

13. Life Sciences Proteomics/ELISA

GENERAL CATALOGUE EDITION 20

BRANDplates® - A complete premium-quality line - for every application!

Microplates for Immunoassays (non-sterile)

Diagnosis of disease, pregnancy or verification of doping substances - many analyses in the modern laboratory are performed with immunological assays in microplates. They are characterized by their high specificity and provide the opportunity to detect the lowest concentrations of defined substances in complex liquids e.g. blood serum.

immunoGrade™ (high binding)

Optimized for the immobilization of IgG, highest binding capacity for molecules with mixed hydrophilic and hydrophobic regions. The surface of choice for the majority of standard ELISAs.

hydroGrade™

Strongly hydrophilic, high affinity to hydrophilic molecules like e.g., glycoproteins and peptides, antibodies with predominantly hydrophilic regions and nucleic acids.

lipoGrade™

Strongly hydrophobic (lipophilic), immobilization of biomolecules with predominantly hydrophobic regions. An alternative to the immunoGrade™ surface for the immobilization of molecules, e.g. lipoproteins or peptides.

HydroGrade™ and lipoGrade™ can be found in the online shop.

Non-treated (sterile or non-sterile)

Non-treated PS microplates are used in the most diversified application fields, e.g. homogenous standard assays and extensive screening assays. The hydrophobic characteristics of untreated PS are often of use in performing these applications! The new BRANDplates® range contains two types of non-treated microplates:

pureGrade™ (medium binding)

Non-treated, non-sterile surface. The standard plate for most applications. Particularly applicable for homogenous assays, screening, and in the field of storage.

pureGrade™ S

Non-treated surface, sterile. Sterilized via β -radiation. Especially suited for bacteriological assays.

Colours, wells and shapes:

- 96- and 384-well format
- standard or transparent bottom
- transparent, white or black
- Various well bottom shapes: U-, V-, F-, C-bottom for 96-well format
- clearly distinguishable via color code: blue embossed alphanumeric coding for 96-well standard plates.
- free from endotoxins (< 0.01 EU/ml), DNase, DNA, RNase, non-cytotoxic (according to ISO 10993)
- ANSI/SLAS format
- **non-sterile products without lid, please order separately**
- **sterile products comply with ISO 11137 and AAMI guidelines. A SAL of 10^{-6} is reached. Supplied individually wrapped with lid.**

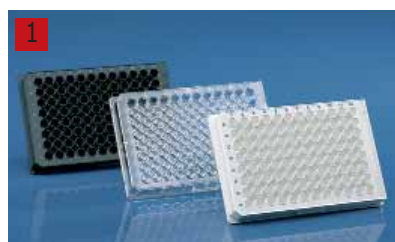
Get yourself familiar with the new range by using the BRANDplates® selection guide under www.brand.de.

1 ImmunoGrade™ (high binding)

PS, non-sterile. Optimized for the immobilization of IgG, standard ELISA assay.
384 Well platform on request.

BRAND

Description	Bottom shape/ Well volume μ l	PK	Cat. No.
96-well, transparent	U / 330	100	4.000 275
96-well, transparent	V / 360	100	4.000 276
96-well, transparent	F / 350	100	4.000 277
96-well, transparent	C / 350	100	4.000 278
96-well, white	U / 330	100	4.000 279
96-well, white	C / 350	100	4.000 280
96-well, black	U / 330	100	4.000 281
96-well, black	C / 350	100	7.635 711
96-well, black, transparent bottom	F / 330	100	4.000 282
96-well, black, transparent bottom	F / 330	5	7.644 453



4.000 282

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1 pureGrade™ (medium binding)

PS. Non-treated, non-sterile. For homogenous assays, screenings, storage, etc.
Other formats (384 well or 1536 well) on request or in the webshop.

BRAND



Description	Bottom shape/ Well volume µl	PK	Cat. No.
96-well, transparent	U / 330	100	4.000 238
96-well, transparent	V / 360	100	6.233 851
96-well, transparent	F / 350	100	6.231 785
96-well, transparent	C / 350	100	4.000 239
96-well, white	U / 330	100	4.000 240
96-well, white	F / 350	100	6.233 548
96-well, black	U / 330	100	4.000 241
96-well, black	F / 350	100	6.233 756
96-well, white, transparent bottom	F / 330	100	4.000 242
96-well, black, transparent bottom	F / 330	100	4.000 243
96-well, UV-transparent*	F / 350	50	9.408 976
96-well, UV-transparent*	F / 350	50	6.272 014

*slightly hydrophilized, not available in USA and Japan

2 pureGrade™ S

PS. Non-treated, sterile. For bacteriological assays, screenings, storage, etc.
Other formats (384 well or 1536 well) on request or in the webshop.

