 300 °C.

Extended GC-ECD test: Absence of peaks greater than 1 ppb of highly volatile impurities, expressed as tetrachloromethane, from dichloromethane to 1,2,4-trichlorobenzene. This grade also guarantees the absence of peaks of over 2-3 ppt (expressed as lindane), from low, medium and high boiling points substances from 1,2,4-trichlorobenzene to decachlorobiphenyl. It also ensures the absence of peaks in the area where peaks relating to 2,4,5-trichlorobiphenyl are found.

GC-FID test: Guarantees the absence of peaks of over 2-5 ppb (expressed as 1-tetradecanol) from 1-octanol to 1-tetradecanol. It also ensures the absence of peaks in the vicinity of pyrene.

›  Check product TDS to review the exact specification of a particular solvent.

DESCRIPTION	PACKAGING	ART. NO.
Acetone, GC ultra-trace analysis grade	1 l	AC03091000
	2,5 l	AC03092500
Cyclohexane, GC ultra-trace analysis grade	1 l	CI00361000
	2,5 l	CI00362500
Dichloromethane, GC ultra-trace analysis grade, stabilized with ethanol	1 l	CL03411000
	2,5 l	CL03412500
Ethyl acetate, GC ultra-trace analysis grade	1 l	AC01491000
	2,5 l	AC01492500
n-Hexane, 96%, GC ultra-trace analysis grade	1 l	HE02391000
	2,5 l	HE02392500
	4 l	HE02394000
Methanol, GC ultra-trace analysis grade	1 l	ME03191000
	2,5 l	ME03192500
n-Pentane, 99%, GC ultra-trace analysis grade	1 l	PE01001000
	2,5 l	PE01002500
Petroleum ether, boiling range 40 - 60 °C, GC ultra-trace analysis grade	1 l	ET00991000
	2,5 l	ET00992500
Toluene, GC ultra-trace analysis grade	1 l	TO00821000
	2,5 l	TO00822500

Reagents for sample preparation and analysis

SCHARLAU

Key benefits

Scharlab's Reagent grade corresponds to high quality chemicals for laboratory and specialized industrial use. These analytical reagents are in most cases labelled ISO ACS to indicate that their specifications comply with those of the International Organisation for Standards and the American Chemical Society.

Scharlab's extra pure grade comprises products suitable for qualitative and semi-quantitative work. The purity specifications are usually less strict than those of the reagent grade but are significantly higher than industrial products.

TYPE	DESCRIPTION	PACKAGING	ART. NO.
ABSORBENTS AND DESSICANTS	Aluminium oxide activated, acid, for column chromatography (activity degree 1)	1 kg	AL08361000
		5 kg	AL0836005P
	Aluminium oxide activated, basic, for column chromatography (activity degree 1)	1 kg	AL08371000
		5 kg	AL0837005P
	Aluminium oxide activated, neutral, for column chromatography (activity degree 1)	1 kg	AL08351000
		2,5 kg	AL08352500
		5 kg	AL0835005P
	Charcoal activated, powder, extra pure	250 g	CA03510250
		500 g	CA03510500
		1 kg	CA03511000
	Charcoal graphitized, 120 - 400 mesh	5 kg	CA0351005P
		100 g	CA03530100
	Magnesium sulfate anhydrous, extra pure	500 g	CA03530500
		1 kg	CA03531000
	Magnesium sulfate anhydrous, suitable for QuEChERS	500 g	MA00800500
		1 kg	MA00801000
		5 kg	MA0080005P
	Silica gel 60, 0.06 - 0.2 mm, for column chromatography (70 - 230 mesh ASTM)	25 kg	MA0080025P
		25 kg	MA0081025P
	di-Sodium hydrogen citrate 1,5-hydrate, reagent grade, Reag. Ph Eu	1 kg	GE00491000
5 kg		GE0049005P	
Sodium sulfate anhydrous, for GC residue analysis	1 kg	SO03491000	
	5 kg	SO0349005P	
Acetic acid glacial, reagent grade, ACS, ISO, Reag. Ph Eur	1 kg	SO06701000	
	2,5 kg	SO06702500	
Formic acid, 98 - 100%, reagent grade, ACS, Reag. Ph Eur	5 kg	SO0670005P	
	1 l	AC03441000	
Hydrochloric acid, 37%, reagent grade, ACS, ISO, Reag. Ph Eur	2,5 l	AC03442500	
	5 l	AC0344005P	
ortho-Phosphoric acid, 85%, reagent grade, ACS, ISO, Reag. Ph Eur	25 l	AC0344025P	
	1 l	AC10851000	
Sulfuric acid, 95 - 97%, reagent grade, ISO	2,5 l	AC10852500	
	5 l	AC1085005P	
Sulfuric acid, 96% ± 0.1%, reagent grade	25 l	AC1085025P	
	1 l	AC07411000	
Hydrochloric acid, 37%, reagent grade, ACS, ISO, Reag. Ph Eur	2,5 l	AC07412500	
	5 l	AC0741005P	
ortho-Phosphoric acid, 85%, reagent grade, ACS, ISO, Reag. Ph Eur	25 l	AC0741025P	
	1 l	AC11001000	
Sulfuric acid, 95 - 97%, reagent grade, ISO	2,5 l	AC11002500	
	25 l	AC1100025P	
Sulfuric acid, 96% ± 0.1%, reagent grade	1 l	AC20691000	
	2,5 l	AC20692500	
Sulfuric acid, 96% ± 0.1%, reagent grade	1 l	AC20711000	
	2,5 l	AC20712500	

Reagents for sample preparation and analysis (continued)

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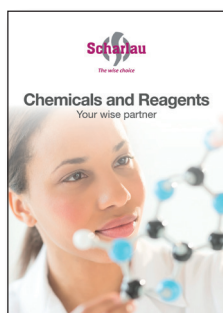
TYPE	DESCRIPTION	PACKAGING	ART. NO.
OTHER SOLVENTS	Diethanolamine, extra pure, Pharmapur®, NF	250 ml	DI04720250
		1 l	DI04721000
		5 l	DI0472005P
		25 l	DI0472025P
	Diethylamine, reagent grade, ACS, Reag. Ph Eur	250 ml	DI04860250
		1 l	DI04861000
	Triethanolamine, extra pure, Pharmapur®, Ph Eur, NF	25 l	DI0486025P
		1 l	TR02021000
	Water, reagent grade	25 l	TR0202025P
		1 l	AG00021000
		2,5 l	AG00022500
		5 l	AG0002005P
10 l		AG0002010C	
25 l		AG0002025P	
REAGENTS	Ammonia, solution 32% w/w, extra pure	1 l	AM02511000
		2,5 l	AM02512500
	Ammonium chloride, reagent grade, ACS, ISO, Reag. Ph Eur	250 g	AM02730250
		500 g	AM02730500
		1 kg	AM02731000
		5 kg	AM0273005P
	Copper(II) acetate monohydrate, reagent grade, ACS, Reag. Ph Eur	250 g	CO00950250
		500 g	CO00950500
		1 kg	CO00951000
		5 kg	CO0095005P
	Copper(II) sulfate pentahydrate, reagent grade, ACS, ISO, Reag. Ph Eur	25 kg	CO0095025P
		500 g	CO01010500
1 kg		CO01011000	
5 kg		CO0101005P	
Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, reagent grade, ACS, Reag. Ph Eur	25 kg	CO0101025P	
	100 g	AC09650100	
	250 g	AC09650250	
	500 g	AC09650500	
Lead(II) acetate trihydrate, reagent grade, ACS, ISO, Reag. Ph Eur	1 kg	AC09651000	
	5 kg	AC0965005P	
	500 g	PL01150500	
	1 kg	PL01151000	
Potassium dihydrogen phosphate, reagent grade, ACS, ISO, Reag. Ph Eur	5 kg	PL0115005P	
	250 g	PO02600250	
	500 g	PO02600500	
	1 kg	PO02601000	
Potassium hydroxide, pellets, reagent grade, ACS, ISO, Reag. Ph Eur	5 kg	PO0260005P	
	25 kg	PO0260025P	
	500 g	PO02750500	
	1 kg	PO02751000	
Sodium acetate anhydrous, reagent grade, ACS, Reag. Ph Eur	5 kg	PO0275005P	
	25 kg	PO0275025P	
	250 g	SO00350250	
	500 g	SO00350500	
Sodium carbonate anhydrous, reagent grade, ACS, ISO, Reag. Ph Eur	1 kg	SO00351000	
	5 kg	SO0035005P	
	500 g	SO01160500	
	1 kg	SO01161000	
	5 kg	SO0116005P	
	25 kg	SO0116025P	

Reagents for sample preparation and analysis (continued)
SCHARLAU

TYPE	DESCRIPTION	PACKAGING	ART. NO.
		500 g	SO02270500
		1 kg	SO02271000
	Sodium chloride, reagent grade, ACS, ISO, Reag. Ph Eur	5 kg	SO0227005P
		25 kg	SO0227025P
	Sodium chloride, saturated solution	1 l	SO02331000
		250 g	SO02000250
	tri-Sodium citrate dihydrate, reagent grade, ACS, ISO, Reag. Ph Eur	500 g	SO02000500
		5 kg	SO0200005P
		25 kg	SO0200025P
		500 g	SO01310500
		1 kg	SO01311000
	Sodium hydrogen carbonate, reagent grade, ACS, ISO, Reag. Ph Eur	5 kg	SO0131005P
		25 kg	SO0131025P
		500 g	SO04250500
REAGENTS		1 kg	SO04251000
	Sodium hydroxide, pellets, reagent grade, ACS, ISO, Reag. Ph Eur	5 kg	SO0425005P
		25 kg	SO0425025P
		1 l	SO04221000
		5 l	SO0422005P
	Sodium hydroxide, solution 40% w/v, extra pure	10 l	SO0422010C
		25 l	SO0422025P
		250 g	SO07070250
	di-Sodium tetraborate decahydrate, reagent grade, ACS, ISO	500 g	SO07070500
		1 kg	SO07071000
		5 kg	SO0707005P
		500 g	SO07250500
		1 kg	SO07251000
	Sodium thiosulfate pentahydrate, extra pure, Pharmapur®, Ph Eur, BP, USP	5 kg	SO0725005P
		25 kg	SO0725025P

Scharlau Chemicals and Reagents

Your wise partner



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Solvents and mobile phase modifiers for HPLC analysis SCHARLAU

Key benefits

Our solvents undergo highly efficient distillation, solid phase absorption and other chemical treatments, which eliminate impurities that could interfere in HPLC analysis, achieving the appropriate purity to be used as mobile phases in HPLC in analytical and preparative separations.

Our solvents are microfiltered and packed in amber-coloured bottles, which are sealed with a PTFE membrane in the cap to avoid possible contamination.

> [i Access our full product portfolio for HPLC at scharlab.com.](https://www.scharlab.com)

DESCRIPTION	PACKAGING	ART. NO.
Acetic acid glacial, HPLC grade	1 l	AC03461000
	2,5 l	AC03462500
Acetonitrile, Multisolvent® HPLC grade ACS UV-VIS, Reag. Ph Eur	1 l	AC03331000
	2,5 l	AC03332500
	4 l	AC03334000
Acetonitrile, supragradient HPLC grade	1 l	AC03311000
	2,5 l	AC03312500
	4 l	AC03314000
Ethanol absolute, gradient HPLC grade	1 l	ET00101000
	2,5 l	ET00102500
Hexane, 99%, HPLC grade	1 l	HE02421000
	2,5 l	HE02422500
	4 l	HE02424000
Methanol, Multisolvent® HPLC grade ACS ISO UV-VIS K.F.	1 l	ME03151000
	2,5 l	ME03152500
	4 l	ME03154000
	1 l	ME03061000
Methanol, supragradient HPLC grade	2,5 l	ME03062500
	4 l	ME03064000
	1 l	AL03151000
2-Propanol, gradient HPLC grade	2,5 l	AL03152500
	4 l	AL03154000
2-Propanol, Multisolvent® HPLC grade ACS ISO UV -VIS	1 l	AL03211000
	2,5 l	AL03212500
	4 l	AL03214000
Tetrahydrofuran, HPLC grade, without stabilizer	1 l	TE02251000
	2,5 l	TE02252500
	4 l	TE02254000
Water, gradient HPLC grade	1 l	AG00011000
	2,5 l	AG00012500
	4 l	AG00014000

Solvents and blends for LC-MS and UHPLC-MS analysis

SCHARLAU

Key benefits

LC-MS solvents must be free from impurities that could give rise to ions that add to the background noise and cause interference in the spectrum. Scharlau's LC-MS grade solvents are designed with particularly low content (<100 ppb) of alkaline metals, especially potassium and sodium and are microfiltered through a 0.1 µm filter to avoid any presence of solid particles.

