

Biometra Compact Family

Dedicated to Agarose Electrophoresis

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Submerged Horizontal Gel Electrophoresis of Nucleic Acids

The Biometra Compact line was developed based on the experience and needs of users in research and routine laboratories throughout the world.

The deliberate design provides for ease of use and long-term reliability for the precise separation and analysis of nucleic acids in agarose gels. All electrophoresis cells meet the highest standards in operational safety.

- Robust high-quality design
- Great versatility
- Fast and leak-proof casting of gels



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The Biometra Compact Line at a Glance



Electrophoresis of "Mini Gels"

Compact XS and **Compact S** are perfect for the fast separation of low to medium numbers of samples. The XS and S models differ in the size of the included gel tray. The versatile chamber compatibility of both gel trays can respond to changing applications. There is a range of nine different combs, including four multichannel pipette compatible combs to meet all demands. Rubber feet reliably prevent the chambers from slipping on the bench.

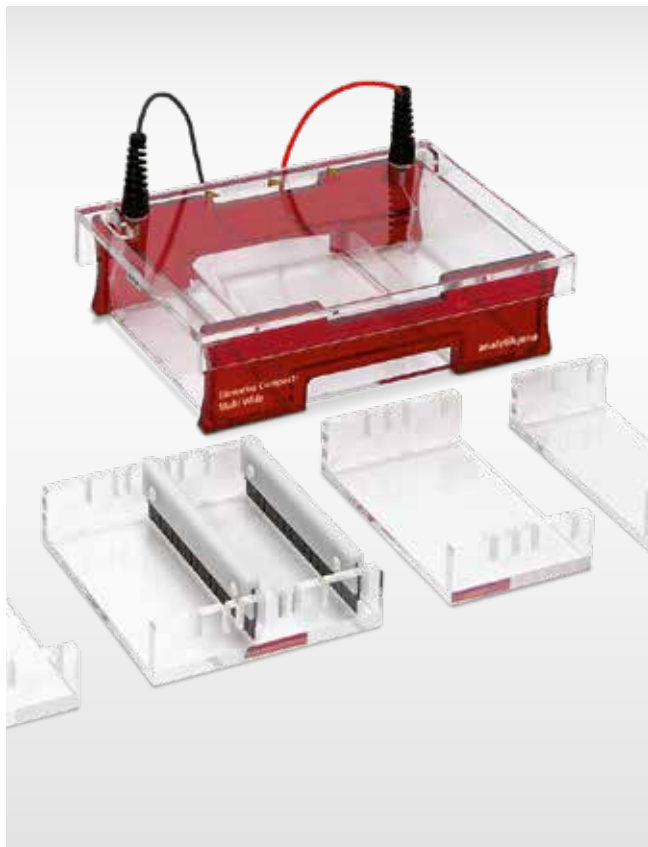
Model	Gel size (W + L)	Max. sample number
Compact XS	8.2 cm x 7.1 cm	with 2 combs: 32
Compact S	8.2 cm x 10.5 cm	with 3 combs: 48



Electrophoresis of "Midi Gels"

Compact M is useful for both the separation of medium sample numbers and for the separation of restricted fragments with longer running distances. Eleven different combs are available. Four of them are multichannel pipette compatible. Rubber feet reliably prevent the chamber from slipping on the bench.

Model	Gel size (W + L)	Max. sample number
Compact M	12.4 cm x 14.5 cm	with 4 combs: 100



Electrophoresis of various "Midi Gels"

Compact Multi-Wide is an economically designed version of the Compact family. It addresses users looking for medium-sized gels with varying numbers of samples. Four gel trays for different running distances are included and provide a high level of versatility.

Model	Gel size (W + L)	Max. sample number
Compact Multi-Wide	15.0 cm x 7.0 cm	with 2 combs: 64
	15.0 cm x 10.0 cm	with 3 combs: 96
	15.0 cm x 15.0 cm	with 5 combs: 160
	15.0 cm x 18.0 cm	With 6 combs: 192



Electrophoresis of "Maxi Gels"

The large-sized **Compact L** and **Compact XL** cells are designed for the high-throughput separation of fragments as well as PCR screening or RFLP. Compact L and Compact XL only differ in their tray and comb versions. Eleven different combs offer a wide variety of sample numbers and volumes. Especially when separating high numbers of samples, the four different multichannel pipette compatible combs help to save working time. Compact XL ideally meets the 96 well plate format. With four 26 well combs, the capacity of one microtiter plate plus eight markers can be separated in one run with distances of up to 6 cm. Using eight 52 well combs with distances of 3 cm, the capacity is increased to up to 416 samples or 4 microtiter plates in addition to 32 marker lanes. Compact L and Compact XL come with 4-point leveling feet and a gauge to align the large gels. This means that even uneven working benches can be used without issue, leaving no need for a levelling table.