BRAND



Description	Bottom shape/ Well volume µl	PK	Cat. No.
96-well, transparent	U / 330	50	4.000 256
96-well, transparent	V / 360	50	4.000 257
96-well, transparent	F / 350	50	6.233 912
96-well, transparent	C / 350	50	4.000 258
96-well, white	F / 350	50	4.000 259
96-well, black	F / 350	50	4.000 260
96-well, white, transparent bottom	F / 330	50	4.000 261
96-well, black, transparent bottom	F / 330	50	4.000 262

3 Strip plates 12xF8 BRANDplates®

BRANDplates® microplates have ideal optical characteristics and are manufactured according to ANSI and SBS standards. They are available as 96-well standard plates as well as strip plates with immunoGrade™ and pureGrade™ surfaces - for greater flexibility and optimal results.

BRAND



immunoGrade™ high binding capacity (highbinding), ideal for IgG and molecules with hydrophobic and hydrophilic regions

pureGrade™ medium binding capacity (medium-binding), somewhat more hydrophobic than immunoGrade™

These offer high flexibility. Use only as many wells as necessary. Two variants are available:

Strip plates without grid: for processing 12 strips of 8 wells each. Individual strip can be removed from the frame and reinserted. The strips are not divisible.

Strip plates with grid: likewise for 12 strips of 8 wells each. Individual strips are removable from the plate and can be reinserted. The strips can be divided into 8 individual vessels and can be inserted individually into the frame plate.

Type	Description	Capacity µl	PK	Cat. No.
pureGrade™	without grid, not splittable	360	100	4.007 910
pureGrade™	with grid, splittable	350	100	4.007 911
immunoGrade™	without grid, not splittable	360	100	4.007 912
immunoGrade™	with grid, splittable	350	100	4.007 913

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1 Lids for BRANDplates® microplates

To protect samples, reaction batches or cell cultures from both contamination and evaporation, compatible lids are available for all BRANDplates® microplates. The lids are made of crystal-clear polystyrene. They are optimally matched to the corresponding BRANDplates® microplates, so that plates with lids can also be stacked. The cut-corner sets the orientation of the lid. For 96-well standard plates, lids with condensation rings are also available.

BRAND

Further covers on request.

Description	Height mm	PK	Cat. No.
for 96-well standard plates with condensation rings	8.0	100	4.000 363
for 96-well standard plates	8.0	100	4.000 364
for 96-well plates with transp. bottom and for 384-well plates	4.5	50	4.000 365



2 C96 MicroWell™ Plates, PS

- C-shaped bottom for optimal washing and liquid retrieval
- FluoroNunc™ for fluorescence based immuno assays with minimal auto-fluorescence
- MaxiSorp™ and PolySorp™ for quantitative and qualitative solid phase immuno assays
- Working volume range: 50 - 250 µl/ well

Thermo Scientific

Description	Colour	Surface	Sterile	PK	Cat. No.
without lid	White	MaxiSorp™*	no	60	6.079 678
without lid	Clear	MaxiSorp™*	no	60	9.390 553
without lid	Clear	MaxiSorp™*	no	60	9.390 554
without lid	Clear	PolySorp™*	no	60	9.390 557

* certified.



3 F96 Immuno™ Plates, PS

Clear, white or black plates with excellent optical clarity and flat bottom wells. MaxiSorp™, MediSorp™, MultiSorp™ and PolySorp™ are optimal for solid phase immuno assays.

Thermo Scientific

Material plates: Polystyrene

Total volume µl/well: 400

Description	Colour	Surface	Sterile	PK	Cat. No.
without lid	Clear	Non-treated	no	180	6.222 441
without lid	White	Non-treated	no	180	6.201 514
without lid	Black	Non-treated	no	180	6.228 233
without lid	Clear	MediSorp™*	no	60	4.008 649
without lid	Clear	MultiSorp™*	no	60	4.008 650
without lid	Clear	MaxiSorp™ *	no	60	9.390 550
without lid	Clear	MaxiSorp™	no	60	9.390 551
without lid	Clear	PolySorp™	no	60	9.390 555
without lid, with barcode	Clear	Non-treated	no	180	4.008 780
without lid	Clear	PolySorp™	no	180	4.008 802
without lid, with barcode	Clear	MaxiSorp™ *	no	180	4.009 010
without lid	Clear	MaxiSorp™ *	no	180	6.301 671
with lid	Clear	Non-treated	no	160	7.603 959
without lid	Clear	Non-treated	no	60	9.390 514

* certified.



4 V96 MicroWell™ Plates, PS

Clear plates with V-shaped well bottom for maximized sample recovery. The wells have raised rims and lids are supplied with rings, which prevent cross contamination.

Thermo Scientific

Applications include: antibiotic screens, serological tests, storing and screening compounds and DNA libraries.