Scharlau's UHPLC grade solvents show low organic impurity content, minimal alkali metal impurities, absence of particles (microfiltered through 0.1 µm), low mass spectrometry background noise and are tested by LC-MS.

UHPLC-MS test ESI+ max. 5 ppb Reserpine; UHPLC-MS test ESI- max. 20 ppb Digoxine.

>  Access our full product portfolio for HPLC at scharlab.com.

TYPE	DESCRIPTION	PACKAGING	ART. NO.
LC-MS	Acetonitrile with 0.1% formic acid, LC-MS	1 l	AC03731000
	Acetonitrile, LC-MS	1 l	AC03711000
		2,5 l	AC03712500
	Ethyl acetate, LC-MS	1 l	AC01581000
		2,5 l	AC01582500
	Methanol, LC-MS	1 l	ME03261000
		2,5 l	ME03262500
	2-Propanol, LC-MS	1 l	AL03261000
		2,5 l	AL03262500
	Water with 0.1% formic acid, LC-MS	1 l	AG00081000
Water with 0.1% trifluoroacetic acid, LC-MS	1 l	AG00071000	
Water, LC-MS	1 l	AG00061000	
	2,5 l	AG00062500	
UHPLC-MS	Acetonitrile, UHPLC-MS	1 l	AC03911000
		2,5 l	AC03912500
	Methanol, UHPLC-MS	1 l	ME03341000
		2,5 l	ME03342500
	Water, UHPLC-MS	1 l	AG00151000
		2,5 l	AG00152500

Scharlau solvents for UHPLC-MS and LC-MS

The right purity for an excellent result

- Greater sensitivity
- Longer column life
- Spectra identification becomes simpler
- More efficiency in the formation of molecular ions
- Savings in equipment maintenance costs
- Guarantee of a product controlled by LC-MS or UHPLC-MS



Organic Standards



The wise choice

Organic standard solutions and mixtures



- ✓ Ready-to-use
- ✓ Delivered with a certificate of analysis
- ✓ Save in preparation time
- ✓ Reduce stock of solid standards
- ✓ Laboratory accredited ISO 17025 by ANAB
- ✓ Mixes according to ASTM, EN, EPA and ISO regulations available



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Pesticide mix



The wise choice

Pesticide mix according to European Regulation 400/2014

- ✓ 200 compounds
- ✓ Concentration 10 µg/ml in acetonitrile (10ppm)
- ✓ For LC-MS and GC-MS



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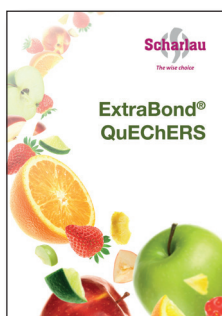


ExtraBond® Quechers SCHARLAU

Scharlab offers extraction and dispersive kits according to European (EN 15662) and American (AOAC 2007.01) methods, as well as a variant of the European method, EN-A. The use of Scharlab variant EN-A, which contains a smaller amount of salts mixture, allows using the suitable quantity of aliquot and salts to optimize the analysis.

- Extraction kits in sachets.
- Dispersive kits in 15 ml tubes.
- Art. No. and batch number imprinted on each sachet and tube for greater traceability.

DESCRIPTION	PACK	METHOD	PACK (U.)	ART. NO.
ExtraBond® QuEChERS Extraction kit EN. 1 g sodium citrate, 0.5 g sodium hydrogencitrate ses., 4 g MgSO ₄ , 1 g NaCl	Sachets	EN 15662	50	QUEXTENAK1
ExtraBond® QuEChERS Extraction kit EN. 1 g sodium citrate, 0.5 g sodium hydrogencitrate ses., 4 g MgSO ₄ , 1 g NaCl	Tubes	EN 15662	50	QUEXTENBK1
ExtraBond® QuEChERS Extraction kit AOAC 6 g MgSO ₄ , 1,5 g sodium acetate	Sachets	AOAC 2007.01	50	QUEXTAOAK1
ExtraBond® QuEChERS Extraction kit Original 10g 4 g MgSO ₄ , 1 g NaCl	Sachets	Original 10	50	QUEXTORAK1
ExtraBond® QuEChERS Extraction kit for acrylamides 4 g MgSO ₄ , 0.5 g NaCl	Sachets	-	50	QUEXTORAK1
ExtraBond® QuEChERS dispersive kit EN-A for general fruits and vegetables 100 mg PSA, 600 mg MgSO ₄	Tubes 15 ml	EN-A Variant	50	QUDISENAK2
ExtraBond® QuEChERS dispersive kit EN for general fruits and vegetables 150 mg PSA, 900 mg MgSO ₄	Tubes 15 ml	EN 15662	50	QUDISENNK2
ExtraBond® QuEChERS dispersive kit AOAC for general fruits and vegetables 400 mg PSA, 1200 mg MgSO ₄	Tubes 15 ml	AOAC 2007.01	50	QUDISAONK2
ExtraBond® QuEChERS dispersive kit EN-A for fruits and vegetables with fats and waxes 100 mg PSA, 600 mg MgSO ₄ , 10 mg C18	Tubes 15 ml	EN-A Variant	50	QUDISENCK2
ExtraBond® QuEChERS dispersive kit EN for fruits and vegetables with fats and waxes 150 mg PSA, 900 mg MgSO ₄ , 150 mg C18	Tubes 15 ml	EN 15662	50	QUDISENFK2
ExtraBond® QuEChERS dispersive kit AOAC for fruits and vegetables with fats and waxes 400 mg PSA, 1200 mg MgSO ₄ , 400 mg C18	Tubes 15 ml	AOAC 2007.01	50	QUDISAOFK2
ExtraBond® QuEChERS dispersive kit EN for pigmented fruits and vegetables 150 mg PSA, 885 mg MgSO ₄ , 15 mg GCB	Tubes 15 ml	EN 15662	50	QUDISENPK2
ExtraBond® QuEChERS dispersive kit AOAC for pigmented fruits and vegetables 400 mg PSA, 1200 mg MgSO ₄ , 400 mg GCB	Tubes 15 ml	AOAC 2007.01	50	QUDISAOPK2
ExtraBond® QuEChERS dispersive kit EN for highly pigmented fruits and vegetables 150 mg PSA, 885 mg MgSO ₄ , 45 mg GCB	Tubes 15 ml	EN 15662	50	QUDISENHK2
ExtraBond® QuEChERS dispersive kit AOAC for pigmented fruits and vegetables with fats 400 mg PSA, 1200 mg MgSO ₄ , 400 mg C18, 400 mg GCB	Tubes 15 ml	AOAC 2007.01	50	QUDISAOK2



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ExtraBond®. Solid Phase extraction SCHARLAU

Polymeric and silica based phases.
Maximum quality, excellent separation and great recovery.
Phase type and batch number imprinted on each cartridge for maximum traceability.
Vacuum packed for optimum conservation as well as prevention of possible phase detachments.

> **i** See our full range of ExtraBond® cartridges at scharlab.com.

DESCRIPTION	PACK (U.)	ART. NO.
ExtraBond® C18 500 mg 3ml	50	C18500-03L
ExtraBond® C18 500 mg 6 ml	30	C18500-06T
ExtraBond® C18 1 g 6 ml	30	C1801G-06T
ExtraBond® C18 2 g 12 ml	20	C1802G-12A
ExtraBond® C18 5 g 20 ml	20	C1805G-20A
ExtraBond® C8 500 mg 3 ml	50	C8E500-03L
ExtraBond® FL 1 g 6 ml	30	FLO01G-06T
ExtraBond® FL 2 g 12 ml	20	FLO02G-12A
ExtraBond® EBH 40 um 60 mg 3 ml	50	EBH060-03L
ExtraBond® EBH 40 um 200 mg 6 ml	30	EBH200-06T
ExtraBond® EBH 500 mg 6 ml	30	EBH500-06T
ExtraBond® EB2 40 um 200 mg 6 ml	30	EB2200-06T
ExtraBond® SIL 500 mg 3 ml	50	SIL500-03L
ExtraBond® SIL 1 g 6 ml	30	SIL01G-06T

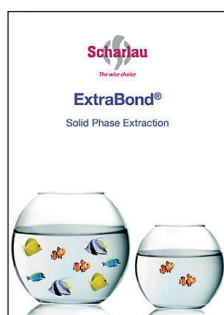
ExtraBond® Scharlau Solid Phase Extraction



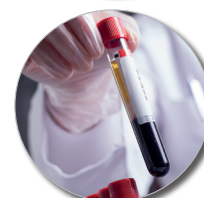
- ✓ Phase type and batch no. printed on each cartridge
- ✓ Vacuum packed
- ✓ Perfect traceability
- ✓ Maximum preservation

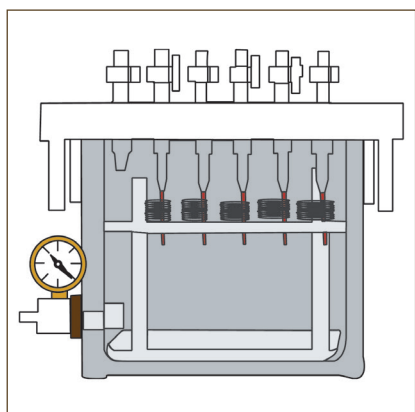
ExtraBond® Line

- ✓ ExtraBond® Silica Based
- ✓ ExtraBond® Drug
- ✓ ExtraBond® PolyU
- ✓ ExtraBond® Flash
- ✓ ExtraBond® QuEChERS



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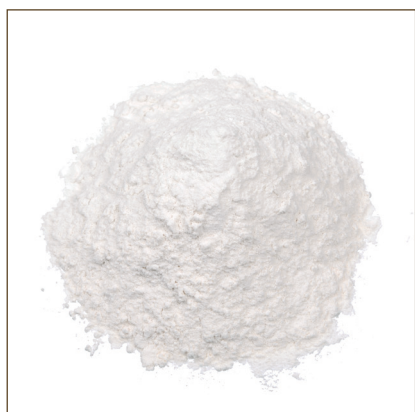


Scharlab ExtraVac vacuum manifolds 12 complete

Solid Phase Extraction. Accessories

We recommend using pressure equipment (positive or negative) taking care not to allow the solvents to “fall” by gravity for maximum reproducibility.

DESCRIPTION	PACK (U.)	ART. NO.
Scharlab ExtraVac vacuum manifolds 12 complete, 12 positions	1	EXTRAVAC12
Scharlab ExtraVac vacuum manifolds 20 complete, 24 positions	1	EXTRAVAC20
KNF vacuum pump, model N820FT.18 (20 l/min, 100 mbar Ultimate vacuum, chemical resistant)	1	00N820FT18
Vacuum tube, latex 10 mm IDx20 mm ED	10 m	288-430.11
Vacuum trap 500 ml	1	0115530058



ExtraBond®. Bulk adsorbents

SCHARLAU

ExtraBond® phases are available in bulk so you can prepare your own cartridges, or, for extraction of solid samples by putting the packing directly in contact with the sample.

