

1 Silylation reagents - MSTFA

N-methyl-N-trimethylsilyl-trifluoroacetamide

MACHEREY-NAGEL

m.w. 199.1, Bp 70°C (75mm Hg), density d_{20°/4°} = 1.11MSTFA: R' = CF₃, R'' = CH₃

the most volatile trimethylsilyl amide available

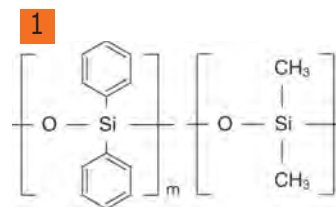
very strong TMS donor which does not cause any noticeable fouling of the FID burning chamber even after long-time measuring series

The already good solution characteristics can be improved by addition of submolar quantities of protic solvents (e.g. TFA for extremely polar compounds such as hydrochlorides) or pyridine (e.g. for carbohydrates).

recommended application: carboxylic acids, hydroxy and ketocarboxylic acids, amino acids, amines, alcohols, polyalcohols, sugars, mercaptans and similar compounds with active hydrogen atoms. Even amine hydrochlorides can be silylated directly.

advantages: complete reaction with high reaction rates, even without a catalyst (1 to 2% TMCS or TSIM)

the by-product of the reaction (N-methyltrifluoroacetamide) features high volatility and short retention time.



Description	Capacity ml	PK	Cat. No.
MSTFA	1	20	7.055 892
MSTFA	10	1	6.704 091
MSTFA	10	5	6.085 475
MSTFA	100	1	6.227 683
MSTFA	50	6	6.227 450
MSTFA	100	6	4.001 493
MSTFA	100	12	4.001 492

Due to their purpose, derivatisation reagents are very reactive substances. For this reason they should be stored cool and protected from moisture.

The derivatisation reagents are supplied in vials with crimp caps for easy access with a syringe. Vials with pierced sealing disks have limited stability and should be used soon.

Silylation with MSTFA

Procedure:

Dissolve 10 – 15 mg sample in 0.8 ml solvent, then add 0.2 ml MSTFA. The reaction mixture can be heated to 60 – 70 °C for up to 1 h and can be analysed directly. If TFA is used as a solvent, proceed as follows [M. Donike, J. Chromatogr. 85 (1973) 1 – 7]: Dissolve 1 – 2 mg sample in 100 µl TFA. Dropwise add 0.9 ml MSTFA.

After cooling the sample can be chromatographed directly.

MN Appl. No. 213111

Ready-to-use layers for TLC

Support materials for TLC ready-to-use layers

MACHEREY-NAGEL

Glass plates: glass, ~ 1.3mm thick, high requirements for weight, packaging and storage, ideal torsional strength, high temperature stability, susceptible to breakage, can not be cut with scissors, high resistance against solvents, mineral acids and conc. ammonia, suitability for aqueous detection reagents depends on the phase

POLYGRAM®: polyester, ~ 0.2mm thick, low requirements for weight, packaging and storage, low torsional strength, max. 185°C temperature stability, not susceptible to breakage, can be cut with scissors, high resistance against solvents, mineral acids and conc. ammonia, very suitable for aqueous detection reagents

ALUGRAM®: aluminium, ~ 0.15mm thick, low requirements for weight, packaging and storage, relatively high torsional strength, high temperature stability, not susceptible to breakage, can be cut with scissors, high resistance against solvents, low resistance against mineral acids and conc. ammonia, limited suitable for aqueous detection reagents

ADAMANT unmodified standard silica layers for TLC

silica 60, specific surface (BET) $\sim 500\text{m}^2/\text{g}$, mean pore size 60\AA , specific pore volume 0.75ml/g , particle size 5 to $17\mu\text{m}$

MACHERY-NAGEL

outstanding hardness and abrasion resistance due to an optimized binder system

increased separation efficiency due to an optimized particle size distribution

high suitability for trace analyses resulting from a UV indicator with brilliance and a low-noise background of the layer

available as glass plates with or without fluorescent indicator (UV254)