Material plates: Polystyrene

Total volume µl/well: 300

Description	Colour	Surface	Sterile	PK	Cat. No.
with cap	Clear	Non-treated	yes	50	4.008 606
without cap	Clear	Non-treated	yes	50	9.390 513
without cap	Clear	Non-treated	no	180	9.390 512

13. Life Sciences Proteomics/ELISA

1 U96 MicroWell™/Immuno™ Plates, PS

Clear plates with excellent optical quality and round well bottom. Nunclon™Δ surface optimized for cell based assays and sterile non-treated versions for bacteriological applications. MaxiSorp™ und PolySorp™ suitable for solid phase immuno assays.
Material plates: Polystyrene
Total volume µl/well: 300

Thermo Scientific



Description	Colour	Surface	Sterile	PK	Cat. No.
with lid	Clear	Nunclon™Δ*	yes	50	9.407 471
without lid	Clear	Non-treated	yes	50	9.390 511
with lid	Clear	Non-treated	yes	160	4.009 009
without lid	Clear	Non-treated	nein	180	9.390 510
without lid	Clear	MaxiSorp™	nein	60	9.390 552
without lid	Clear	PolySorp™	nein	60	9.390 556
with lid	Clear	Cell culture*	yes	160	4.008 768

* certified.

2 Microtitration plates and sealing films

Compatible with most microtitration plate centrifuges.

BRAND

- For volumes up to 330 µl
- U-bottom wells
- Autoclavable at 121 °C (2 bar), according to DIN EN 285.
- High chemical resistance (e.g. phenol, chloroform, DMSO).
- Recessed hollows between the wells minimize contamination.
- Raised rings (rims) around the orifice of each well for easy sealing using self-adhesive sealing films.
- Plates can be sealed with self-adhesive, alphanumerically coded, DMSO-resistant, sealing film (cross-cut).



Type	PK	Cat. No.
Microtitration plate, PP, U-Bottom, 330 µl	100	9.408 970
DMSO-resistant sealing film, PP	100	9.408 983
Sealing film, self-adhesive, PE	100	4.000 237
Sealing film, self-adhesive, PP	100	9.409 386

3 Lids for 96-well and 384-well Plates

Lids in various versions made of clear, strong polystyrene with notches for quick orientation. Reduce water loss due to lower evaporation. 96-well lids feature individual condensation rings.

Thermo Scientific



Height mm	With	Sterile	PK	Cat. No.
7.90	Evaporation barrier	no	100	9.407 480
7.90	Evaporation barrier	yes	50	9.407 481
7.90	Evaporation barrier	yes	60	6.802 229
8.34	-	yes	60	4.008 599
8.34	-	no	60	6.206 034

Evaporation barrier is a rim around the inside edge of the lid.

4 Sealing Tapes for MultiWell Plates

Effectively seals all microplate formats for storage, PCR, microscopy, culture and protection. Pre-cut, plate-sized sheets.

Thermo Scientific

- Type 1) General use, PCR, storage, photo-sensitive samples
- Type 2) Cell Culture, sterile applications
- Type 3) Microscopy, good optics, low auto-fluorescence, DMSO compatible
- Type 4) Breathable, cell culture



Type	Colour	Glue	Sterile	Material	PK	Cat. No.
1)	Silver	Silicone	no	Aluminium	100	6.250 417
2)	Clear	Acrylic	yes	Polyester	800	9.407 482
3)	Clear	Acrylate	no	Polyolefin	100	6.223 248
4)	White	Acrylate	yes	Rayon	50	4.008 574

13. Life Sciences Proteomics/Microplates Readers and Washers

GENERAL CATALOGUE EDITION 20

NEW

1 Microplate Reader EZ Read 400

Biochrom Ltd.

The EZ Read range provides a comprehensive range of robust, fast and accurate microplate readers for absorbance assays. They come in several application focused models.

Applications:

- Measures flat, round and v-bottomed 96-well microplates with standard SBS footprints
- Accurate measurements ensured by automatic lamp calibration prior to each reading
- USB 2.0 PC connection
- Create new plate layouts
- Add multiple assays to a plate
- Add multiple plates per analysis
- Easy to create new methods
- Select only the data you want for data reporting
- Windows 7 and 8 compatibility as well as older Windows OS from XP
- So easy you will not need to export your data into Excel

EZ Read 400 ELISA: ELISA assays

EZ Read 400 Research: ELISA, total protein and cell proliferation assays

The EZ Read 400 microplate readers are PC-controlled using intuitive Galapagos software to simplify data acquisition and analysis.

Further EZ Read models on request.