DESCRIPTION	PACK (U.)	ART. NO.
ExtraBond® Bulk PSA	100 g	KQ00230100
ExtraBond® Bulk PSA	1 kg	KQ00231000
ExtraBond® Bulk C18	100 g	KQ00240100
ExtraBond® Bulk C18	1 kg	KQ00241000



2 ml vials for autosampler

SCHARLAU

Scharlab has a wide range of autosampler vials available. These are high quality vials, made of borosilicate glass type 1, expansion 33 and are very heat resistant and very inert. The shape of the vial is highly uniform for maximum safety in the autoinjector and in the use of inserts.

>  See our full range of vials at scharlab.com.

DESCRIPTION	PACK (U.)	ART. NO.
Vial and cap. Transparent glass/septum PTFE/silicone	1000	VTRRBCAPSM
Vial and cap. Amber glass/septum PTFE/silicone	1000	VAMRBCAPSM
Vial and cap. Transparent glass/septum PTFE/pre-slit silicone	1000	VTRRBSLITM
Vial and cap. Amber glass/septum PTFE/pre-slit silicone	1000	VAMRBSLITM
Vial and seal closures with septum. Transparent glass/septum PTFE/rubber	1000	VTRCRIM12M
Vial and seal closures with septum. Amber glass/septum PTFE/rubber	1000	VAMCRIM12M
Clear glass vial snap top 12x32	100	VTRSN12X32
Snap cap with pre-slit PTFE/silicone septum	100	BPTSILSCAP
Snap cap PTFE/silicone	100	WPTBSILCAP

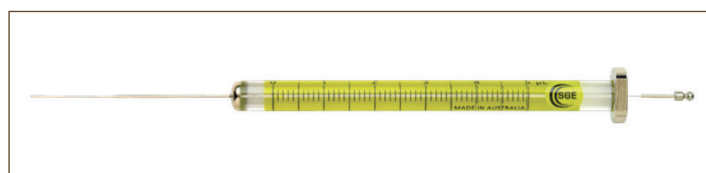


Kit eVol®
SGE

eVol® works as two accurate tools: one digital electronic control and an analytical syringe with an XCHANGE® adaptor.

The result is a digitally controlled positive displacement dispensing system that can be programmed to reproduce and accurately perform a wide variety of liquid handling procedures. eVol® will improve your laboratory workflow and reporting confidence in many ways.

DESCRIPTION	PACK (U.)	ART. NO.
Kit eVol® XR	1	0002910200
eVol® syringe 5µl. Beveled	1	0002910020
eVol® syringe 50µl. Beveled	1	0002910022
eVol® syringe 100µl. Beveled	1	0002910029
eVol® syringe 1 ml. Beveled	1	0002910035



Agilent Technologies chromatography syringes
SGE

Syringes for Agilent autosampler models 7673, 7683 & 6850 ALS. All needles are 42 mm long with cone tip.

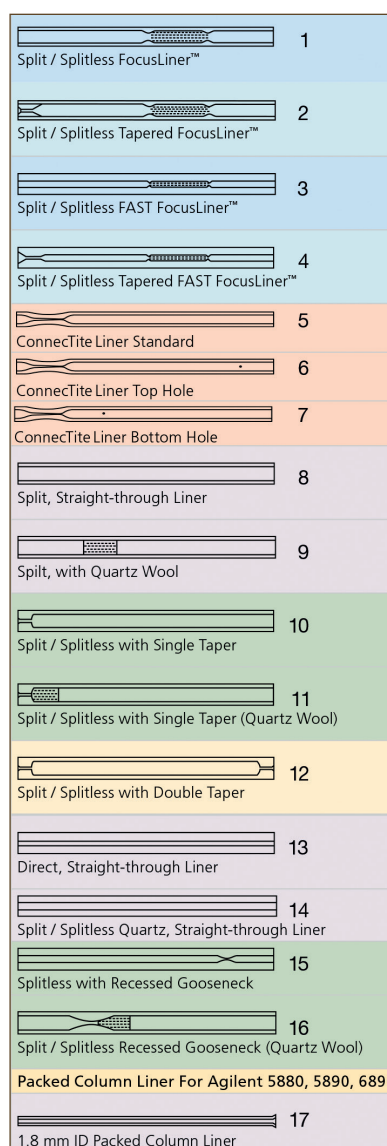
> [i See our full range of syringes for autosamplers at scharlab.com.](http://scharlab.com)

TYPE	DESCRIPTION	PACK (U.)	ART. NO.
Straight fixed needle	SGE Syringe 5µl 5F-HP-0.47	1	032-001800
	SGE Syringe 5µl 5F-HP-0.47	6	032-001804
	SGE Syringe 5µl 5F-HP-0.63	1	032-001810
	SGE Syringe 5µl 5F-HP-0.63/0.47	1	032-001821
	SGE Syringe 5µl 5F-HP-0.63/0.47	6	032-001822
	SGE Syringe 10µl 10F-HP-0.47 S	1	032-002800
	SGE Syringe 10µl 10F-HP-0.47 S	6	032-002804
	SGE Syringe 10µl 10F-HP-0.63	1	032-002810
	SGE Syringe 10µl 10F-HP-0.63	6	032-002814
	SGE Syringe 10µl 10F-HP-GT-0.63	1	032-002812
	SGE Syringe 10µl 10F-HP-0.63/0.47	1	032-002821
	SGE Syringe 10µl 10F-HP-0.63/0.47	6	032-002822
	SGE Syringe 10µl 10F-HP-GT-0.63/0.47	1	032-002826
	SGE Syringe 10µl 10F-HP-GT-0.63/0.47	6	032-002827
	SGE Syringe 10µl 10FX-HP-0.47	6	032-002831
	SGE Syringe 10µl 10FX-HP-0.63	6	032-002838
Enlarge replacement needle	SGE Syringe 0.5µl Mod. 0.5BR-HP-0.47	1	032-000400
	SGE Syringe 0.5µl 0.5BR-HP-0.63	1	032-000410
	SGE Syringe 0.5µl 0.5BR-HP-0.63/0.47	1	032-000415
	SGE Syringe 1µl 1BR-HP-0.63	1	032-000610
	SGE Syringe 10µl 10R-HP-0.47	1	032-002805
	SGE Syringe 10µl 10R-HP-0.63	1	032-002815
	SGE Syringe 10µl 10R-HP-GT-0.63/0.47	1	032-002829

Agilent Technologies chromatography inlet liners SGE

Compatible with Agilent equipment 7673, 7683, 7693A and 6850ALS.

> See our full range of liners at scharlab.com.



DESCRIPTION	PACK (U.)	ART. NO.
Liner SGE AG 4mm ID FOCUS	5	032-092002
Liner SGE AG 4mm ID TAPFOCUS	5	032-092003
Liner SGE AG 2.3mm ID FOCUS	5	032-092005
Liner SGE AG 2.3mm IDFOCUS	5	032-092111
Liner SGE ConneCTite Standard 4mm ID	5	032-092324
Liner SGE ConneCTite Top Hole 4mm ID	5	032-092325
Liner SGE ConneCTite Bottom Hole 4mm ID	5	032-092326
Liner SGE AG 4mm ID STRGT	5	032-092007
Liner SGE AG 4mm ID QW	5	032-092001
Liner SGE AG 4mm ID TAPER	5	032-092017
Liner SGE AG 4mm ID TAPER QW	5	032-092019
Liner SGE AG 4mm ID DBLTAP	5	032-092018
Liner SGE AG 1.2mm ID STRGT	5	032-092016
Liner SGE AG QTZ 2mm ID STRGT	5	032-092004
Liner SGE AG 2mm ID GN	5	032-092013
Liner SGE AG 4mm ID GN QW	5	032-092010

DESCRIPTION	ON FIG.	INSTRUMENT	Ø EXT (MM)	Ø INT. (MM)	LENGTH (MM)	PACK (U.)	ART. NO.
Split/Splitless FocusLiner®	1	5890, 6850, 6890, 7890 and HP4890	6.3	4	78.5	5	032-092002
Split/Splitless Tapered FocusLiner®	2	5890, 6850, 6890, 7890 and HP4890	6.3	4	78.5	5	032-092003
Split/Splitless FAST FocusLiner®	3	5890, 6850, 6890, 7890 and HP4890	6.3	2.3	78.5	5	032-092005
Split/Splitless Tapered FAST FocusLiner®	4	5890, 6850, 6890, 7890 and HP4890	6.3	2.3	78.5	5	032-092111
ConneCTite Liner Standard	5	5890, 6850, 6890, 7890 and HP4890	6.3	4	78.5	5	032-092324
ConneCTite Liner Top Hole	6	5890, 6850, 6890, 7890 and HP4890	6.3	4	78.5	5	032-092325
ConneCTite Liner Bottom Hole	7	5890, 6850, 6890, 7890 and HP4890	6.3	4	78.5	5	032-092326
Split, Straight-through Liner	8	5890, 6850, 6890, 7890 and HP4890	6.3	4	78.5	5	032-092007
Split, with Quartz Wool	9	5890, 6850, 6890, 7890 and HP4890	6.3	4	78.5	5	032-092001
Split/Splitless with Single Taper	10	5890, 6850, 6890, 7890 and HP4890	6.3	4	78.5	5	032-092017
Split/Splitless with Single Taper (Quartz Wool)	11	5890, 6850, 6890, 7890 and HP4890	6.3	4	78.5	5	032-092019
Split/Splitless with Double Taper	12	5890, 6850, 6890, 7890 and HP4890	6.3	4	78.5	5	032-092018
Direct, Straight-through Liner	13	5890, 6850, 6890, 7890 and HP4890	6.3	1.2	78.5	5	032-092016
Split/Splitless Quartz, Straight-through Liner	14	5890, 6850, 6890, 7890 and HP4890	6.1	2	78.5	5	032-092004
Splitless with Recessed Gooseneck	15	5890, 6850, 6890, 7890 and HP4890	6.3	2	78.5	5	032-092013
Split/Splitless Recessed Gooseneck (Quartz Wool)	16	5890, 6850, 6890, 7890 and HP4890	6.3	4	78.5	5	032-092010
1.8 mm ID Packed Column Liner	17	5880, 5890, 6890 (Packed col.)	3	1.8	92	5	032-092234
Sim Dist Liner for Programmed Injector	-	AC Control Injector	3	1.6	73	5	032-092210
Sintered Glass. Large Volume Injection (LVI)	-	Injector Gerstel CIS 4	3	1.8	71	5	032-092243
Single Baffle	-	Injector Gerstel CIS 4	3	1.8	71	5	032-092246



GC Columns

SCHARLAU

SC-1:

Phase: 100% methyl polysiloxane.

- Non polar
- General-purpose column

Applications: Solvent impurities, PCBs, simulated distillation, drugs, gases, natural gases, essential oils, semivolatiles, pesticides, phenols.

Alternative to DB-1, HP-1, AT-1, ZB-1, 007-1, Rtx-1, BP-1, SPB-1, CP Sil 5 CB.

SC-1MS:

Phase: 100% methyl polysiloxane.

- Non polar, low bleed
- General-purpose column for GC-MS

Applications: Solvent impurities, PCBs, simulated distillation, drugs, gases, natural gases, essential oils, semivolatiles, pesticides, phenols.

Alternative to Alternative to DB-1, HP-1, AT-1, ZB-1, 007-1, Rtx-1, BP-1, SPB-1, CP Sil 5 CB.

SC-5:

Phase: 5% phenyl, 95% methyl polysiloxane.

- Non polar
- General-purpose column

Applications: Solvent impurities, PCBs, hydrocarbons, essential oils, semi-volatiles, pesticides.

Alternative to DB-5, HP-5, AT-5, ZB-5, 007-5, Rtx- 5, BP-5, SPB-5, CP Sil 8 CB.

SC-5 MS:

Phase: 5% phenyl, 95% methyl polysiloxane.

- Non polar, low bleed
- General-purpose column for GC-MS

Applications: Solvent impurities, PCBs, hydrocarbons, essential oils, semi-volatiles, pesticides.

Alternative to DB-5MS (UI), HP-5MS, AT-5MS, ZB-5MS, 007-5MS, Rtx-5MS, BPX-5, Equity-5.