Model	Gel size (W + L)	Max. sample number
Compact L	23.9 cm x 20.0 cm	with 6 combs: 312
Compact XL	23.9 cm x 25.0 cm	with 8 combs: 416

Various Details Provide for Ease of Use

Highest quality components guarantee precise and reliable sample separation. Unique casting systems ensure simple and leak-free gel casting.

Chamber

- A high-quality acrylic construction with strong thickness: 8 mm in models XS/S, M, L/XL, 4 and 8 mm in the Multi-Wide model
- Well-planned design with smoothly rounded edges
- Accurately aligned platinum electrodes
- Sheated 4 mm gold-coated safety plugs

Benefits

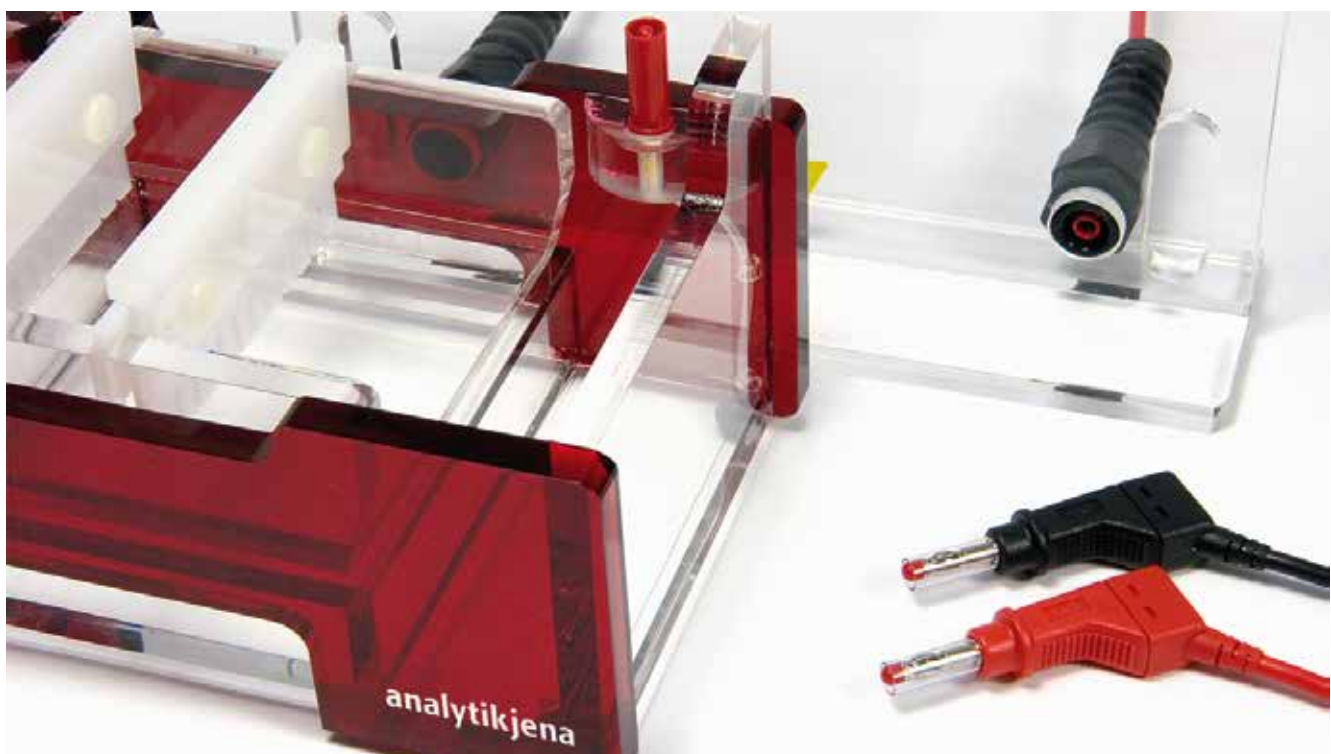
- Well suited for daily use without leakage or breakage
- Convenient and easy to handle, e.g. easy removal of the gel tray without touching the buffer
- Straight running fronts and sharply separated bands
- No risk of corrosion and fully safe for users