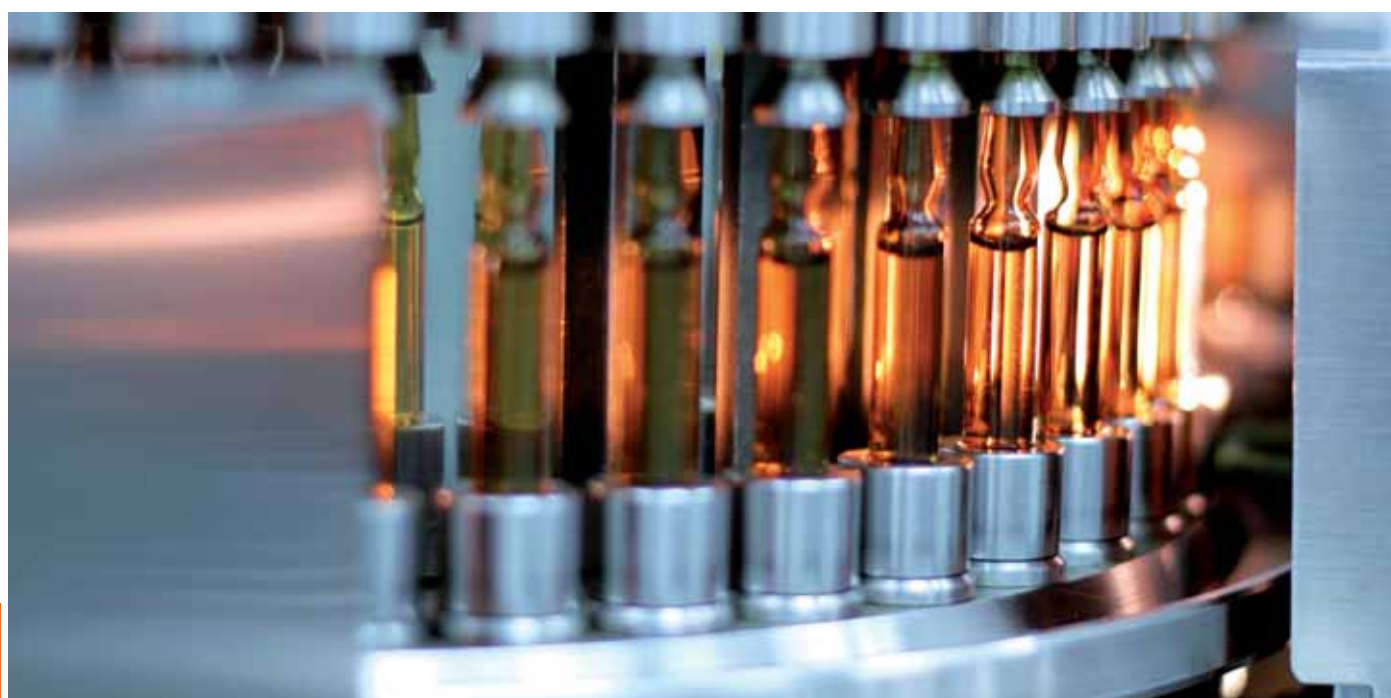
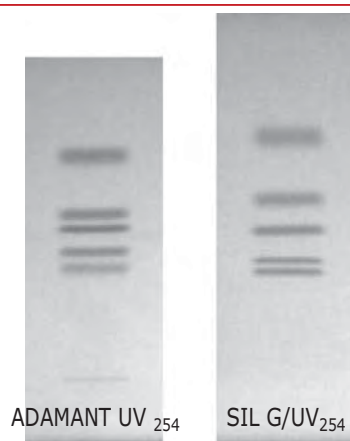
Type	Plate format cm	Path length mm	PK	Cat. No.
ADAMANT UV254	2,5 x 7,5	0.25	100	4.005 060
ADAMANT	5 x 10	0.25	50	4.005 067
ADAMANT UV254	5 x 10	0.25	50	4.005 061
ADAMANT	5 x 10	0.25	200	4.005 068
ADAMANT UV254	5 x 10	0.25	200	4.005 062
ADAMANT UV254	5 x 20	0.25	100	4.005 063
ADAMANT	10 x 10	0.25	25	4.005 069
ADAMANT UV254	10 x 10	0.25	25	4.005 064
ADAMANT UV254	10 x 20	0.25	50	4.005 065
ADAMANT	20 x 20	0.25	25	4.005 070
ADAMANT UV254	20 x 20	0.25	25	4.005 066
ADAMANT	10 x 20	0.25	25	9.003 472