SC-35:

Phase: 35% phenyl, 65% methyl polysiloxane.

- Medium polarity
- Ideal for conformational analysis

Applications: Pesticides, PCBs, phenols, ambiental analysis.

Alternative to DB-35, HP-35, AT-35, ZB-35, 007-11, Rtx-35, BPX-35, BPX-608, SPB-35, SPB-608.

SC-50:

Phase: 50% phenyl, 50% methyl polysiloxane.

- Medium polarity

Applications: Pharmaceutical analysis, herbicides, several EPA methods.

Alternative to DB-17, HP-17, AT-50, ZB-50, 007-17, Rtx-15, BPX-50, SPB-50, CP Sil 24 CB.

SC-624:

Phase: 6% Cyanopropylphenyl, 94% methyl polysiloxane.

- Medium polarity
- Ideal for residual solvent analysis

Applications: Aromatics, hydrocarbons, VOCs.

Alternative to DB-624, HP-624, AT-624, ZB-624, 007-624, Rtx-624, BP-624, SPB-624.

SC-1701:

Phase: 14% Cyanopropylphenyl, 86% methyl polysiloxane.

- Medium polarity
- Ideal for organophosphorous pesticide analysis

Applications: Residual solvents, PCBs, alcohols.

Alternative to DB-1701, HP-1701, AT-1701, ZB-1701, 007-1701, Rtx-1701, BP-10, SPB-1701, CP Sil 19 CB.

SC-WAX:

Phase: Polyethylene Glycol.

- High polarity

Applications: FAMES, aromatics, alcohols, essential oils.

Alternative to DB-WAX, HP-WAX, AT-WAX, 007-WAX, ZB-WAX, Rtx-WAX, BP-20, Omegawax, CP Wax 52 CB.

SC-FFAP:

Phase: Polyethylene Glycol TPA modified.

- High polarity
- Ideal for the analysis of volatile free acids and phenols

Applications: FAMES, alcohols, aldehydes, acrylates, ketones.

Alternative to DB-FFAP, HP-FFAP, AT-1000, 007-FFAP, ZB-FFAP, BP-21, Stabilwax DA, CP Wax 58 CB.

➤  See our full range of GC columns at scharlab.com.

DESCRIPTION	PACK (U.)	ART. NO.
GC column SC-1 15m x 0.25mm x 0.25µm	1	SC11521006
GC column SC-1 15m x 0.30mm x 0.25µm	1	SC13021008
GC column SC-1 60m x 0.25mm x 0.25µm	1	SC16021010
GC column SC-1 MS 15m x 0.25mm x 0.25µm	1	SC11531006
GC column SC-1 MS 30m x 0.25mm x 0.25µm	1	SC13031008
GC column SC-1 MS 60m x 0.25mm x 0.25µm	1	SC16031010
GC column SC-5 15m x 0.25mm x 0.25µm	1	SC51522006
GC column SC-5 30m x 0.25mm x 0.25µm	1	SC53022008
GC column SC-5 60m x 0.25mm x 0.25µm	1	SC56022010
GC column SC-5 MS 15m x 0.25mm x 0.25µm	1	SC5M153206
GC column SC-5 MS 30m x 0.25mm x 0.25µm	1	SC5M303208
GC column SC-5 MS 60m x 0.25mm x 0.25µm	1	SC5M603210
GC column SC-2560 30m x 0.25mm x 0.25µm	1	SC35309002
GC column SC-2560 30m x 0.32mm x 0.25µm	1	SC35309005
GC column SC-2560 30m x 0.53mm x 0.50µm	1	SC35309009
GC column SC-50 30m x 0.25mm x 0.25µm	1	SC50306008
GC column SC-50 30m x 0.32mm x 0.25µm	1	SC50306028
GC column SC-50 30m x 0.53mm x 1.00µm	1	SC50306063
GC column SC-64 60m x 0.25mm x 1.40µm	1	SC66026005
GC column SC-64 30m x 0.32mm x 1.80µm	1	SC63026008
GC column SC-64 60m x 0.32mm x 1.80µm	1	SC66026010
GC column SC-64 60m x 0.53mm x 3.00µm	1	SC66026020
GC column SC-64 75m x 0.53mm x 3.00µm	1	SC67526021
GC column SC-1701 30m x 0.25mm x 0.25µm	1	SC17307008
GC column SC-1701 30m x 0.32mm x 0.25µm	1	SC17307033
GC column SC-1701 30m x 0.32mm x 1.00µm	1	SC17307048
GC column SC-WAX 30m x 0.25mm x 0.25µm	1	SCW3023008
GC column SC-WAX 30m x 0.32mm x 0.25µm	1	SCW3023028
GC column SC-WAX 30m x 0.53mm x 0.45µm	1	SCW3023058
GC column SC-FFAP 30m x 0.25mm x 0.25µm	1	SCF3025008
GC column SC-FFAP 30m x 0.32mm x 0.25µm	1	SCF3025028
GC column SC-FFAP 30m x 0.53mm x 0.45µm	1	SCF3025058



GC columns
SGE

> **i** See our full range of GC columns at scharlab.com.

DESCRIPTION	PACK (U.)	ART. NO.
Column 30mx0.32mm ID BP5 0.25µm	1	032-054177
Column 30mx0.25mm ID BP5 0.25µm	1	032-054183
Column 25mx0.32mm ID BP5 0.5µm	1	032-054186
Column 30mx0.32mm ID BP5 1µm	1	032-054189
Column 30mx0.25mm ID BP5 1µm	1	032-054203
Column 10mx0.1mm ID BPX5 0.1µm	1	032-054099
Column 30mx0.25mm ID BPX5 0.25µm	1	032-054101
Column 25mx0.22mm ID BPX5 0.25µm	1	032-054113
Column 30mx0.22mm ID BPX5 0.25µm	1	032-054142
Column 30mx0.53mm ID BPX5 1µm	1	032-054148
Column 30mx0.25mm ID BP5MS 0.25µm	1	032-054310
Column 10mx0.1mm ID BPX35 0.1µm	1	032-054699
Column 30mx0.25mm ID BPX35 0.25µm	1	032-054701
Column 25mx0.22mm ID BPX35 0.25µm	1	032-054711
Column 30mx0.25mm ID BP10 0.25µm	1	032-054256
Column 50mx0.53mm ID BP624 3µm	1	032-054835
Column 60mx0.25mm ID BP624 1,4µm	1	032-054842
Column 30mx0.22mm ID BP624 1,2µm	1	032-054827
Column 30mx0.25mm ID BP20 0.25µm	1	032-054427
Column 25mx0.32mm ID BP20 1µm	1	032-054442

BP5:
Phase: 5% Phenyl / 95% Dimethyl Polysiloxane

BPX5:
Phase: 5% Phenyl Polysilphenylene-siloxane

BP5MS:
Phase: 5% Phenyl Polysilphenylene-siloxane

BPX35:
Phase: 35% Phenyl Polysilphenylene-siloxane

BP10:
Phase: 14% Cyanopropylphenyl Polysiloxane

BP624:
Phase: Cyanopropylphenyl Polysiloxane

BP20:
Phase: Polyethylene Glycol (PEG)

HPLC columns

SCHARLAU

KromaPhase is based on ultra pure spherical silica of high quality that provides high reproducibility and chemical stability using monofunctional silanes and total end-capping. KromaSil can be perfectly substituted for KromaPhase without changing the method. To ensure lot-to-lot reproducibility each lot is subject to specific controls.



> **i** See our full range of HPLC columns at scharlab.com.

DESCRIPTION	PACK (U.)	ART. NO.
KhromaPhase column 100 C18 5µm 125x2mm	1	070B39Y803
KhromaPhase column 100 C18 3,5µm 150x4,6mm	1	066-B2Y811
KhromaPhase column 100 C18 5µm 150x4,6mm	1	066-B2Y803
KhromaPhase column 100 C8 3,5µm 250x4,6mm	1	066-B6Y809
KhromaPhase column 100 C8 5µm 150x4,6mm	1	066-B2Y802
KhromaPhase column 100 C8 5µm 250x4,6mm	1	066-B6Y802
KhromaPhase column 100 NH2 5µm 250x4,6mm	1	066-B6Y807
KhromaPhase column 100 SIL 5µm 250x4,6mm	1	066-B6Y801
Guard column cartridge type C18 3,5µm 10x4.0mm	5	070-BGY811
Guard column cartridge type C18 5µm 10x4.0mm	5	070-BGY803
Guard column cartridge type C8 3,5µm 10x4.0mm	5	070-BGY809
Guard column cartridge type C8 5µm 10x4.0mm	5	070-BGY802
Guard column cartridge type NH2 5µm 10x4.0mm	5	070-BGY807
Guard column cartridge type SIL 5µm 10x4.0mm	5	070-BGY801
Holder for guard columns, cartridge type of 10x4.0mm	1	070HOLDER2

BISCHOFF

ProntoSIL Phenyl offers an alternative selectivity to C18 or C8 through p-p interaction. Totally deactivated. Very stable even at pH 1. Hydrophobicity comparable to C8.

ProntoSIL C18 AQ. It is the most universal of the ProntoSIL C18 line. Unique bonding technology allows it to be used successfully with aqueous phases without organic modifier, yielding excellent peak symmetry as well as high selectivity. Completely deactivated packing ("endcapped"). Especially suitable for hydrophilic polar compounds.



DESCRIPTION	PACK (U.)	ART. NO.
ProntoSIL column 120 Phenyl 5µm 125x2mm	1	1202F050P5
ProntoSIL column 120-3-C18 AQ 3µm 150x2.0mm	1	1502F184P3
ProntoSIL Guard column cartridge Phenyl 5µm 10x4.0mm	5	6301F050P5
ProntoSIL Guard column cartridge 120-5-C18AQ 3µm 10x4.0mm	5	6301F184P3



Mobile phase filtration membranes and syringe filters

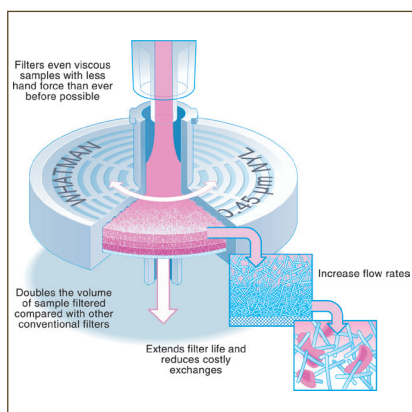
Syringe filters are used mainly for filtering small aqueous and organic samples prior to chromatography injection. Filtered samples ensure column protection.

>  See our full range of syringe filters at scharlab.com.

SCHARLAU

The filter housing is made of pure PP. The result is a high quality syringe filter fulfilling the needs of the most demanding chromatographers.

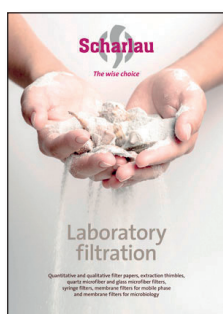
DESCRIPTION	PACK (U.)	ART. NO.
Syringe filter PVDF 17mm 0.45µm	200	PV17045200
Syringe filter PVDF 30mm 0.22µm	200	PV30020200
Syringe filter PVDF 30mm 0.45µm	200	PV30045200
Syringe filter Nylon 13mm 0.45µm	200	NY13045200
Syringe filter Nylon 25mm 0.22µm	200	NY25045200
Syringe filter Nylon 25mm 0.45µm	200	NY25020200
Syringe filter PTFE 17mm 0.22µm	200	TF17020200
Syringe filter PTFE 17mm 0.45µm	200	TF17045200
Syringe filter PTFE 30mm 0.22µm	200	TF30020200
Syringe filter PTFE 30mm 0.45µm	200	TF30045200
Syringe filter PP 25mm 0.22µm	1000	PP25021000
Syringe filter PP 25mm 0.45µm	1000	PP25041000
Syringe filter PP 13mm 0.22µm	1000	PP13021000
Syringe filter PP 13mm 0.45µm	1000	PP13041000
Nylon membrane 47mm 0.22µm	100	NY47020100
Nylon membrane 47mm 0.45µm	100	NY47045100



WHATMAN

GD/X is designed specifically for filtering samples with a high load of particles. With a polypropylene housing free of pigments and with a Whatman GMF150 and GF/F glass microfibre prefilter. These filters eliminate or largely reduce the need for prefiltration of samples difficult to filter and allow for filtering difficult samples using less pressure. The GD/X syringe filters can process 3 to 7 times more volume of sample than standard syringe filters.