Safety Lid

- Upwards lid removal
- Special design for positioning of the detached lid (models XS/S, M, L/XL)
- All electrical cable ports are sheated and electrical contact is only achieved when the lid is fully closed

Benefits

- Free access to the chamber for pipetting
- No risk of sample and buffer spillage in comparison to a sliding lid
- Space-saving storage even of large chamber lids





Combs

- A variety of color coded 1.0 mm and 1.5 mm thick combs are available for each tray size
- Four multichannel pipette compatible combs are available for each tray size

Benefits

- All chambers are versatile in respect to sample volumes and throughput
- Sample loading from a 96 well plate with a multi-channel pipet saves time and minimizes the risk of sample mix-up
- The appropriate solution for each demand: combs with 9 mm spacing for easy sample loading or combs with 4.5 mm spacing for high sample number capacity by shifted pipetting

Gel Casting

- Unique plug&cast casting system for XS, S and M models: insert the tray and it's ready to go
- Models L and XL feature a gel caster with 3-point level and gauge
- The Multi-Wide model features an "all-in-one" gel casting system and parallel gel casting with optional casting gates

Benefits

- Leak-proof gel casting of XS, S and M in seconds
- Leak-proof and smooth gel casting for L and XL tray sizes in one caster
- Multi-Wide: Highly versatile leak-proof gel casting for up to three gel trays with movable casting dams

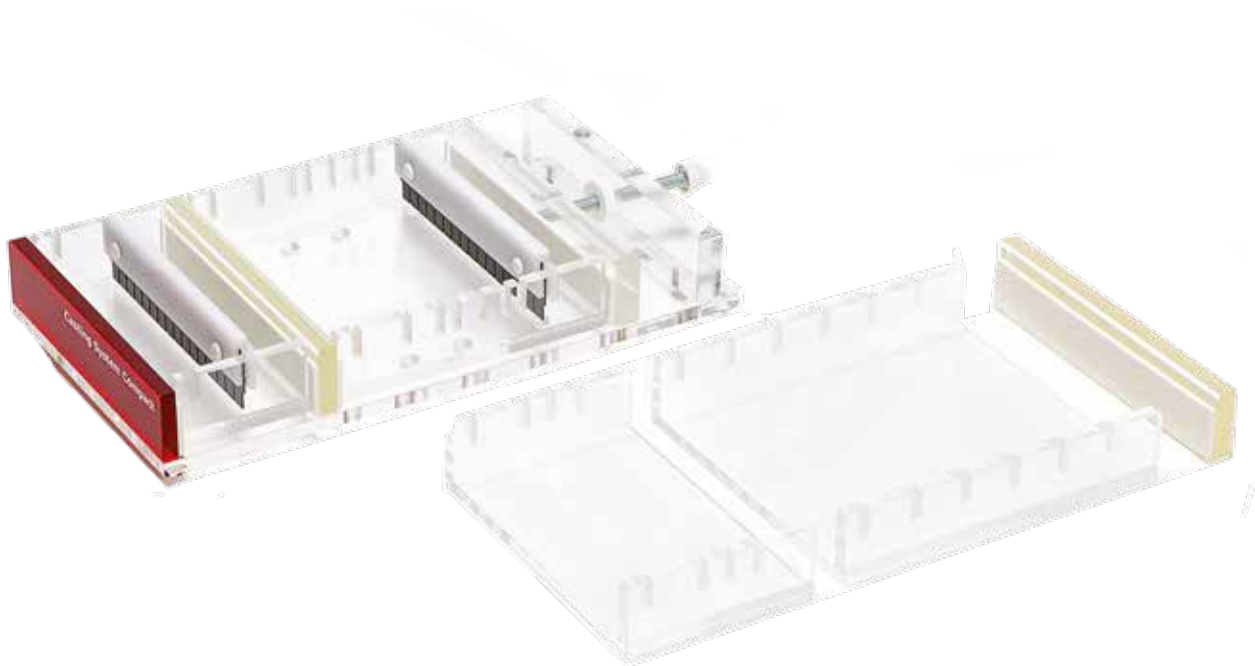
Gel Trays

- All trays are UV transparent
- All trays come with multiple comb positions
- Precisely cut comb positions