Specifications

Detection System:	Single channel silicon photodiode filters
Optical System/Wavelength Selection:	
Wavelength Range:	400 to 750 nm
Measuring Range:	0 to 3.3 OD
Accuracy:	0.5 % from 1.0 OD at 450 nm
Reproducibility/Precision:	0.25 % from 1.0 OD at 450 nm
Linearity:	0.25 % from 0.1 to 2.5 OD at 492 nm
Reading Speed:	25 seconds
Dimensions (W x D x H):	315 x 182 x 435 mm
Power supply:	100-240 V, 50/60 Hz, 1.5 A



Type	UV filters nm	Measuring mode	PK	Cat. No.
EZ Read 400 Elisa	405, 450, 492, 620	NPP, OPD, Slow TMB, Turbo TMB, Ultra TMB	1	4.658 171
EZ Read 400 Research	405, 450, 492, 562, 570, 595, 620, 650	NPP, OPD, Slow TMB, Turbo TMB, Ultra TMB, Bradford, BCA, Lowry, MTT, XTT, Cell density	1	4.658 176

2 Microplate Washer 50 TS

BioTek Instruments

The 50 TS Microplate Strip Washer is a truly flexible platform that provides washing capabilities unsurpassed in its class. As a welcome upgrade from manual processing, the 50 TS is ideally suited for academic, clinical and veterinary diagnostic laboratories.

- Compact and robust microplate strip washer with 8- or 12-tube washing manifold
- Compatible with 96 well plates or single strips
- Integrated syringe pump for precise control over all fluid flow rates
- Automatic buffer switching for up to 3 wash buffers
- Total programming control for all wash parameters, like number of cycles, dispense volume, dispense rate, aspiration rate, etc. via touchscreen user interface
- Programmable shaking duration and intensity
- Many built-in maintenance programs

Typical Applications: ELISA and ELISPOT assays, Cell-based assays



Type	Description	PK	Cat. No.
50TS8	with 8-tube washing manifold	1	6.287 399
50TS12	with 12-tube washing manifold	1	6.287 400
50TS8V	with 8-tube washing manifold, buffer switching option	1	6.287 401
50TS12V	with 12-tube washing manifold, buffer switching option	1	6.287 402

➔ Further micro plates reader please see chapter 10.

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E & OE.

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1 Gel electrophoresis tank omniPAGE Mini

The preferred unit for routine mini protein electrophoresis, the omniPAGE mini is constructed using the latest injection moulding manufacturing techniques. This gives a high quality, low cost product with unsurpassed finish, durability and strength.

Cleaver Scientific

The unit incorporates a sealing system which is compatible with all major types of 8 x 10 cm and 10 x 10 cm precast gel.

Gel casting and running utilise the same insert, no transfer of glass plates during gel casting is necessary.

The insert contains the option of sliding clamps or just one screw per clamping bar side allowing very rapid set up of both hand cast and precast gels.

Ultra soft silicone seals and pressure bars which surround the glass plates guarantee leak proof gel casting. 2 mm thick glass plates prevent breakage and have bonded spacers for convenience. Accessory electro blotting and tube gel modules are available which use the same outer tank and lid.



Supplied with:

CVS10D: omniPAGE Mini, 10 x 10 cm Dual, 2 sets of Glass Plates, electrodes, 1 mm thick bonded Spacers, 2 x 12 sample, 1mm thick combs. CLAMP VERSION.
CVS10DSYS: as CVS10D additionally with caster.
CVS10CBS: as CVS10D additionally with caster and blotting insert.

Specifications

Gel dimensions (W x L): 7.5 x 8 cm
Unit dimensions (W x D x H): 19 x 13 x 15 cm
Max. sample capacity: 80 samples, 20 samples per gel
Buffer volume: min. 250 ml; max 1200 ml

Type	Description	Sample volume µl	PK	Cat. No.
CVS10D	omniPage Mini		1	9.584 652
CVS10CBS	Complete system for Mini Vertical 10 x 10 cm		1	6.229 038
CVS10DSYS	omniPage Mini incl. caster		1	9.584 654
VS10NG	Notched Glass Plates 2 mm		2	6.229 282
VS10PGS0.75	Plain Glass Plates with 0.75 mm Bonded Spacers		2	9.584 730
VS10PGS1	Plain Glass Plates with 1 mm Bonded Spacers		2	6.230 607
VS10PGS1.5	Plain Glass Plates with 1.5 mm Bonded Spacers		2	9.584 731
VS10-12-0.75	Comb 12 sample, 0.75 mm	25	1	9.584 732
VS10-16MC-0.75*	Comb 16 sample MC, 0.75 mm	20	1	9.584 733
VS10-8MC-1*	Comb 8 sample MC, 1 mm	60	1	6.232 797
VS10-10-1	Comb 10 sample, 1 mm	40	1	6.232 290
VS10-12-1	Comb 12 sample, 1 mm	35	1	6.232 176
VS10-16MC-1*	Comb 16 sample MC, 1 mm	25	1	6.229 039
VS10-20-1	Comb 20 sample, 1 mm	20	1	6.232 291
VS10-12-1.5	Comb 12 sample, 1.5 mm	50	1	9.584 734
VS10-16MC-1.5*	Comb 16 sample MC, 1.5 mm	40	1	9.584 735

* Multichannel compatible.