DESCRIPTION	PACK (U.)	ART. NO.
Syringe filter PVDF GD/X 25 mm 0.45 µm with GF prefilter	150	06872-2504
Syringe filter Nylon GD/X 25 mm 0.45 µm with GF prefilter	150	06871-2504
Syringe filter PTFE GD/X 25 mm 0.45 µm with GF prefilter	150	06874-2504
Membrane PTFE 47 mm 0.22 µm	50	0010411411
Membrane PTFE 47 mm 0.45 µm	50	0010411311



Download here the brochure



Cellulose extraction thimbles

SCHARLAU

The extraction thimbles are made of high-purity alpha cellulose linters. Diameter tolerance ± 3 mm, and ± 10 mm height tolerance. Wall thickness of 1.5 mm and ashes content less than 0.2%. The thimble range is completed with models fitted to automated Soxhlet extractor manufacturers.

>  See our full range of extraction thimbles at scharlab.com.

	DIM. Ø X LENGTH	TYPICAL RETENTION (μ M)	PACK (U.)	ART. NO.
Standard cellulose thimbles	25x60 mm	Nom. 8-15 microns	25	CT32525X60
	25x80 mm	Nom. 8-15 microns	25	CT32525X80
	26x60 mm	Nom. 8-15 microns	25	CT32526X60
Cellulose thimbles for Soxhlet, automatic	22x80 mm	Nom. 8-15 microns	25	CT42522X80
	33x80 mm	Nom. 8-15 microns	25	CT42533X80



Qualitative filter papers for general use (technical grade)

SCHARLAU

For routine analysis. High quality cellulose and ashes content below 0.3%.

>  See our full range of filter papers at scharlab.com.

FILTRATION SPEED	Ø (MM)	TYPICAL RETENTION (μ M)	DISC/ FOLDED	WEIGHT (G/M ²)	PACK (U.)	ART. NO.	
Very fast filtration	90	>20	Disc	80	100	CFISTAE090	
	110	>20	Disc	80	100	CFISTAE110	
	125	>20	Disc	80	100	CFISTAE125	
	130	>20	Disc	80	100	CFISTAE130	
	150	>20	Disc	80	100	CFISTAE150	
	200	>20	Disc	80	100	CFISTAE200	
	250	>20	Disc	80	100	CFISTAE250	
	90	>20	Folded	80	100	CF2STAE090	
	110	>20	Folded	80	100	CF2STAE110	
	130	>20	Folded	80	100	CF2STAE130	
	150	>20	Folded	80	100	CF2STAE150	
	185	>20	Folded	80	100	CF2STAE185	
	200	>20	Folded	80	100	CF2STAE200	
	250	>20	Folded	80	100	CF2STAE250	
	300	>20	Folded	80	100	CF2STAE300	
	Medium-fast filtration	90	8-12	Disc	75	100	CFISTAM090
		110	8-12	Disc	75	100	CFISTAM110
125		8-12	Disc	75	100	CFISTAM125	
130		8-12	Disc	75	100	CFISTAM130	
150		8-12	Disc	75	100	CFISTAM150	
185		8-12	Disc	75	100	CFISTAM185	
200		8-12	Disc	75	100	CFISTAM200	
240		8-12	Disc	75	100	CFISTAM240	
250		8-12	Disc	75	100	CFISTAM250	
320		8-12	Disc	75	100	CFISTAM320	
90		8-12	Folded	75	100	CF2STAM090	
110		8-12	Folded	75	100	CF2STAM110	
125		8-12	Folded	75	100	CF2STAM125	
150		8-12	Folded	75	100	CF2STAM150	
185		8-12	Folded	75	100	CF2STAM185	
240		8-12	Folded	75	100	CF2STAM240	
320		8-12	Folded	75	100	CF2STAM320	



Volumetric flasks, class A, PE stopper, serial number and conformity certified SCHARLAU

- Borosilicate glass 3.3.
- Blue tinted.
- Lot number.
- Complies with norm ISO 1042.

> **i** See our full range of flasks at scharlab.com.

CAPACITY (ML)	SOCKET	TOLERANCE ± (ML)	PACK (U.)	ART. NO.
5	10/19	0.025	1	073-001629
10	10/19	0.025	1	073-001630
20	10/19	0.04	2	0732163120
25	12/21	0.04	2	073-201631
50	12/21	0.06	2	073-201632
100	14/23	0.10	2	073-201633



Also available with coloured neck. To avoid mistakes in the laboratory and cross-contamination.



Volumetric pipettes, two marks, class AS, serialized and certified, soda-lime glass SCHARLAU

- Two marks.
- Class AS.
- Soda-lime glass.
- Complies with ISO 648 standard.
- Serial number and conformity certified.

> **i** See our full range of volumetric pipettes at scharlab.com.

CAPACITY (ML)	PACK (U.)	ART. NO.
1	5	073-991696
2	5	073-991697
5	5	073-991698
10	5	073-991699
25	5	073-991702



Borosilicate glass graduated cylinders, class A, hexagonal base, with pour spout, serialized and certified ISO 4788 SCHARLAU

> **i** See our full range of cylinders at scharlab.com.

CAPACITY (ML)	DIVISION (ML)	TOLERANCE ± (ML)	COLOUR GRADUATION	PACK (U.)	ART. NO.
10	1/5	0.10	Blue	2	073-201750
25	1/2	0.25	Blue	2	073-201751
50	1/1	0.5	Blue	2	073-201752
100	1/1	0.5	Blue	2	073-201753
250	2/1	1	Blue	2	073-201754
500	5/1	2.5	Blue	1	073-001755
1000	10/1	5	Blue	1	073-001756
2000	20/1	10	Blue	1	073-001757



Separating funnels, conical PTFE stopcock, with stopper SCHARLAU

>  See our full range of funnels at scharlab.com.

CAPACITY (ML)	SOCKET	PACK (U.)	ART. NO.
100	19/26	1	073-000314
250	29/32	1	073-000315
500	29/32	1	073-000316
1.000	29/32	1	073-000317



Flasks, ground socket, round bottom, short neck, clear glass SCHARLAU

>  See our full range of flasks at scharlab.com.

CAPACITY (ML)	SOCKET	PACK (U.)	ART. NO.
25	14/23	10	073-100003
50	14/23	10	073-100004
100	14/23	10	073-100005
100	29/32	10	073-100006
250	29/32	10	073-100008
500	29/32	10	073-100009
1000	29/32	1	073-000010

Ground joint glassware

According to your needs

- Adapters
- Bottles
- Columns
- Condensers
- Filtration systems
- Flasks
- Funnels
- Glassware apparatus
- Homogenizers
- Kipp dispensers
- Picnometers
- Reaction vessels
- Rotary evaporator spare parts
- Stopcocks
- Stoppers
- Traps
- Vacuum manifolds





Kuderna-Danish glass apparatus (condenser-evaporator) SCHARLAU

For sample preparation in herbicides analysis.

Comprising:

- Graduated collector 10 ml
- Pear shaped flask of 500 ml with male and female ground joints 19/26
- Snyder column with three plates and male and female ground joints 19/26
- Plastic clips

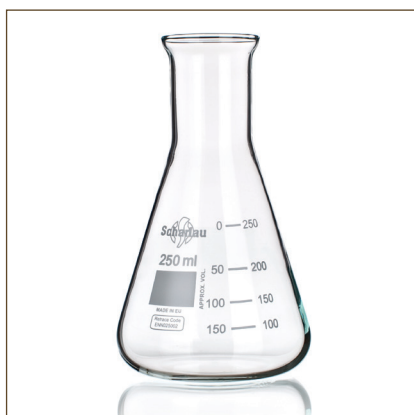
DESCRIPTION	PACK (U.)	ART. NO.
Kuderna-Danish glass apparatus	1	073-001167



Gas washing bottles with 125 ml jointed glass connections SCHARLAU

> [i](https://www.scharlab.com) See our full range of gas washing bottles at [scharlab.com](https://www.scharlab.com).

CAPACITY (ML)	PACK (U.)	ART. NO.
125	1	073-000886
250	1	073-000889



Erlenmeyer flasks narrow neck DIN 1773
SCHARLAU

> [i](#) See our full range of flasks at scharlab.com.

CAPACITY (ML)	Ø NECK (MM)	HEIGHT (MM)	PACK (U.)	ART. NO.
50	22	90	10	1033567304
100	22	105	10	1033527305
250	34	145	10	1033527308
500	34	180	10	1033527311



Clear laboratory bottles
SCHARLAU

Clear borosilicate glass bottle, with GL45 thread, graduated, blue cap and pouring ring, ISO 4796.
Made of borosilicate glass 3.3.
The bottle, pouring ring and screw cap can be sterilised.
It includes retrace code and double graduated scale.

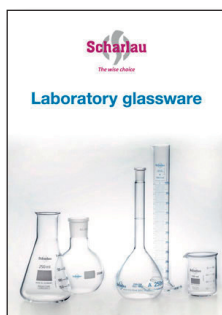
> [i](#) See our full range of clear laboratory bottles at scharlab.com.

CAPACITY (ML)	PACK (U.)	ART. NO.
100	10	1033799005
250	10	1033799006
500	10	1033799007
1000	10	1033799008



Glass Pasteur pipettes
SCHARLAU

LENGTH (MM)	PACK (U.)	ART. NO.
160	250	073-001734
220	250	073-001735



Download here the brochure



Narrow neck bottles

SCHARLAU

Common glass bottle with narrow neck and Pilfer 28 thread.

> [i See our full range of narrow neck bottles at scharlab.com.](https://www.scharlab.com)

CAPACITY (ML)	STOPPER	PACK (U.)	ART. NO.
30	No	156	073-VI30ST
30	Yes	156	073-AC0030
60	No	160	073-VI60ST
60	Yes	160	073-AC0060
125	No	104	073VI125ST
125	Yes	104	073-AC0125

Caps

DESCRIPTION	PACK (U.)	ART. NO.
White polypropylene cap without liner and without septum	20	073-TAP125
	104	073-TAP104
	156	073-TAP156
	160	073-TAP160



Amber glass bottles, thread GL

Amber coated glass bottles. Glass is the best material to contain analytical reagents. Flasks without cap.

> [i See our full range of amber glass bottles at scharlab.com.](https://www.scharlab.com)

CAPACITY (ML)	THREAD GL	PACK (U.)	ART. NO.
100	32	20	FAB-L-0100
250	32	20	FAB-L-0250

Caps

THREAD GL	PACK (U.)	ART. NO.
32	20	FAB-TA1311



Vials with snap-on lid

DESCRIPTION	PACK (U.)	ART. NO.
Vial with snap-on lid 20 ml, 29.50 x 40 mm (clear borosilicate glass) WITHOUT lid	112	0125622940
Vial with snap-on lid 30 ml, 29.50 x 70 mm (clear borosilicate glass) WITHOUT lid	112	0125622970
Snap-on lid, white	112	012562TA04



Vials with screw cap

DESCRIPTION	PACK (U.)	ART. NO.
Vial with screw cap 13-415, 3 ml, 16.25x40 mm, vidrio borosilicato transparente, WITHOUT cap	390	0120121640
Vial with screw cap 13-415, 5 ml, 16.25x55 mm, vidrio borosilicato transparente, WITHOUT cap	390	0120121655
Screw cap 13-415, white, with liner	390	01201TRD01



Disposable, powder-free, blue nitrile gloves for examination SCHARLAU

Category III PPE gloves, for the protection of user's hands against chemical, microbiological and virus risks
 Comply with EN 420: 2003 + A1: 2009 + ERRATUM: 2011, ISO 374-1: 2016, ISO 374-5: 2016 and EN 455 1-2-3
 Ambidextrous, with rolled cuff
 External micro-textured fingertips provide a secure grip under dry and wet conditions
 AQL 1.5
 Suitable for contact with foodstuffs
 Thickness (fingertips/palm): 0.12/0.09 mm



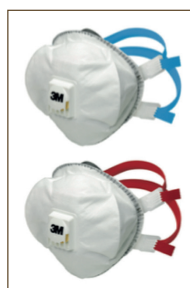
SIZE	LENGTH (MM)	PACK (U.)	ART. NO.
S	240	100	GLV-NSP00S
M	240	100	GLV-P00L0M
L	240	100	GLV-NSP00L
XL	240	100	GLV-NSP0XL



Particulate respirators. 8000 Series cup shaped style 3M

3M Disposable Respirators combine ergonomic design for superior comfort with 3M technologies providing easier breathing and comfortable protection against particulate hazards.