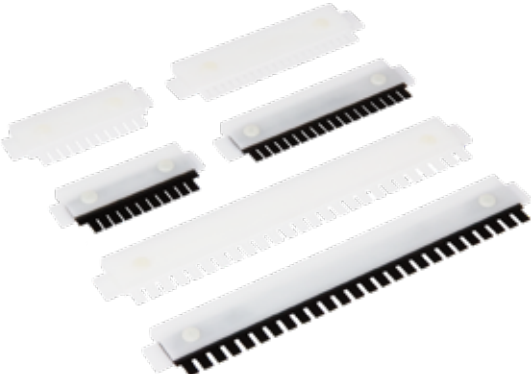
Benefits

- The tray holding the gel can be placed directly on the UV table for visualization
- High versatility for short to long running distances
- Combs can be inserted quickly and in a stable position





Casting System and optional casting dams for Compact Multi-Wide



Color coded combs



Casting System for Compact M



Casting System for Compact L/XL

Technical Data

Model	Gel size, W x L (cm)	Comb thickness (mm)	Number of wells	Sample vol./well (μl)*	Buffer vol. (ml)
Compact XS and Compact S					
Compact XS Compact S	8.2 x 7.1 8.2 x 10.5	1.0	8, MTP, 9 mm spacing	30	360
			11	20	
			13	16	
			16, MTP, 4.5 mm spacing	12	
		Prep., 1 + 2 markers	342 + 30		
		1.5	8, MTP, 9 mm spacing	45	
			11	30	
			13	24	
16, MTP, 4.5 mm spacing	18				
Compact M					
Compact M	12.4 x 14.5	1.0	11	36	580
			13, MTP, 9 mm spacing	30	
			18	20	
			21	16	
			25, MTP, 4.5 mm spacing	12	
		1.5	Prep., 1 + 2 markers	594 + 30	
			11	54	
			13, MTP, 9 mm spacing	45	
			18	30	
			21	24	
25, MTP, 4.5 mm spacing	18				
Compact Multi-Wide					
Compact Multi-Wide	15.0 x 7.0 15.0 x 10.0 15.0 x 15.0 15.0 x 18.0	1.0	prep., 2 + 2 marker lanes	261 + 16	1.100 - 1.300
			14	36	
			16, MTP, 9 mm spacing	30	
			22	20	
			26	16	
			32, MTP, 4.5 mm spacing	12	
		1.5	prep., 2 + 2 marker lanes	392 + 24	
			14	55	
			16, MTP, 9 mm spacing	46	
			22	30	
			26	24	
32, MTP, 4.5 mm spacing	18				

Model	Gel size, W x L (cm)	Comb thickness (mm)	Number of wells	Sample vol./well (μl)*	Buffer vol. (ml)
Compact L and Compact XL					
Compact L Compact XL	23.9 x 20.0 23.9 x 25.0	1.0	22	36	1.660
			26, MTP, 9 mm spacing	30	
			36	20	
			42	16	
			52, MTP, 4.5 mm spacing	12	
		Prep., 1 + 2 markers	1,284 + 30		
		1.5	22	54	
			26, MTP, 9 mm spacing	45	
			36	30	
			42	21	
52, MTP, 4.5 mm spacing	18				