2 Gel electrophoresis package omniPAGE TETRAD Mini-Set

The gel electrophoresis tank OmniPAGE Mini is suitable for parallel treatment of up to 4 gels with 20 samples each. The tank is easy to handle, especially leak proof and guarantees an efficient cooling. For self-cast gels and all major types of 8 x 10 cm and 10 x 10 cm precast gels.

Supplied with:

- omniPAGE Mini, 10 x 10 cm Dual
- 1x CVS10DIRM Sliding Clamp PAGE insert
- 1x CVS10EXCASTER External Casting Upstand
- 1x VS10TANK Tank
- 1x VS10LID Lid
- 1x VS10DP Dummy plate
- 1x CSL-CAB set of electrophoresis cables, one black, one red
- 2x VS10PGS1 Plain glass plates with 1 mm bonded spacer (pack of 2)
- 2x VS10NG Notched glass plates (pack of 2)
- 2x VS10NGS1 Notched glass plates with 1mm bonded spacer (pack of 2)
- 4x VS10-12-1 = 4x 12 sample combs, 1 mm thick
- 1x VS10DCAST Casting base with casting mat



Type	PK	Cat. No.
omniPAGE TETRAD Mini-Set	1	7.930 246

13. Life Sciences Proteomics/Blotting

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1



9.584 753

Semi Dry Blotters

These Semi Dry Blotters offer rapid transfer times for DNA, RNA and protein blotting; typically 15 to 30 minutes. All units can be used for all types of blotting: western, southern and northern via uncomplicated buffer and set up procedures and are compatible with gel thicknesses from 0.25 up to 10mm without the need for additional equipment. Each unit is compatible with their respective omnipAGE vertical gel system. Semi Dry Blotting has the added benefit of economic transfers due to very low buffer volumes - typically only a few millilitres of buffer are required per transfer. These Semi-Dry Blotters utilise a screw down lid, which secures the blot sandwich and allows complete control of pressure ensuring even transfer. The electrodes, comprising platinum coated anode and stainless steel cathode, will exhibit practically no corrosion and so provide many years of trouble free use. Uniform heat dispersion across the blot sandwich ensures stable transfer times and no heat induced sample loss or transfer distortions. Being translucent, it allows viewing of the blot sandwich to ensure correct positioning and transfer is occurring correctly. Electrode plates are fully separated to prevent arching or damage.

Cleaver Scientific

Type	Description	Dimensions (W x D x H)	Capacity Buffer	Qty. Blots	Dimensions blots	PK	Cat. No.
		mm	ml		cm		
SD10	Mini, 10 x 10 cm	160 x 160 x 70	5	1	8 x 8,5	1	9.584 753
SD20	Maxi, 20 x 20 cm	260 x 260 x 70	20	1	16 x 17,5	1	6.229 381
				2	16 x 8,5		
				4	8 x 8,5		

2



Blotting paper

NEW

Recommended for blotting techniques with gels, like Southern, Northern and Western Blots, even Semidry-Blots of proteins

Hahnemühle

- Made from ultrapure cotton linters and cellulose, entirely without additives to ensure that no contamination will occur during the transfer steps
- Tested specifically for chromatographic and blotting techniques to ensure high and uniform capillary actions
- High wet strength for safe handling

Further sizes on request.

Description	Width mm	Length mm	Thickness mm	Weight g / m ²	PK	Cat. No.
medium absorbency	570	460	0.35	192	100	4.006 154
medium absorbency	600	580	0.35	192	100	4.006 155
medium absorbency	600	580	0.90	320	50	4.006 156
high absorbency	600	580	1.50	570	25	4.006 157

3



Gel blotting paper

NEW

GB 003, GB 005. High purity. Very absorbent. Easy to use. Suitable for all protein and nucleic acid blotting techniques.

GE Healthcare

Type	Width mm	Length mm	Wall thickness mm	PK	Cat. No.
GB 003	200	200	0.8	100	9.057 077
GB 003	600	300	0.8	25	9.057 067
GB 003	600	580	0.8	50	9.057 078
GB 005	200	200	1.2	25	9.057 079
GB 005	580	580	1.2	25	9.057 075



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13. Life Sciences Proteomics/Blotting

1 LLG-Transfer membrane, PVDF

Hydrophobic Polyvinylidene Fluoride (PVDF) transfer membrane with high binding capacity and low background. Ideal for use in protein binding applications such as Western blots, solid phase assays and immunoblotting procedures. BSA binding capacity up to 125 µg/cm²

Width mm	Length mm	Pore size µm	PK	Cat. No.
300	3000	0.45	1	6.268 166
300	3000	0.22	1	6.268 167
200	200	0.45	25	6.268 168
200	200	0.45	5	6.268 169
200	200	0.22	5	6.268 170



2 LLG-Transfer membrane, supported nitrocellulose

Supported Nitrocellulose transfer membranes combine the binding characteristics of nitrocellulose membranes with the strength of nylon membranes. These membranes are used for DNA/RNA transfers requiring low background or for multiple hybridizations. For use with chemiluminescence and radiographic detection systems. BSA binding capacity up to 100 µg/cm².