MODEL	EN 149 CLASSIFICATION	MAXIMUM LEVEL OF USAGE nXVLA	FILTER TYPE	PACK (U.)	ART. NO.
Classic 8822	FFP2 NR D	12 x	P2	10	004-0C8111



Reusable hybrid respirators 8825+ and 8835+ 3M

Respirators suitable for use against non-volatile liquid and solid particles and capable of matching the lightness and comfort of a particle mask with the facial sealing of a half mask. With adjustable buckle straps.

MODEL	EN 149 CLASSIFICATION	MAXIMUM LEVEL OF USAGE nXVLA	FILTER TYPE	PACK (U.)	ART. NO.
8825+	FFP2 R D	12 x	P2	5	004-08825P
8835+	FFP3 R D	50 x	P3	5	004-08835P



Safety cabinets for flammable products (90') TRIONYX

Fire resistance for 105 minutes (approved Type 90) in as per ISO 834 fire heating curve.
 Tested and approved according to EN 14470-1 (04/2004) and EN 1363-1 (06/2000).
 Normalized labelling according to ISO 3864 and EN 14470-1 (04/2004) norms, and 92/58/CEE European directive.
 Double wall construction:
 - Outer housing made of sheet steel (12/10th) with high quality epoxy coating RAL 9010.
 - Inner body built in white (RAL 9010) melamine-based wood.

Thermal insulation panel between the walls avoiding thermal bridges.
 Removable bottom containment sump.
 Safety labellings as per EN 14470-1.
 Adjustable containment shelves.
 Earthing link.
 Ø 100 mm air inlet and outlet ducts for either natural ventilation or connection with forced ventilation/filtration system.
 In case of fire, a thermo-fuse automatically seals off the ventilation system.
 Thermo-expanding seals on the door(s) allows to keep the internal body fireproof.
 Separately locking door(s) with cylinder locks.
 Self-closing door(s) with possibility to keep the door(s) open. If the temperature rises to 50 °C, a fuse link closes the door(s) automatically.

MODEL	CABINET CONSTRUCTION	EQUIPMENT	NET CAP. (L)	DIM. HXWXD (MM)	WEIGHT (KG)	PACK (U.)	ART. NO.
791E	Under-bench. 1 door	1 shelf and 1 base trough	30	670x635x615	158	1	178-005791
792E	Under-bench. 2 doors	1 shelf and 1 base trough	60	670x1135x615	246	1	178-005792
793E	Medium. 2 doors	2 shelves and 1 base trough	115	1080x1135x615	342	1	178-005793
794E	Tall. 1 door	3 shelves and 1 base trough	130	1880x635x615	324	1	178-005794
795E	Tall. 2 doors	3 shelves and 1 base trough	250	1880x1135x615	458	1	178-005795



Safety cabinet for pesticides AL 302

TRIONYX

Large warning labels in compliance with ISO 3864 norm and 92/58/CEE European directive.

Recommended for storage of herbicides, fungicides, insecticides and other phytosanitary products.

Built in steel 8/10 th.

Grey epoxy paint RAL 7035.

Storage capacity: 240 L.

Retention capacity: 4 L.

3 adjustable retention shelves and base through (50 mm height).

High and low vents.

Double door with 2 key locking points.

External dimensions (HxWxD): 1800x920x420 mm.

Weight: 60 Kg.

DESCRIPTION	PACK (U.)	ART. NO.
Safety cabinet for pesticides AL 302	1	178-0AL302



Safety cabinets for pesticides AC150 and AC300

TRIONYX

Large warning labels in compliance with ISO 3864 norm and 92/58/CEE European directive.

Especially designed for pesticides and other agricultural chemical products.

Built in steel.

Green epoxy paint RAL 6011.

3 adjustable retention shelves and base through (50 mm height).

High and low vents.

MODEL	CABINET CONSTRUCTION	NET CAP. (L)	EQUIPMENT	DIM. HXWXD (MM)	WEIGHT (KG)	PACK (U.)	ART. NO.
AC150	Tall, 1 door	150	3 shelves + cuvette	1950x500x500	55	1	178-0AC150
AC300	Tall, 2 door	300	3 shelves + cuvette	1950x930x500	90	1	178-0AC300



Filtering ventilation safety cabinet - to put on under-bench or wall mounted

TRIONYX

Elimination of dangerous vapours.

No need to connect to a central exhaust system.

Stored products clearly visible.

Perforated shelves allowing liquids flow in case of discharge.

Ventilation system with lighting control.

Specialised high efficiency active charcoal filter, in compliance with the NF X 15-211. norm, following treated chemical products storage.

Dust pre-filter, 92% efficiency with more than 3 µm particle.

Storage capacity: 41 L.

2 sliding doors, 3 compartments, 2 shelves.

Manual closing.

External dimensions (HxWxD): 850x810x325 mm.

Weight: 50 g.

The cabinet is supplied without carbon filter. The filter must be selected according to the chemicals stored.

DESCRIPTION	PACK (U.)	ART. NO.
Filtering ventilation safety cabinet AF10	1	178-00AF10
Active coal filter for organic vapors	1	178-CDFORG



Adjustable-volume automatic pipettes

VITLAB

Automatic multichannel pipettes, ideal for demanding laboratory applications and with all the features required by users: ergonomic, completely autoclavable, highly accurate with simple calibration for lasting reliability.

Conformity certified to DIN 12600, are CE-IVD-compliant and are completely autoclavable at 121 °C (2 bar), according to DIN EN 285.

RANGE (µL)	ACCURACY (%)	COEFFICIENT OF VARIATION (%)	PACK (U.)	ART. NO.
0.5-10	1	0.5	1	0001641000
2-20	0.8	0.4	1	0001641002
10-100	0.6	0.2	1	0001641004
20-200	0.6	0.2	1	0001641006
100-1.000	0.6	0.2	1	0001641008
500-5.000	0.6	0.2	1	0001641010
1.000-10.000	0.6	0.2	1	0001641012



Pluripet adjustable-volume automatic pipettes

KARTELL

Fully autoclavable pipettes. With tip ejector for reducing contamination risks. Ensuring high precision which makes them ideal for routine tasks. Each pipette has a coloured Art. No. depending on volume, to make its identification easier. All micropipettes are individually tested, and a quality control certificate is included to guarantee their precision. In accordance with EN ISO 8655.

MODEL	RANGE (µL)	VOLUME (µL)	ACCURACY (%)	REPEATABILITY P (%)	PACK (U.)	ART. NO.
Pluripet PL2	0.2-2	Min. 0.2	±1.2	≤6.0	1	425-129610
		1,0	±2.7	≤1.3		
		Max. 2,0	±1.5	≤0.7		
Pluripet PL10	0.5-10	Min. 0.5	±4.0	≤4.0	1	425-131910
		5,0	±1.0	≤0.8		
		Max. 10,0	±0.5	≤0.4		
Pluripet PL20	2-20	Min. 2	±4.0	≤3.0	1	425-130010
		10	±1.0	≤0.7		
		Max. 20	±0.8	≤0.4		
Pluripet PL100	10-100	Min. 10	±1.6	≤0.8	1	425-132110
		50	±1.0	≤0.4		
		Max. 100	±0.8	≤0.3		
Pluripet PL200	20-200	Min. 20	±1.2	≤0.6	1	425-130110
		100	±1.0	≤0.3		
		Max. 200	±0.6	≤0.3		
Pluripet PL1001	100-1000	Min. 100	±0.9	≤0.45	1	425-132210
		500	±0.7	≤0.25		
		Max. 1.000	±0.6	≤0.25		
Pluripet PL5000	1000-5000	Min. 1.000	±0.6	≤0.3	1	425-132510
		2.500	±0.6	≤0.3		
		Max. 5.000	±0.5	≤0.2		
Pluripet PL10000	1000-10000	Min. 1.000	±2.5	≤0.6	1	425-132910
		5.000	±0.8	≤0.3		
		Max. 10.000	±0.2	≤0.2		

Universal tips for automatic pipettes

SCHARLAU

Full range of Scharlau Polypropylene tips. Compatible with most brands of automatic pipettes (Biohit, Brand, Eppendorf, Finnpiquette, Gilson, Socorex, etc). Available in bags, autoclavable racks, radiation sterilized racks and individually packed sterile tips.



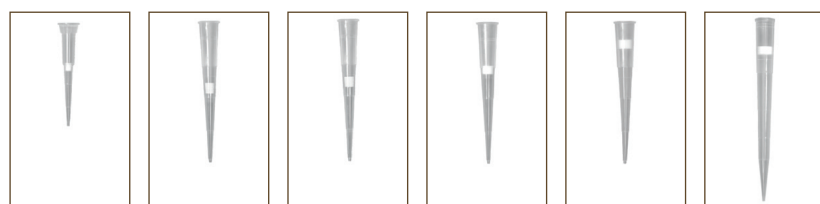
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000P5300-2 000P1000-1
000P1000-2 000PC1000-1
000PC1000-2 000P5000-1

VOLUME (µL)	TYPE	COLOUR	PRESENTATION	PACK (U.)	ART. NO.
0.2-10	Universal	Natural	Bag	1.000	000P0210-1
0.2-10	Universal	Natural	Rack	10x96	000P0210-2
0.5-20	Universal	Natural	Bag	1.000	000P0520-1
0.5-20	Universal	Natural	Rack	10x96	000P0520-2
5-200	Universal	Yellow	Bag	1.000	000P5200-1
5-200	Universal	Yellow	Rack	10x96	000P5200-2
5-200	Eppendorf	Yellow	Bag	1.000	00PC5200-1
5-200	Eppendorf	Yellow	Rack	10x96	00PC5200-2
5-300	Universal	Natural	Bag	1.000	000P5300-1
5-300	Universal	Natural	Rack	10x96	000P5300-2
100-1.000	Universal	Blue	Bag	1.000	000P1000-1
100-1.000	Universal	Blue	Rack	8x60	000P1000-2
100-1.000	Eppendorf type	Blue	Bag	1.000	00PC1000-1
100-1.000	Eppendorf type	Blue	Rack	8x60	00PC1000-2
1.000-5.000	Universal	Natural	Bag	250	000P5000-1

Filter tips for automatic pipettes

SCHARLAU

Highly transparent graduated filter tips made of virgin polypropylene. Free of DNase, RNase and metals. Non pyrogenic. Autoclavables. Compatibles with the main brands of automatic pipettes (Gilson, Eppendorf, Brand, Biohit, Vitlab, Kartell, etc.).



00PF0110-2 000PF130-2 000PF150-2 00PF1100-2 00PF1200-2 PF10010002

VOLUME (µL)	PRESENTATION	COLOUR	PACK (U.)	ART. NO.
0.1-10	Rack	Natural	10x96	00PF0110-2
1-30	Rack	Natural	10x96	000PF130-2
1-50	Rack	Natural	10x96	000PF150-2
1-100	Rack	Natural	10x96	00PF1100-2
1-200	Rack	Natural	10x96	00PF1200-2
1000-10000	Rack	Natural	10x96	PF10010002



Graduated plastic Pasteur pipettes
DELTA LAB

PE Pasteur pipettes. Ideal for transferring and dispensing any type of liquid. Available sterile and graduated up to 1 and 3 ml respectively.