Separation of steroids

Layers: ADAMANT UV₂₅₄, SIL G/UV₂₅₄; eluent: trichloromethane - methanol (97:3)
Developing time: 10 minutes; 0.1 % solution in CHCl₃

R_f	ADAMANT	SIL G
Cortisone	0.37	0.27
Corticosterone	0.43	0.30
Testosterone	0.50	0.39
Desoxycorticosterone	0.55	0.46
Progesterone	0.73	0.62
Migration distance	5.0 cm	5.7 cm

MN Appl. No. 402930



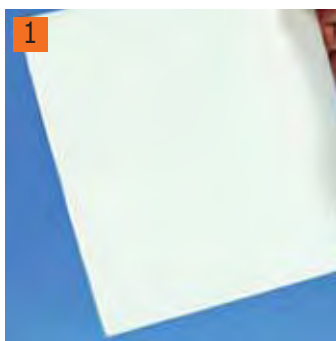
SIL G unmodified standard silica layers for TLC, glass plates/ POLYGRAM®

glass plates, POLYGRAM®, ALUGRAM®

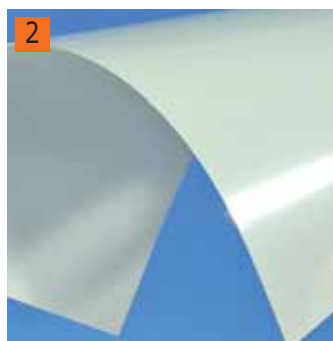
MACHEREY-NAGEL

silica 60, specific surface (BET) ~500m²/g, mean pore size 60 Å, specific pore volume 0.75 ml/g, particle size 5 to 17µm; standard grade; thickness of layer for analytical plates 0.25mm, for preparative plates 0.5 and 1mm; for 2mm preparative layers a slightly coarser material is used indicators: manganese activated zinc silicate with green fluorescence for short-wave UV (254nm); special inorganic fluorescent pigment with blue fluorescence for long-wave UV (366nm) binders: highly polymeric products, which are stable in almost all organic solvents and resistant towards aggressive visualisation reagents; binder system for Polygram® sheets is also completely stable in purely aqueous eluents available as glass plates, Polygram polyester sheets and Alugram aluminium sheets. Available as glass plates with or without fluorescent indicator (UV254).