Width mm	Length mm	Pore size µm	PK	Cat. No.
300	3000	0.45	1	6.268 171
300	3000	0.22	1	6.268 172
200	200	0.45	25	6.268 173
200	200	0.45	5	6.268 174
200	200	0.22	5	6.268 175



3 LLG-Transfer membrane, nitrocellulose

Pure Nitrocellulose transfer membrane for all protein or immunoblotting applications. The high sensitivity and low background ensures excellent results in all transfers. Compatible with all detection systems. BSA binding capacity up to 100 µg/cm².

Width mm	Length mm	Pore size µm	PK	Cat. No.
200	200	0.22	5	6.268 165
200	200	0.22	25	6.268 163
200	200	0.45	5	6.268 164
200	200	0.45	25	6.268 162
300	3000	0.22	1	6.264 061
300	3000	0.45	1	6.268 161



4 Membrane Tweezers

Swiss made. Made of austenitic steel. Non-magnetizable. Good corrosion resistance to most chemicals, salts and acids. Flat, with round tips and rounded edges. Especially suitable for safe handling of transfer membranes.

Ideal-tek

Form	Length mm	PK	Cat. No.
thin, squared, bent tips	105	1	6.272 053
flat, round tips	115	1	9.160 131
smooth and flat tips	120	1	6.269 622



5 Storage boxes, PE-HD with tightly closing PE-LD lid

PE-HD. With tightly closing PE-LD lid. Suitable for cold storage rooms and refrigerators. Temperature range/withstands temperatures (without mechanical stress) from -20 to +95 °C. Stackable. Acid and chemical resistant. Food safe. Colour: natural.

Capacity L	Width mm	Depth mm	Height mm	PK	Cat. No.
0.50	103	103	64	1	9.033 270
1.00	103	103	127	1	9.033 275
1.00	103	208	64	1	9.033 280
1.50	103	208	94	1	9.033 285
2.00	103	255	94	1	9.033 286
2.00	208	208	64	1	9.033 287
3.20	208	208	94	1	9.033 288

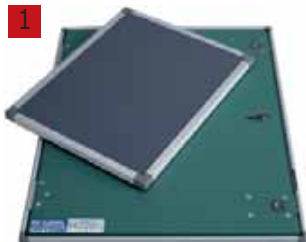


13. Life Sciences

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Proteomics/Blotting-Blot Imaging

1



1 X-Ray cassettes

- Standard design with lead lining and snap fit lid.
- easy to open, easy to close with gentle pressure.
 - firm, consistent support for films through special shaping: base pre-formed with convex profile.
 - flexible, pure aluminium base (Absorption 1.2mm Al-value) film processed in frames
 - Aluminium base coated in impact-resistant paint
 - Anodised aluminium frame
 - Elastic foam for film protection
 - Specifically designed for autoradiography at 70 °C

Use our reinforcement films in the blue sensitivity range with these X-Ray cassettes.

Format mm	PK	Cat. No.
180 x 240	1	9.106 580
240 x 300	1	9.106 581
200 x 400	1	9.106 582
356 x 432	1	9.106 583

Reinforcement films for X-Ray cassettes

Reinforcement films Universal B 1
CaWo₄, blue.

Format mm	PK	Cat. No.
180 x 240	2	9.106 570
240 x 300	2	9.106 571
200 x 400	2	9.106 572
356 x 432	2	9.106 574

2



2 Chemiluminescence Imager CELVIN®

NEW

The innovative, small and compact Celvin® S Chemiluminescence Imager enables a high photon yield due to small distance of the sample to the detecting CCD chip which leads to short exposure times.

biostep GmbH

- Resolution and sensitivity can individually be adjusted
- Electromagnetic locking mechanism ensures safety during measurements
- Sensitive cooled 16 Bit CCD proprietary camera
- One-hand operation by touch-screen with status information
- Small, compact and space-saving system
- Storage of the acquisition settings in individual, application-dependent methods
- Acquisition of image series for signal reinforcements
- Comfortable and automatic handling via user-friendly software for Western Blots and 1D Gels

biostep Celvin® S 160+: Resolution 1.6 Mpixel: 1536(H) x 1024(V), Integration time: from 0.5 sec up to 24 hrs, Maximum field of view 12 x 8 cm.