* refer to 5 mm thick gels, MTP: multichannel pipette compatible

Order Information

Biometra Compact XS/S

Order number	Description
846-025-000	Compact XS Chamber with safety lid (W x L x H, cm = 13.6 x 21.6 x 10.6), UV transparent tray for gel size 8.2 cm x 7.1 cm, 2 combs (11 wells, 1.0 mm thick)
846-025-010	Gel casting system XS Casting chamber for gel tray 8.2 cm x 7.1 cm
846-025-099	Compact XS system Compact XS + gel casting system XS (see 846-025-000 + 846-025-010)
846-025-100	Compact S Chamber with safety lid (W x L x H, cm = 13.6 x 21.6 x 10.6), UV transparent tray for gel size 8.2 cm x 10.5 cm, 2 combs (11 wells, 1.0 mm thick)
846-025-110	Gel casting system S Casting chamber for gel tray 8.2 cm x 10.5 cm
846-025-199	Compact S system Compact S + gel casting system S (see 846-025-100 + 846-025-110)
	Combs, 1.0 mm thick
846-025-001	8 wells, 30 µl/well, multichannel pipette compatible, 9 mm spacing
846-025-002	11 wells, 20 µl/well
846-025-003	13 wells, 16 µl/well
846-025-004	16 wells, 12 µl/well, multichannel pipette compatible, 4.5 mm spacing
	Combs, 1.5 mm thick
846-025-015	Preparative comb: 1 well (342 µl) plus 2 marker wells (30 µl/well)
846-025-011	8 wells, 45 µl/well, multichannel pipette compatible, 9 mm spacing
846-025-012	11 wells, 30 µl/well
846-025-013	13 wells, 24 µl/well
846-025-014	16 wells, 18 µl/well, multichannel pipette compatible, 4.5 mm spacing
	Gel trays
846-025-020	Gel tray XS for 8.2 cm x 7.1 cm gel size, UV transparent, 2 comb positions with 3.0 cm distance
846-025-021	Gel tray S for 8.2 cm x 10.5 cm gel size, UV transparent, 2 comb positions with 4.7 cm distance, 3 comb positions with 3.1 cm distance
846-025-006	Four loading stripes, adhesive in red/green/yellow each, for gel tray XS and S

Biometra Compact M

Order number	Description
846-025-200	Compact M Chamber with safety lid (W x L x H, cm = 17.7 x 25.8 x 10.6), UV transparent tray for gel size 12.4 cm x 14.5 cm, 2 combs (18 wells, 1.0 mm thick)
846-025-210	Gel casting system M Casting chamber for gel tray 12.4 cm x 14.5 cm
846-025-299	Compact M system Compact M + gel casting system M (see 846-025-200 + 846-025-210)
	Combs, 1.0 mm thick
846-025-201	11 wells, 36 µl/well
846-025-202	13 wells, 30 µl/well, multichannel pipet compatible, 9 mm spacing
846-025-203	18 wells, 20 µl/well
846-025-204	21 wells, 16 µl/well
846-025-205	25 wells, 12 µl/well, multichannel pipette compatible, 4.5 mm spacing
	Combs, 1.5 mm thick
846-025-216	Preparative comb: 1 well (594 µl) plus 2 marker wells (30 µl/well)
846-025-211	11 wells, 54 µl/well
846-025-212	13 wells, 45 µl/well, multichannel pipette compatible, 9 mm spacing
846-025-213	18 wells, 30 µl/well
846-025-214	21 wells, 24 µl/well
846-025-215	25 wells, 18 µl/well, multichannel pipette compatible, 4.5 mm spacing
	Gel trays
846-025-221	Gel tray M for 12.4 cm x 14.5 cm gel size, UV transparent, 3 comb positions with 4.5 cm distance, 4 comb positions with 3.3 cm distance
846-025-206	Four loading stripes, adhesive in red/green/yellow each for gel tray M