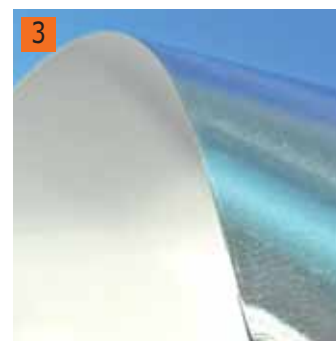
Type	Plate format	Path length	PK	Cat. No.
	cm	mm		
Glass plates SIL G-25 UV ₂₅₄	2.5 x 7.5	0.25	100	4.004 850 1
Glass plates SIL G-25	5 x 10	0.25	50	6.230 729
Glass plates SIL G-25	5 x 10	0.25	50	4.004 848
Glass plates SIL G-25	5 x 10	0.25	200	4.004 847
Glass plates SIL G-25	5 x 10	0.25	200	4.004 849
Glass plates SIL G-25	5 x 20	0.25	100	4.004 846
Glass plates SIL G-25 UV ₂₅₄	5 x 20	0.25	100	6.232 660
Glass plates SIL G-25 UV ₂₅₄	10 x 10	0.25	25	9.003 474
Glass plates SIL G-25	10 x 20	0.25	50	6.227 917
Glass plates SIL G-25 UV ₂₅₄	10 x 20	0.25	50	6.230 274
Glass plates SIL G-25	20 x 20	0.25	25	9.003 491
Glass plates SIL G-25 UV ₂₅₄	20 x 20	0.25	25	9.003 492
Glass plates SIL G-100	20 x 20	1.00	15	4.004 853
Glass plates SIL G-100 UV ₂₅₄	20 x 20	1.00	15	7.300 555
Glass plates SIL G-200	20 x 20	2.00	12	6.224 417
Glass plates SIL G-200 UV ₂₅₄	20 x 20	2.00	12	4.004 854
POLYGRAM® polyester sheets SIL G	2.5 x 7.5	0.20	200	4.004 827 2
POLYGRAM® polyester sheets SIL G UV ₂₅₄	2.5 x 7.5	0.20	200	4.004 826
POLYGRAM® polyester sheets SIL G	4 x 8	0.20	50	4.004 825
POLYGRAM® polyester sheets SIL G UV ₂₅₄	4 x 8	0.20	50	9.003 493
POLYGRAM® polyester sheets SIL G	5 x 20	0.20	50	6.803 651
POLYGRAM® polyester sheets SIL G UV ₂₅₄	5 x 20	0.20	50	9.003 476
POLYGRAM® polyester sheets SIL G	20 x 20	0.20	25	6.202 190
POLYGRAM® polyester sheets SIL G UV ₂₅₄	20 x 20	0.20	25	9.003 494
POLYGRAM® polyester sheets SIL G	40 x 20	0.20	25	4.004 822
POLYGRAM® polyester sheets SIL G UV ₂₅₄	40 x 20	0.20	25	4.004 824
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	2.5 x 7.5	0.20	200	4.005 043 3
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	4 x 8	0.20	50	9.003 496
ALUGRAM® aluminium sheets SIL G	5 x 7.5	0.20	20	4.005 042
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	5 x 7.5	0.20	20	6.227 948
ALUGRAM® aluminium sheets SIL G	5 x 10	0.20	50	6.802 883
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	5 x 10	0.20	50	9.003 477
ALUGRAM® aluminium sheets SIL G	5 x 20	0.20	50	7.084 918
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	5 x 20	0.20	50	9.003 478
ALUGRAM® aluminium sheets SIL G	10 x 20	0.20	20	4.005 052
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	10 x 20	0.20	20	6.233 568
ALUGRAM® aluminium sheets SIL G	20 x 20	0.20	25	7.059 745
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	20 x 20	0.20	25	9.003 497
ALUGRAM® aluminium sheets SIL G UV ₂₅₄	20 x 20	0.20	25	6.242 312
ALUGRAM® aluminium sheets SIL G	20 x 20	0.20	25	9.003 465



4.004 850



4.004 827



4.005 043



1 TLC plates, Silica gel 60 F 254

Merck

Material	Gel thickness	Width	Length	PK	Cat. No.
	mm				
Glass	0.25	20.0	20.0	25	9.130 050
Glass	0.25	10.0	20.0	50	9.130 051
Glass	0.25	5.0	20.0	100	9.130 052
Glass	0.25	5.0	20.0	25	9.130 053
Glass	0.25	5.0	10.0	200	9.130 054
Glass	0.25	5.0	10.0	25	9.130 055
Glass	0.25	2.5	7.5	100	9.130 056
Glass	0.25	2.5	7.5	500	9.130 057
Aluminium	0.20	20.0	20.0	25	9.130 058
Aluminium	0.20	5.0	10.0	50	9.130 059
Aluminium	0.20	5.0	7.5	20	9.130 060
Plastic	0.20	20.0	20.0	25	9.130 063

TLC plates

 Silica gel 60 F₂₅₄

Merck

Material	Gel thickness	Dimensions	PK	Cat. No.
	mm			
Glass backed	0.5	20 x 20	20	9.130 061
Glass backed	2	20 x 20	12	9.130 062



2 ALUGRAM® Nano-SIL unmodified Nano-silica layers for HPTLC

MACHEREY-NAGEL

ALUGRAM®
 Nano silica 60, specific surface (BET) ~ 500m²/g, mean pore size 60Å, specific pore volume 0.75ml/g, particle size 2 to 10µm. Indicator: manganese activated zinc silicate with green fluorescence for short-wave UV (254nm).