biostep Celvin® S 320+: Ultra-sensitive system, Resolution 3.2 Mpixel: 2184(H) x 1472(V), Integration time: from 0.5 sec up to 24 hrs, Maximum field of view 13 x 9 cm.

biostep Celvin® S 420: Sensitive system, Resolution 4.2 Mpixel: 2048(H) x 2048(V), Integration time: from 0.03 sec up to 24 hrs, Maximum field of view 14 x 14 cm.

biostep Celvin® S 420 FL: Fluorescence system, Sensitive system, Resolution 4.2 Mpixel, excitation with LEDs red, green, blue and 365 nm, 4 emission filters 490, 550, 600 and 680 nm, Maximum field of view 14 x 14 cm.

biostep Celvin® S 830: Sensitive system, Resolution 8.3 Mpixel: 3366(H) x 2544(V), Integration time: from 0.5 sec up to 24 hrs, Maximum field of view 14 x 12 cm.

Features:

- Sensitive fixed focal lens for chemiluminescence
- Air-cooled double peltier technique, T -40 °C
- Compact dark hood
- Dimmable white top-light (intensity 10 - 100 %) for colorimetrically-stained markers
- Binning 1x1, 2x2, 3x3, 4x4, 5x5, 6x6
- Weight: 10 kg
- Dimensions (W x D x H): 24 x 36 x 42 cm
- Minimum requirements for PC: Processor Intel i3, 3 GHz, 2 GB RAM, Win 7/8, 2 free USB 2.0 ports

Type	PK	Cat. No.
CELVIN® S 160+	1	6.268 396
CELVIN® S 320+	1	6.268 397
CELVIN® S 420	1	6.268 395
CELVIN® S 420 FL	1	6.287 656
CELVIN® S 830	1	6.268 394

13. Life Sciences Proteomics/Purification

1 Centrifugal concentrators, Vivaspin 500

Membrane: polyethersulphone. Vivaspin 500 µl unit with 2.2 ml sample carrier tube can be used in a fixed angle rotor. The vertical, built-in membrane guarantees minimal membrane fouling and provides rapid sample concentration. Low protein adsorption gives minimal sample loss.

Sartorius

Membrane surface: 0.5 cm²
Max. rcf.: 15000 x g
Hold-up volume: < 5 µl

MWCO	PK	Cat. No.
da		
3000	25	9.049 863
5000	25	9.049 755
10000	25	9.049 756
30000	25	9.049 757
50000	25	9.049 758
100000	25	9.049 759
Starter kit (5 ea. 5 K to 100 K)	25	9.049 750
3000	100	9.049 864
5000	100	9.049 850
10000	100	9.049 851
30000	100	9.049 852
50000	100	9.049 853
100000	100	9.049 854



2 Centrifugal concentrators, Vivaspin 2

Membrane: polyethersulphone. This 2 ml volume unit combines the rapidity of the classic Vivaspin products with reduced internal surface and membrane areas for superior recoveries from very dilute solutions. With a choice of suitable membranes (PES, CTA, Hydrosart) Vivaspin 2 provides the highest flexibility for process optimisation. Vivaspin 2 guarantees maximum sample recovery either by reverse centrifuging into the concentrate recovery cap or by directly pipetting the concentrate from the deadstop pocket built into the bottom of the concentrator.

Sartorius

Membrane surface: 1.2 cm²
Max. rcf.: 8000 x g
Hold-up volume: < 10 µl

MWCO	PK	Cat. No.
da		
3000	25	9.049 861
5000	25	9.049 760
10000	25	9.049 761
30000	25	9.049 762
50000	25	9.049 763
100000	25	9.049 764
3000	100	9.049 862
5000	100	9.049 777
10000	100	9.049 778
30000	100	9.049 779
50000	100	9.049 780
100000	100	9.049 781



3 Centrifugal filtration units, Centriscart I

Centriscart I is a ready to use unit for small volume centrifugal ultrafiltration to separate proteins from low molecular weight substances in biological samples.

Sartorius

Typical applications include:

- Drug binding studies
- Determination of metabolites in serum
- Protein removal from blood samples
- Cleaning of liposomes (virus removal)

Type	PK	Cat. No.
Centriscart 5,000 MWCO CTA	12	9.054 671
Centriscart 10,000 MWCO CTA	12	9.054 672
Centriscart 20,000 MWCO CTA	12	9.054 673
Centriscart 100,000 MWCO PES	12	9.054 674
Starter pack (3 units each of 5 K, 10 K, 20 K, 100 K)	12	9.054 675

CTA = Cellulose tri-acetate
PES = Polyethersulphone



13. Life Sciences Proteomics/Purification

GENERAL CATALOGUE EDITION 20



1 Vivaspin 6

Membrane: polyethersulphone. Vivaspin 6ml concentrators have been developed to offer increased volume flexibility and performance. Vivaspin 6 can process an impressive 6 ml in either swing-out buckets or fixed angle rotors accepting standard 15ml conical bottom test tubes. The Vivaspin 6 features twin vertical membranes for unparallelled filtration speeds and 100x plus concentrations. Sartorius