Order Information

Biometra Compact Multi-Wide

Order number	Description
846-025-500	Compact Multi-Wide Chamber with safety lid (W x D x H, cm = 29.5 cm x 21.0 cm x 8.5 cm), without accessories!
846-025-509	Compact Multi-Wide Chamber with safety lid (W x D x H, cm = 29.5 cm x 21.0 cm x 8.5 cm), 4 UV transparent trays for gel size: 15 cm x 7.0 cm / 10.0 cm / 15.0 cm and 18.0 cm, 2 combs (16 wells, 1.0 mm thick)
846-025-510	Gel casting system Multi-Wide All-in-one gel caster for all Multi-Wide gel tray sizes: 15 cm x 7.0 cm / 10.0 cm / 15.0 cm and 18.0 cm
846-025-599	Compact Multi-Wide system Compact Multi-Wide + gel casting system Multi-Wide (see 846-025-509 + 846-025-510) Movable casting dam set (846-025-528) is not included in the delivery!
	Combs, 1.0 mm thick
846-025-538	Preparative comb: 2 wells (261 µl) plus 2 marker wells (16 µl/well)
846-025-531	14 wells, 36 µl/well
846-025-532	16 wells, 30 µl/well, multichannel pipette compatible, 9 mm spacing
846-025-533	22 wells, 20 µl/well
846-025-534	26 wells, 16 µl/well
846-025-535	32 wells, 12 µl/well, multichannel pipette compatible, 4.5 mm spacing
	Combs, 1.5 mm thick
846-025-548	Preparative comb: 2 wells (392 µl) plus 2 marker wells (24 µl/well)
846-025-541	14 wells, 55 µl/well
846-025-542	16 wells, 46 µl/well, multichannel pipette compatible, 9 mm spacing
846-025-543	22 wells, 30 µl/well
846-025-544	26 wells, 24 µl/well
846-025-545	32 wells, 18 µl/well, multichannel pipette compatible, 4.5 mm spacing
	Gel trays
846-025-521	Gel tray for 15.0 cm x 7.0 cm gel size, UV transparent, 2 comb positions with 2.9 cm distance
846-025-522	Gel tray for 15.0 cm x 10.0 cm gel size, UV transparent, 2 comb positions with 4.4 cm distance, 3 comb positions with 2.9 cm distance
846-025-523	Gel tray for 15.0 cm x 15.0 cm gel size, UV transparent, 2 comb positions with 6.9 cm distance, 3 comb positions with 4.6 cm distance, 5 comb positions with 2.7 cm distance
846-025-524	Gel tray for 15.0 cm x 18.0 cm gel size, UV transparent, 2 comb positions with 8.4 cm distance, 3 comb positions with 5.6 cm distance, 6 comb positions with 2.8 cm distance
846-025-506	Six loading stripes, adhesive, in red/green/yellow, each. For gel trays Compact Multi-Wide
846-025-528	Movable casting dam set, 2 casting dams to convert the all-in-one casting system for Multi-Wide into a multi-casting system for the shorter gel trays
846-025-550	Casting/Leveling Tray, 20 cm x 30 cm

Biometra Compact L/XL

Order number	Description
846-025-300	Compact L Chamber with leveling feet, gauge and safety lid (W x L x H, cm = 29.4 x 38.2 x 11.2), UV transparent tray for gel size 23.9 cm x 20.0 cm, 3 combs (36 wells, 1.0 mm thick)
846-025-310	Gel casting system L/XL Gel caster with leveling feet and gauge for gel tray 23.9 cm x 20.0 cm and gel tray 23.9 cm x 25.0 cm
846-025-399	Compact L system Compact L + gel casting system L/XL (see 846-025-300 + 846-025-310)
846-025-400	Compact XL Chamber with leveling feet, gauge and safety lid (W x L x H, cm = 29.4 x 38.2 x 11.2), UV transparent tray for gel size 23.9 cm x 25.0 cm, 4 combs (26 wells, 1.5 mm thick)
846-025-499	Compact XL system Compact XL + gel casting system L/XL (see 846-025-400 + 846-025-310)
	Combs, 1.0 mm thick
846-025-301	22 wells, 36 µl/well
846-025-302	26 wells, 30 µl/well, multichannel pipette compatible, 9 mm spacing
846-025-303	36 wells, 20 µl/well
846-025-304	42 wells, 16 µl/well
846-025-305	52 wells, 12 µl/well, multichannel pipette compatible, 4.5 mm spacing
	Combs, 1.5 mm thick
846-025-316	Preparative comb: 1 well (1284 µl) plus 2 marker wells (30 µl/well)
846-025-311	22 wells, 54 µl/well
846-025-312	26 wells, 45 µl/well, multichannel pipette compatible, 9 mm spacing
846-025-313	36 wells, 30 µl/well
846-025-314	42 wells, 24 µl/well
846-025-315	52 wells, 18 µl/well, multichannel pipette compatible, 4.5 mm spacing
	Gel trays
846-025-320	Gel tray L for 23.9 cm x 20.0 cm gel size, UV transparent, 6 comb positions with 3.1 cm distance
846-025-321	Gel tray XL for 23.9 cm x 25.0 cm gel size, UV transparent, 8 comb positions with 3.0 cm distance
846-025-306	Eight loading stripes, adhesive in red/green/yellow each. For gel tray L and XL

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Subjects to changes in design and scope of delivery as well as further technical development!