Binder: highly polymeric product, which is stable in almost all organic solvents and resistant towards aggressive visualisation reagents. Narrow fractionation of the silica particles allows sharper separations, shorter developing times, shorter migration distances, smaller samples and an increased detection sensitivity compared to SIL G plates.

Available as glass plates with or without fluorescent indicator (UV254).

Type	Plate format	Path length	PK	Cat. No.
	cm			
ALUGRAM® NANO-SIL G	5 x 20	0.20	50	4.005 044
ALUGRAM® NANO-SIL G UV254	5 x 20	0.20	50	6.227 900
ALUGRAM® NANO-SIL G	20 x 20	0.20	25	6.227 899
ALUGRAM® NANO-SIL G UV254	20 x 20	0.20	25	4.005 045

RP-18 W/UV254 octadecyl-modified nano silica layers for HPTLC

glass plates, ALUGRAM®

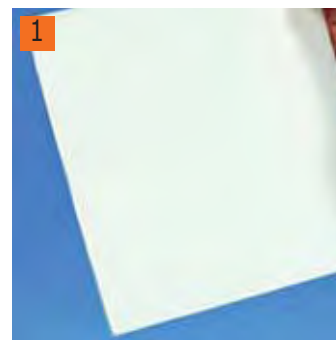
MACHEREY-NAGEL

base material: Nano-K silica 60, specific surface (BET) ~500m²/g, mean pore size 60Å, specific pore volume 0.75ml/g, particle size 2 to 10 µm; for preparative plates (1 mm thickness of layer) standard silica 60, particle size 5 to 17 µm, pH stability 2 to 10 indicator: acid-resistant product with a pale blue fluorescence for short-wave UV (254nm); UV-absorbing substances appear as dark-blue to black spots on a light-blue background; partial octadecyl modification, wettable with water, carbon content 14%. 18-100 normal phase or reversed phase separation modes with eluents from anhydrous solvents to mixtures with high concentrations of water (see figure); the relative polarity of the eluent determines the polarity of the layer.

Recommended application: aminophenols, barbiturates, preservatives, nucleobases, polycyclic aromatic hydrocarbons, steroids, tetracyclines, plasticizers (phthalates).

Available as glass plates with or without fluorescent indicator (UV254).

Type	Plate format cm	Path length mm	PK	Cat. No.
ALUGRAM® Glass plates RP-18 W UV ₂₅₄	5 x 20	0.25	50	4.004 880 1
ALUGRAM® Glass plates RP-18 W UV ₂₅₄	10 x 10	0.25	25	6.206 173
ALUGRAM® Glass plates RP-18 W UV ₂₅₄	10 x 20	0.25	50	4.004 879
ALUGRAM® Glass plates RP-18 W UV ₂₅₄	20 x 20	0.25	25	4.004 878
ALUGRAM® Glass plates RP-18 W UV ₂₅₄	20 x 20	1.00	15	4.004 881
ALUGRAM® aluminium sheets RP-18 W UV ₂₅₄	4 x 8	0.15	50	7.400 375 2
ALUGRAM® aluminium sheets RP-18 W UV ₂₅₄	5 x 10	0.15	50	6.901 143
ALUGRAM® aluminium sheets RP-18 W UV ₂₅₄	5 x 20	0.15	50	4.005 046
ALUGRAM® aluminium sheets RP-18 W UV ₂₅₄	10 x 10	0.15	25	4.005 047
ALUGRAM® aluminium sheets RP-18 W UV ₂₅₄	20 x 20	0.15	25	6.704 046



4.004 880



7.400 375

3 Aluminium oxide layers for TLC

Standard, rigid TLC plates in a choice of media, backing materials, and with dimensions as outlined below.