Membrane area: 2.5 cm²
Max. centrifugal force: 10000 x g
Dead volume: < 10 µl

MWCO	PK	Cat. No.
da		
5000	25	9.049 765
10000	25	9.049 766
30000	25	9.049 767
50000	25	9.049 768
100000	25	9.049 769
0.2 µm	25	9.049 770
5000	100	9.049 782
10000	100	9.049 783
30000	100	9.049 784
50000	100	9.049 785
100000	100	9.049 786
0.2 µm	100	9.049 787
Starter kit (5 ea. 5 K to 100 K)	25	9.049 753



2 Centrifugal concentrators, Vivaspin 20

Membrane: polyethersulphone. Vivaspin 20 ml centrifugal concentrators have been developed to offer increased volume flexibility and performance. Vivaspin 20 handles up to 20 ml in swing bucket centrifuges and 14 ml in 25° fixed angle rotors accepting 50 ml centrifuge tubes. Featuring twin vertical membranes for unparallelled filtration speeds the Vivaspin 20 can achieve 100x plus concentrations. Remaining volume is easy to read off the printed scale on the side of the concentrator and the modified dead stop pocket further simplifies direct pipette recovery of the final concentrate. Sartorius

Membrane area: 6.0 cm²
Max. centrifugal force: 8000 x g
Dead volume: < 20 µl

MWCO	PK	Cat. No.
da		
3000	12	9.049 855
5000	12	9.049 771
10000	12	9.049 772
30000	12	9.049 773
50000	12	9.049 774
100000	12	9.049 775
300000	12	9.049 857
1000000	12	9.049 858
0.2 µm	12	9.049 776
3000	48	9.049 856
5000	48	9.049 788
10000	48	9.049 789
30000	48	9.049 790
50000	48	9.049 791
100000	48	9.049 792
300000	48	9.049 859
1000000	48	9.049 860
0.2 µm	48	9.049 793
Starter kit (2 ea. 5 K to 0.2 µm)	12	9.049 754



We can supply this
manufacturer's
whole
product range !



sartorius

13. Life Sciences Proteomics/Purification

1 2 Crossflow filter units Vivaflow 50 and Vivaflow 200

Thin channel, crossflow filter units with 50 cm² / 200 cm² filter areas for capacities between 100 ml / 500 ml and 5 L. This system provides high crossflow rates at minimum pumping pressure and does not require additional fittings for scale-up.

Sartorius

VivaFlow 50 is easy to operate with a flow restrictor and, optionally, a pressure indicator. Modular construction with luer connections allows interlocking of units in series for easy scale-up. Recovery rates are maximised due to optimised recirculation volume and by use of low adsorption materials. Disposable. For greater volumes, VivaFlow 200 is available with a filter area of 200 cm² and includes pressure indicator, flow restrictor, filtrate tubing and connectors. Membrane: polyethersulphone

Description	MWCO	PK	Cat. No.
	da		
Vivaflow 50	3.000	2	6.240 542
Vivaflow 50	5.000	2	9.049 742
Vivaflow 50	10.000	2	9.049 743
Vivaflow 50	30.000	2	9.049 744
Vivaflow 50	50.000	2	9.049 745
Vivaflow 50	100.000	2	9.049 746
Vivaflow 50	0.2 µm	2	9.049 747
Vivaflow 200	5.000	1	9.049 794
Vivaflow 200	10.000	1	9.049 795
Vivaflow 200	30.000	1	9.049 796
Vivaflow 200	50.000	1	9.049 797
Vivaflow 200	100.000	1	9.049 798
Vivaflow 200	0.2 µm	1	9.049 799

Accessories available on request.

3 Peristaltic Pump VLP

NEW

Compared to the PLP peristaltic pump the speed band of the VLP peristaltic laboratory pump is broader. Moreover the VLP model offers additional programming like fixed pumping volume and time, a timer function and much more.

Dülabo Laborgeräte

Specifications

Speed:	1 to 600 rpm, reversible
Speed precision:	1 rpm
Speed control:	4.3" Farb Touchscreen
Communication interface:	RS 232/485 MODBUS
Power supply:	220 V, 60 Hz
Power consumption:	< 50 W
Operating condition:	0 ... 40 °C
Relative humidity:	< 80 %
Dimensions (L x W x H):	261 x 187 x 237 mm
IP rating:	IP 31

Type	Description	Flow rate ml/min.	PK	Cat. No.
VLP 61_103	Peristaltic Pump with pump head	0,00025 / 2280	1	6.287 162



➔ More peristaltic pumps please see chapter 8.