CAPACITY (ML)	LENGTH (MM)	STERILE	PACK (U.)	ART. NO.
5	155	No	500	027-200003
5	155	Yes	500	027-200004
7	155	No	500	027-200006
7	155	Yes	500	027-200062



PP flasks with screw cap
SCHARLAU

Urine containers with screw cap made in PP. With writing surface. Available in two capacities.

DESCRIPTION	CAPACITY (ML)	EXT. DIM. Ø X H (MM)	STERILE	PACK (U.)	ART. NO.
With assembled cap	60	38x65	No	1.000	PSC0603000
Sterile with assembled cap	60	38x65	Yes	1.000	PSC0603001
With separated cap	150	58x72	No	1.000	PUC1501000
Sterile with assembled cap	150	58x72	Yes	1.000	PUC1501001



Wide mouth flasks

Cylindrical flasks, made of high density polyethylene with screw cap and stopper.

PRESENTATION	CAP. (ML)	INT. Ø X H. (MM)	PACK (U.)	ART. NO.
Bulk	500	70x107	50	425-001566
	1.000	85x128	20	425-001567
	2.000 with handle	65x290	34	027-408001
Sterile individual bag	500	67x131	120	00202823.1
	1.000	86x157	50	00202828.G
	2.000 with handle	65x290	34	027408001O
NON sterile individual bag	500	67x131	120	027-202823
	1.000	86x157	50	027-202828
	2.000 with handle	65x290	34	0274080011



Stackable containers

Drums for liquids made of HDPE. Resistant to most chemical products. Stackable containers with self seal cap.

CAPACITY (L)	COLOUR	THREAD	PACK (U.)	ART. NO.
5	Blue	S50	1	343-005NMA
10	Blue	S50	1	343-010NMA
25	Blue	S60	1	343-025NMA
5	Natural	S50	1	343-005NMN
10	Natural	S50	1	343-010NMN
25	Natural	S60	1	343-025NMN



Sterile plastic syringes 2 pieces

Made of polypropylene/polyethylene. 2 parts. Green plunger and very clear body. High contrast black graduation. Latex and silicone free. Without needle.

TYPE	VOLUME (ML)	PACK (U.)	ART. NO.
Luer syringe, central	1	100	009166017V
Luer syringe, central	2	100	004606027V
Luer syringe, eccentric	5	100	004606051V
Luer syringe, eccentric	10	100	004606108V
Luer syringe, eccentric	20	100	004606205V
Luer Lock syringe, central	2	100	004606701V
Luer Lock syringe, central	5	100	004606710V
Luer Lock syringe, central	10	100	004606728V
Luer Lock syringe, central	20	100	004606736V



Sterile plastic syringes 3 pieces without needle

Three pieces syringe, sterile, without needle, intended for a single use, for injectable solution applications and blood extraction.

TYPE	VOLUME (ML)	PACK (U.)	ART. NO.
Tuberculin syringe	1	100	140-014360
Luer syringe, central	2	100	140-015649
Luer syringe, central	5	100	140-015651
Luer syringe, eccentric	10	100	140-015656
Luer syringe, central	10	100	140-015652
Luer syringe, eccentric	20	100	140-015659
Luer syringe, eccentric	20	50	0012HL0020
Luer syringe, eccentric	50	30	140-015671
Luer syringe, eccentric	50	1	0012HL0050
Luer lock syringe, central	50	30	140-015675
Feeding Syringe (for catheter)	50	30	140-015679
Feeding Syringe (for catheter)	50	1	0012HA0050



pH indicator strips
SCHARLAU

Anti-drip strips produce an extremely clear colour change that is durable and readable until the strips dry out.

DESCRIPTION	PACK (U.)	ART. NO.
pH indicator strips 4-10. Readable at intervals of 0.5 unit pH. 100 strips per pack.	1	TP0410000S
pH indicator strips 7-14. Readable at intervals of 0.5 unit pH. 100 strips per pack.	1	TP7514000S
pH indicator strips 0-6. Readable at intervals of 0.5 unit pH. 100 strips per pack.	1	TP0006000S
pH indicator strips 2-9. Readable at intervals of 0.5 unit pH. 100 strips per pack.	1	TP0209000S



pH indicator strips - 4 pads
SCHARLAU

Scharlab's pH indicator strips are prepared as a non-bleed system and therefore the resultant colour change remains readable far longer until the pad is dry. They provide precise pH values as the different colours do not mix at the point of testing. These 4 pad pH indicator strips provide more accurate pH readings.

- Fast pH measurements.
- Accurate and reliable.
- Non-bleeding.
- Convenient for on-site analysis.
- Optimum results.

DESCRIPTION	PACK (U.)	ART. NO.
Universal Indicator Strips pH 0-14, 4 pads. 100 strips per pack.	1	TP0014004S



Centrifuge tubes of 15 and 50 ml
SCHARLAU

Polypropylene centrifuge tubes. Highly transparent, silkscreened graduation and writing surface. Free of DNase and RNase. Non pyrogenic. Resistant up to 12.000RCF. Autoclavables. Available in bulk or individual bag.

DESCRIPTION	Ø EXT. X H (MM)	RESIST. CENTRIF. (G)	STERILE	PACK (U.)	ART. NO.
Tube of 15 ml	21x120	–	No	1.000	PCT0151000
Tube of 15 ml sterile	21x120	–	Yes	1x1.000 (individual bag)	PCT0151002
Tube of 50 ml	28x116	12.000	No	1.000	PCT0501000
Tube of 50 ml	28x116	12.000	Yes	1x1.000 (individual bag)	PCT0501002
Tube of 50 ml with self-standing	28x116	12.000	No	1.000	PCT0502000
Tube of 50 ml with self-standing	28x116	12.000	Yes	1x1.000 (individual bag)	PCT0502002



Centrifuge Consul 21
ORTOALRESA

High capacity on a bench top centrifuge offering several advantages to the operator, until now exclusively available on research devices . The TFT touch screen makes value selection easy, including timer, RPM, RCF, acceleration and braking all on one screen. The user menu, allows the customization of several values as open lid, RPM/ RCF locking throughout centrifugation, countdown, etc. Throughout centrifugation, a graph shows the operator the current status as well as program end time.

MODEL	REFRIGERATED	DIM. WXHXD (MM)	WEIGHT (KG)	VOLTAGE (V)	FREQUENCY (HZ)	CONSUMPTION (W)	PACK (U.)	ART. NO.
Consul 21	No	620x390x490	47	220-240	50-60	660	1	095-0CE111



Centrifuge Digtor 21
ORTOALRESA

The centrifuge Digtor 21 is a versatile device, for research, biotechnology, quality control, hospitals, etc. It provides several advantages such as the incorporation of a TFT touch screen allowing the operator the higher autonomy, controlling the separation, as well as a selectable energy-saving system. RCF values are always shown in real time on the screen, automatically based on accessory selection, no data introduction is required.

MODEL	REFRIGERATED	DIM. WXHXD (MM)	WEIGHT (KG)	VOLTAGE (V)	FREQUENCY (HZ)	CONSUMPTION (W)	PACK (U.)	ART. NO.
Digtor 21	No	650x390x540	50	220-240	50-60	1.000	1	095-0CE112



Ask us about the possibilities for rotor combination and adaptors best suited to your technical needs.

See our full range of centrifuges at scharlab.com.





T 18 digital ULTRA-TURRAX® IKA®

Competitively priced dispersing instrument for volumes from 1 to 1500 ml (H₂O) with digital speed display. It offers a wide speed range from 500 to 25000 min⁻¹ that enables users to work at high circumferential speeds even with a small rotor Ø. A broad choice of dispersing elements guarantees a wide range of applications.

- Digital speed display.
- Electronic speed control.
- Electronic overload protection.
- Stainless steel dispersing elements can be cleaned quickly and easily.
- Plastic disposable dispersing elements are available in 2 sizes.
- Error code display.
- Quiet operation.

Motor rating input / output: 500/300 W.
 Min. / max. volume (H₂O): 100 to 1500 ml.
 Max. viscosity: 5000 mPas.
 Speed range: 500 to 25000 min⁻¹.
 Speed display: LED.
 Noise without element: 73 dB (A).
 Dimensions (WxHxD): 100x275x68 mm.
 Weight: 2,5 kg.
 Protection class acc. to DIN EN 60529: IP 20.
 Main supply: 200 to 240V, 50/60 Hz.

The variety of media to be processed also requires a variety of rotor-stator configurations and seals. In many cases it is necessary to subsequently use two dispersing elements, for pre-crushing and fine crushing. The plug-in connectors facilitate the exchange of the dispersing elements.

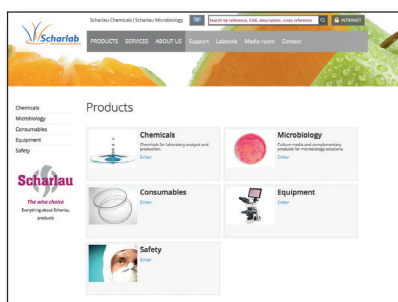
TYPE	DESCRIPTION	PACK (U.)	ART. NO.
T 18 digital ULTRA-TURRAX®	Basic device without accessories	1	0223720000

Dispersing element for T 18 digital ULTRA TURRAX® IKA®

TYPE	RANGE (ML)	Ø STATOR (MM)	Ø ROTOR (MM)	CIRCUMF. SPEED (M/S)	MAX./MIN. IMMERSION (MM)	FINAL SUSPENSION (µM)	FINAL EMULSION (µM)	PACK (U.)	ART. NO.
S 18 N-19 G	10 to 1500	19	12.7	15.9	35/170	10 to 50	1 to 10	1	022L004640



To access updated information,
 use the search in the tree directory, at scharlab.com





Aluminium hot plate stirrer ARE

VELP

The ARE has an aluminium alloy heating plate coated with a protective coating in order to ensure uniform heat distribution and excellent resistance to chemicals.

SPEED (RPM)	STIRRING VOL. (L)	TEMP. (°C)	Ø PLATE (MM)	POWER (W)	WEIGHT (KG)	DIM. WXHxD (MM)	PACK (U.)	ART. NO.
Up to 1500	Up to 15	Up to 370	155	630	2.6	165x115x280	1	0F20500162



Heating magnetic stirrer AREX Digital

VELP

The AREX Digital is the state-of-the-art hot plate stirrer with aluminium alloy top to provide uniform heat distribution over the entire surface, coated with a protective ceramic layer that ensures ease of cleaning and excellent resistance to chemicals, scratches and abrasions.

This hot plate stirrer ensures precise thermoregulation of the heating plate as well as a high degree of reliability and safety.

AREX Digital offers the most advanced technology, as it is equipped with digital display to finely set and monitor the stirring speed and the temperature.

It comes with the external probe PT100 in a ready-to-use solution, for direct control of the temperature of the liquid up to 250 °C, with an accuracy of ±1.0 °C.

MODEL	SPEED (RPM)	STIRRING VOL. (L)	TEMP. (°C)	Ø PLATE (MM)	POWER (W)	WEIGHT (KG)	DIM. WXHxD (MM)	PACK (U.)	ART. NO.
AREX digital	Up to 1500	Up to 20	Up to 370	155	630	2.6	165x115x280	1	SA20500411



Stirrer Vortex ZX4

VELP

Its technopolymer structure ensures optimum chemical resistance and enhanced handling. The ergonomic and highly innovative design ensures excellent stability usable on many surfaces.

The ZX4 is an advanced and modern vortex mixer with adjustable stirring speed and two operating modes sensor or continuous. Both ZX4 and TX4, thanks to the revolutionary IR sensor mode, where an infrared system (IR) detects the presence of the test tube and the vortex mixer automatically starts vibrating “No press, No stress!”

➤  See our full range of Vortex stirrers at scharlab.com.