MACHEREY-NAGEL

Material	Gel thickness mm	Dimensions mm	PK	Cat. No.
POLYGRAM aluminium oxide*	0,2	200 x 200	25	9.003 495
ALUGRAM aluminium oxide*	0,2	200 x 200	25	9.003 498

*with 254 nm UV indicator





1 2 Chromatography paper/Ion exchange papers

Whatman chromatography papers are the most widely used papers for chromatography worldwide. This acceptance and usage reflects the purity, high quality and consistency of Whatman papers. These qualities are relied upon by chromatographers and essential to successful reproducible chromatography. Whatman chromatography paper media are made from specially selected cotton cellulose. They are rigorously quality controlled for characteristics important to the chromatographer and to ensure uniformity within the grade. GE Healthcare

1 Chr world standard chromatography paper. A smooth surface, 0.18 mm thick with a linear flow rate (water) of 130 mm/30 min. Good resolution for general analytical separations.

3MM Chr widely used as a blotting paper, 3MM Chr is used in both electrophoresis and for general chemistry. A medium thickness paper (0.34 mm) used extensively for general chromatography and electrophoresis. Flow rate is 130 mm/30 min.

3 Chr medium thickness paper (0.36 mm) with a flow rate of 130 mm/30 min. For general applications with medium/heavy solute loadings. Frequently used for separation of inorganic compounds and for electrophoresis.

17 Chr thick (0.92 mm) and highly absorbent paper with a very high flow rate of 190 mm/30 min. Suitable for the heaviest loadings and ideal for preparative paper chromatography and electrophoresis.

Ion exchange papers

DE81

A thin (0.20 mm) DEAE cellulose paper—a weakly basic anion exchanger with diethylaminoethyl functional groups. The ion exchange capacity is 1.7 $\mu\text{eq}/\text{cm}^2$ and flow rate is 95 mm/30 min. For use with reverse transcriptase assays and DNA polymerase.

SG81

A unique paper (0.27 mm thick) combining cellulose and large pore silica gel. Suitable for separations in which both partition and adsorption are important, including the separation of phospholipids, steroids, phenols and dyes. Flow rate is 110 mm/30 min.

P81

A thin (0.23 mm) cellulose phosphate paper. Strong cation exchanger of high capacity. Ion exchange capacity is 18.0 $\mu\text{eq}/\text{cm}^2$ and the flow rate is 125 mm/30 min. For use with protein kinase assay with peptide substrates.

Grade	Size	PK	Cat. No.
1Chr	100 x 300 mm	100	9.950 308
1Chr	200 x 200 mm	100	9.950 309
1Chr	250 x 250 mm	100	9.950 310
1Chr	460 x 570 mm	100	9.950 311
3MMChr	200 x 200 mm	100	9.950 312
3MMChr	315 x 355 mm	100	9.950 313
3Chr	460 x 570 mm	100	9.950 314
3MMChr	460 x 570 mm	100	9.950 371
3MMChr	580 x 680 mm	100	9.950 315
4Chr	460 x 570 mm	100	9.950 316
17Chr	460 x 570 mm	25	9.950 317
DE81	460 x 570 mm	25	9.950 318
SG81	460 x 570 mm	25	9.950 319
P81	460 x 570 mm	25	9.950 320



3 Chromatography paper, reels

Chromatography Paper 1 CHR

The standard chromatography paper. Good resolution for general analytical separations. Pure cellulose. Thickness 0.18mm. Capillary rise (water) 130mm/30 min. GE Healthcare

Chromatography Paper 3MM CHR

Used in electrophoresis, in general chemistry and as blotting paper. Pure cellulose. Thickness 0.34mm. Capillary rise (water) 130mm/30 min.

Grade	Width mm	Length mm	PK	Cat. No.
1Chr	10	1000	1	9.950 322
1Chr	20	1000	1	9.950 323
1Chr	30	1000	1	9.950 324
1Chr	40	1000	1	9.950 325
1Chr	50	1000	1	9.950 326
1Chr	100	1000	1	9.950 328
1Chr	150	1000	1	9.950 329
3MMChr	20	1000	1	9.950 327
3MMChr	100	1000	1	9.950 330
3MMChr	150	1000	1	9.950 331
3MMChr	190	1000	1	9.950 332
3MMChr	230	1000	1	9.950 333
3MMChr	270	1000	1	9.950 334

Chromatography strips

Divided into 12 bands, each of 15mm wide, for parallel separation of 12 samples.

GE Healthcare

Grade	Width mm	Length mm	PK	Cat. No.
1Chr CRL	110	213	100	9.950 321

1 Standard separating chamber with knob lid/ ground cover plate

With absolutely flat, chamber floor, ground flange rim and lid for all TLC plates up to 200mm x 200mm.

Other separating chambers available on request.

Type	PK	Cat. No.
Separating chamber with knob lid	1	9.020 160
Separating chamber with ground cover plate	1	9.020 173
Knob lid for 9.020 160	1	9.020 163
Glass cover disc for 9.020 173	1	9.020 177

2 Simultaneous developing chamber and DC accessories

MACHEREY-NAGEL

Type	PK	Cat. No.
DC simultaneous chamber for up to 5 plates, 20 x 20cm	1	9.003 500
Laboratory atomiser, glass with rubber bulb	1	4.004 909
Glass capillary 1µl	150	7.056 849
Outlining templates	2	4.004 903
Chromatography Paper MN 260, 7,5 x 17cm (for saturating)	100	4.004 907

3 Nano separating chambers, with knob/ stainless lid

The use of quantitative TLC on nano or HPTLC gel layer plates is increasing. Nano separating chambers have been developed for the more popular 100mm x 100mm and 200mm x 100mm plate formats and have all the advantages of standard separating chambers.

Type	PK	Cat. No.
Nano separating chamber 100mm x 100mm, with knob lid	1	9.020 210
Nano separating chamber 100mm x 100mm, with stainless steel lid	1	9.020 212
Nano stainless steel lid, 200mm x 100mm	1	9.020 117
Nano knob lid, 100mm x 100mm	1	9.020 211
Nano stainless steel lid, 100mm x 100mm	1	9.020 213
Nano filter paper for vapour conditioning the chamber, 210mm x 110mm, 25 sheets	25	9.020 214

4 H separating chamber

The H separating chambers make optimum use of HPTLC gel layer advantages. Small particle size 5µm, stringently controlled pore size and distribution, and more theoretical bases. Excellent value for money and can be supplied for time and cost saving in 50mm x 50mm plate format or traditional 100mm x 100mm format. Optimum separations are achieved even on the shortest runs.

Sarstedt (Desaga)

Type	Width mm	Length mm	PK	Cat. No.
H separation chamber	50	50	1	9.023 150
H separation chamber	100	100	1	9.023 160
Frit rods		50	5	9.023 955
Cover plate	50	50	1	9.023 956
Cover plate	100	100	1	9.023 957

5 Profi IONIC HairDryer PHT 30

3 heating levels, 3 cooling levels and 3 fan speeds giving 12 heating/ventilation combinations. Overheat protected. Removable inlet grille with filter. Supply requirement: 230V to 240V 50Hz, 1600W - 1800W.

Type	PK	Cat. No.
Profi Labdryer	1	9.106 809





1 Chromatography sprayer SG 1

Spraying with powerful and quiet pump. The finest spray is produced even when the battery power is low. Liquids, up to the viscosity of light oil, can be finely sprayed at the touch of a button. Particle diameter 5µm to 10µm with a throughput of 20ml/min. based on water. The reservoir bottle for the spray reagent is made of borosilicate glass. The bottle is screwed into the high-grade PTFE nozzle and can be changed in seconds. With quick-charging dock as a storage base. Overload protection enables continuous storage of the sprayer in the charging station. Supplied with battery, battery charger, bottle and nozzle.

Type	PK	Cat. No.
SG 1	1	9.539 045
Reservoir, 50 ml	10	9.539 046



2 Special atomiser, with rubber blowball

With rubber blowball for nebulising reagents. Can be connected to other compressed air supplies.

Type	PK	Cat. No.
Special atomiser	1	9.024 000



3 Test tube atomiser, glass

Glass atomiser for nebulising small amounts of reagents. Atomiser can be inserted in a 12ml test tube with a ground joint and held in position with a spring clip.