SPEED (RPM)	WEIGHT (KG)	DIM. WXHxD (MM)	PACK (U.)	ART. NO.
Up to 3000	2.7	150x130x165	1	0F202A0280



Solvent extractors SER148/3, SER148/6 and hydrolysis unit HU6 VELP®

The SER 148/3 and SER 148/6 can be used to separate a substance or a group of elements (e.g. fat) from solid and semi-solid samples according to the Randall technique (consisting of Immersion, washing and solvent Recovery). The SER 148 Series is a semi-automatic solution with no compromises on operator safety (IP55) and solvent consumption also guaranteeing a limited cost per analysis.

Robust design and large installation base make the SER 148 Series the reliable choice for any laboratory aiming at reducing the time per analysis compared to the traditional Soxhlet method. As for the automatic version, the main field of application is the determination of the content of soluble products such as fats, detergents, plasticizers and pesticides in food, animal feeds, detergents, rubber and plastic formulas, pharmaceutical products and soil.

- Up to 5 times faster than traditional Soxhlet (hot solvent vs. cold solvent).
- Low solvent consumption (high solvent recovery, up to 75%).
- Limited cost per analysis.
- Select from 29 on-board empty programs.
- Two models available to match sample load.

- SER 148/3, a 3-position solvent extraction system.
- SER 148/6, a 6-position solvent extraction system.
- IP 55 protection from particles and liquids.

The HU 6 offers the optimum solution for the acid hydrolysis of food and feed samples prior to solvent extraction for total fat analysis.

MODEL	POSITIONS	POWER (W)	WEIGHT (KG)	DIM. WXHxD (MM)	PACK (U.)	ART. NO.
SER148/3	3	500	30	480x620x390	1	043-100240
SER148/6	6	950	40	700x620x390	1	043-100242
HU6	6	1350	15,5	355x590x450	1	0F30300110



Accessories included with the extractors

DESCRIPTION	PACK (U.)	ART. NO.
Extractions cups for SER 148/3	1	0A00001141
Extractions cups for SER 148/6	6	0A00000142
Extraction thimbles 33x80 mm	25	0CM0111148
Extraction thimbles holders	6	0A00001142
Inlet tube	1	0010000280
Heat shield for SER 148/3	1	0040000210
Heat shield for SER 148/6	1	0040000220
Butyl seals	1	0010000009
Viton® seals	1	0010000008



Solvent extractors SER 158

VELP®

Fully automatic: immersion, extraction, washing, recovery and cooling.
Automatic addition of solvent.
Two models with 3 or 6 positions.
Sample size: 0.5 to 15 g.
System "Load & Go" operation and self-elevation end to prevent burning of the sample.
7" colour touch screen with removable control panel with lighting.
Heatable element: ceramic.
Condenser: Titanium.
Suitable for all types of solvents.
High recovery rate (>90%).
Reproducibility: ≤1%.
3xUSB and Ethernet.
TEMS Saving Technology™.

MODEL	POSITIONS	NUMBER OF SAMPLES/DAY	SCALABILITY	DIM. WXHXD (MM)	POWER (W)	PACK (U.)	ART. NO.
SER 158/3	3	21	Up to 4 units. 12 positions	358x555x570	1500	1	0F303A0390
SER 158/6	6	42	Up to 4 units. 24 positions	546x555x570	1500	1	0F303A0380

Accessories included with extractors:

DESCRIPTION	PACK (U.)	ART. NO.
Extraction cup Ø 56x120 mm	3	0A00000290
Cellulose thimbles 33x80 mm	25	0A00000295
Extraction thimbles holder Ø 33 mm	1	0A00000312
Inlet water tube	1	0010000280
Boiling stones, 80 g	1	0A00000305
PTFE tube Ø 4x6 mm	1	0010002866
Connection 1/8 NPT - tube 6x4	1	0010006054
Grey butyl seal	3	0A00000298
Green viton	3	0A00000297



Rotary evaporators RC900

KNF NEUBERGER

Designed for day-to-day use focused on practical needs. With the RC 900, rotary evaporation is much easier and safer. This effective system for the most demanding applications stands out due to its intuitive and useful features that provide the best possible support for day-to-day work in the laboratory. Reliability, safety of use and accuracy are taken for granted in the RC 900.

Heating bath temperature: 20-180 °C.

Coolant supply parameters (refrigerated condenser)

- Maximum pressure: 3 bar
- Operating temperature: -15 °C +20 °C
- Coolant coated area: 1230 cm²

Evaporating flask parameters

- Size flask: 50-3000 ml
- Speed: 25-250 rpm
- Length of movement: 150 mm
- Lifting speed: ca. 38 mm/s

RC 900

- No glass (footprint): 431x447x464 mm
- With glass: 487x447x823 mm

Remote control. Wireless range: approx. 50 m unhindered.

MODEL	DESCRIPTION	PACK (U.)	ART. NO.
RC 900	Rotary evaporator with a 500 ml receiving flask and 1 liter evaporating flask	1	0000SC900



Rotary evaporators Hei-VAP Value HEIDOLPH

The release steam pipe eliminates glass breakage and significantly reduces the cost of spares.
 The vacuum seal is chemically resistant for years of operation so that the parts budget is reduced up to 75%.
 The flange is made of chemically resistant PPS. It reduces corrosion, maintenance and spare parts costs to a minimum.
 The bath safety shuts down if the temperature exceeds 5 °C or is dry.
 210 °C bath with safety handles and dispenser allows flasks of up to 5 litres. Detachable Panel allows maximum operational safety from outside a closed hood.
 The power cable coupling the bath meets protection class IP67 to prevent corrosion and short circuits.
 A separate on/off button prevents unintentional heating. The button is illuminated for visual control.
 A metallic support between the base hot bath and prevents instability of the evaporator bath.

For all standard applications.
 With elevator manual.
 Setting the bath temperature and rotation speed: scale.
 Large dial controls for setting rotation speed and bath temperature.
 Optional: manual vacuum controller.
 The Hei-VAP Value models do not incorporate a digital display.
 Weight: 16 kg (without glass).
 Dimensions WxHxD: 490x430x395 mm.

GLASS TYPE	VERSION	PACK (U.)	ART. NO.
G1 diagonal	Standard	1	0195560011
G1 diagonal	Coated	1	0195600111
G3 vertical	Standard	1	0195560013
G3 vertical	Coated	1	0195600131
G5 Dry Ice Condenser	Standard	1	0195560015
G5 Dry Ice Condenser	Coated	1	0195600151
G6 Vertical for Reflux	Standard	1	0195560016
G6 Vertical for Reflux	Coated	1	0195600161



Laboratory blenders WARING

Switch settings: 2 speeds (22000/18000min⁻¹), 3 min mechanical timer.
 Motor housing: epoxy coated.
 Container: stainless steel or glass, with handle and 2-piece vinly and styrene lid.
 Height: approx. 40 cm.
 Weight: approx. 5.9 kg.
 Mains supply: 230 V.

MODEL	DESCRIPTION	CAP. (L)	PACK (U.)	ART. NO.
8010G	Heat-resistant glass container	1.2	1	000008010G
8010S	Stainless steel container	1	1	000008010S



**ENTRIS analytical and precision balances
SARTORIUS**

Economic high precision balances.
Monolithic weigh cell ensures long-term precision.
Embedded applications: weighing, density, percent, counting, animal weighing and conversion.
Keys with integrated functions.
Backlit high-contrast display.
Level indicator glass bubble for centering.
Selectable weighing units
Internal or external calibration models.
Multi-language.
RS232-C Interface 25-pin.
Power supply: 100-240 V / 50-60 Hz.

MODEL	READABILITY (MG)	WEIGHING CAP. (G)	REPEATABILITY (MG)	LINEARITY (MG)	TYPICAL STABILIZATION TIME (S)	Ø PLATE (MM)	DIM. WXHXD (MM)	CALIBRATION	PACK (U.)	ART. NO.
ENTRIS64-1S	0.1	60	0.1	0.2	2.5	Ø 90	230x330x303	External	1	ENTRIS64-1S
ENTRIS64i-1S	0.1	60	0.1	0.2	2.5	Ø 90	230x330x303	Internal	1	ENTRIS64i-1S
ENTRIS124-1S	0.1	120	0.1	0.2	2.5	Ø 90	230x330x303	External	1	ENTRIS124-1S
ENTRIS124i-1S	0.1	120	0.1	0.2	2.5	Ø 90	230x330x303	Internal	1	ENTRIS124i-1S
ENTRIS224-1S	0.1	220	0.1	0.2	2.5	Ø 90	230x330x303	External	1	ENTRIS224-1S
ENTRIS224i-1S	0.1	220	0.1	0.2	2.5	Ø 90	230x330x303	Internal	1	ENTRIS224i-1S



**Knife mill GRINDOMIX GM 300
RETSCH**

The knife mill GRINDOMIX GM 300 is the ideal instrument for the grinding and homogenization of foodstuffs. It allows to process sample volumes up to 4.5 litres quickly and reproducibly.
With four sharp, robust blades and a powerful motor which can reach temporary peaks of 3 kW, it is ideal for homogenizing substances with a high water, oil or fat content as well as for grinding dry, soft and medium-hard products. The GRINDOMIX GM 300 meets and exceeds all special laboratory and analytical requirements.

Efficient size reduction of up to 4,500 ml feed quantity due to a powerful 1.1 kW motor (peak power input >3 kW).

Pre- and fine-grinding in one mill: cutting action in regular mode, grinding by impact in reverse mode, pre-grinding in interval mode.
All parts which come into contact with the sample material are autoclavable.
Perfect adaptation to application requirements by variable speed from 500 to 4000 min⁻¹ with an increment of 100 min⁻¹.

Optional gravitation lid for automatic reduction of the grinding chamber volume 10 SOPs can be stored.

Supplied complete with 5 litres grinding container of autoclavable plastic, standard lid, standard knife and scraper.

Technical Data:

- Final fineness: <300 µm
- Feed size: <130 mm
- Throughput / batch: up to approx. 4500 ml
- Dimensions (WxDxH): 440 x 440 x 340 mm
- Weight: approx. 30 kg
- Mains supply: 220 to 230 V, 50 to 60 Hz

DESCRIPTION	PACK (U.)	ART. NO.
Knife Mill GRINDOMIX GM 300	1	0202520001



Sample concentrator

TECHNE

The sample concentrator is suitable for the concentration of multiple samples in a heating block, using a system of low-pressure injection of inert gas (usually nitrogen) on the surface of the sample, which in combination with the heating block produces ideal conditions for a rapid and efficient evaporation. The gas injection is performed through a needle inserted into a silicone membrane, which is adjustable in height by a precision rack system.

The sample concentrator includes gas chamber and the tube holder. Needles, heat block heating and aluminium blocks must be ordered separately.

DESCRIPTION	MAX. GAS PRESSURE (PSI)	MAX. VERTICAL PATH (MM)	MAX. GAS FLOW (L/MIN)	DIM. WXHXD (MM)	WEIGHT (KG)	PACK (U.)	ART. NO.
Sample concentrator for use with heating block 3 places	2	320	15	240x530x295	5	1	000FSC400D

Accessories

DESCRIPTION	PACK (U.)	ART. NO.
Pack of needles, 76 mm length	100	00000F7209
Pack of needles, 127 mm length	100	00000F7210
Cushion seal gas chamber	1	0006101604

Thermal blocks

DESCRIPTION	PACK (U.)	ART. NO.
Thermal block ambient +5 °C a 100 °C, 3 blocks	1	000DB100/3
Thermal block ambient +5 °C a 200 °C, 3 blocks	1	000DB200/3

Aluminium blocks

DESCRIPTION	DIM. WXHXD (MM)	PACK (U.)	ART. NO.
Aluminium block for 20 tubes of 12 mm Ø. Includes a hole for a thermometer	95x75x50	1	00000F3504
Aluminium block for 12 tubes of 16 mm Ø. Includes a hole for a thermometer	95x75x50	1	00000F3507

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