Type	PK	Cat. No.
Test tube atomiser	1	9.023 990



4 UV analysis lamps HP-UVIS®

For UV analysis without a darkroom. High-pressure mercury lamp emits very intense radiation at 366nm for fluorochemical analytical evaluation. Specially selected 254nm filters enable optimal contrast. Minimal footprint in spite of simultaneous observation points for two 200mm x 200mm plates. Inclined plate angle gives comfortable viewing. Dimensions (WxDxH) 325mm x 280mm x 475mm. Supply requirements 230V.

Type	PK	Cat. No.
HP-UVIS®	1	9.539 360



5 UV irradiation system BIO-LINK, BLX 254

- Compact and powerful, ideal for a broad range of applications
- Precise measurement and control technology, non-ageing UV sensors
- Choice for irradiation parameter energy or time
- Easy operation: Programme memory, storage of the last parameters, programme resumes after opening of the door, auto-restart after power failure
- Secure and stable construction, very easy to use
- Easy exchange of the UV tubes for wavelength change

Dimensions (WxDxH)

Housing: 350 x 360 x 305mm

Interior: 260 x 330 x 145mm

Type	Description	Tubes W	Wave-length nm	PK	Cat. No.
BLX-254	UV crosslinker	5 x 8	254	1	9.971 923

Other models available on request.

1 TLC Viewing cabinets, CN-6/ CN-15

Model CN-6:

- for one or two UV hand lamps model BVL-6; choice of combined wavelengths 254nm, 312nm and 365nm
- cabinet dimensions (WxDxH): 300mm x 280mm x 240mm; easy access also for large samples

Model CN-15:

- integral high intensity UV lamps, extra large capacity; easy access also for large samples; white-light bulb for normal observation
- removable bottom panel for use with an BETXF Professional Line transilluminator
- cabinet dimensions (W x D x H): 505mm x 415mm x 280mm



Type	Description	Tubes	Wave-length nm	PK	Cat. No.
		W			
CN-6	without UV handlamps	-	-	1	9.971 926
CN-15.LC*	with integrated UV tubes and white-light source	2 x 15	365 / 254	1	9.971 927

* Other models available on request.

2 TLC Imaging system BIO-CHROM II

NEW!

- Scientific imaging system for documentation and analysis of TLC plates
- Easy acquisition and storage of the data via PC
- High-intensity epi-UV illumination
- Easy access to the darkroom through large front-opening
- Extensive UV protection
- Removable bottom panel for optional use with an UV transilluminator

All models with the following standard components:

- Scientific s/w CCD camera with 1 MP resolution (4 MP EP) and USB 2.0 port
- High aperture zoom with UV/VIS spectral filter
- Darkroom CN-15 with 2 x 15W tubes 365nm, 2 x 15W tubes 254nm and white light source
- Light protecting hood and camera stand
- Free PC image acquisition and analysis software BIO-CAPT with basic modules for MW, densitometric and R(f) analyses



Type	Description	PK	Cat. No.
BIO-CHROM II	With standard components	1	7.930 261

3 Universal application and evaluation templates

Plexiglass. Simplifies application, marking and evaluation of thin layer chromatograms. Size 200mm x 200mm.

Type	PK	Cat. No.
Universal application and evaluation templates	1	9.020 131



4 Outlining templates

With limit stops for precise positioning of the plate on the template. Provide precise pipette guidance due to triangular apertures in a 5mm spaced grid, providing 9, 19 or 39 outlining points, depending on the size of the template. A non-slip coating means that the outlining template does not slide on the bench.

Width mm	Length mm	PK	Cat. No.
100	100	1	9.020 134
50	50	1	9.020 135
100	200	1	9.020 136
200	200	1	9.020 137



5 TLC plate cutter

For scoring and cutting glass backed TLC plates. For cost-effectiveness in plate use, or in order to give individual plates different derivatives after separation. Supplied with cutting ring and template.

Type	PK	Cat. No.
TLC plate cutter	1	9.539 041

