

Cleaver Scientific's multiSUB **horizontal gel electrophoresis** units have been designed by scientists with the laboratory environment in mind.

multiSUB Horizontal Electrophoresis tanks provide an easy to use and flexible platform for all your horizontal electrophoresis requirements. With a wide range of tank and tray sizes as well as many comb options, these systems can handle all manner of electrophoresis experiments.

High quality injection moulded construction and durable leakproof design for complete safety and long life.

Electrical safety – lid removal immediately disconnects power to the lower buffer chamber to allow entirely safe access to the gel.

Easy-click lid removal – asymmetric lid design and thumb locators on colour-coded cassette-style electrodes ensure that electrophoresis is always performed in the correct direction – i.e. negative to positive.

The widest range of combs available of any gel tank manufacturer - fit virtually every application from preparatory electrophoresis to high-throughput screening.

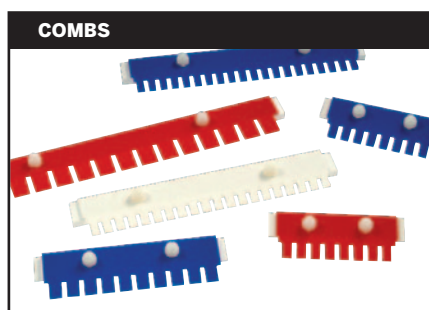
Available in **four thicknesses** and **colour-coded**. Range from:

- White – 1mm supplied as standard
- Black – 0.75mm for tightly resolved bands
- Red – 1.5mm to maximise sample volume
- Blue – 2mm to maximise sample volume

Black and white combs recommended for high resolution gels and publication quality data; red and blue to scale-up nucleic acid volumes for preparatory techniques.

Multiple gel tray options – eliminate the need for additional gel tanks and allow gels to be cast externally, keeping the tank permanently in use for electrophoresis if required.

UV and blue light transparent above 300nm.



'Plug-and-Go' casting – moulded casting dams clip easily onto the ends of the gel tray for rapid external casting, allowing the multiSUB™ unit to remain in use for gel running.

Flexicasters – allow agarose gels of different lengths to be cast in one unit. All models feature adjustable barriers with ultra-soft silicone gasket to ensure leak-proof casting.

Gel levelling table – recommended especially for MSMAXI or MSSCREEN gel trays. Adjustable levelling feet used in conjunction with a levelling bubble provide an even surface upon which to pour wide- and large format gels, to ensure consistent and uniform migration

Cassette-style electrodes – difficult to break, but inexpensive and easy to change – composed of 99.99% corrosion-resistant, pure platinum.

Power cables – with 4mm connectors compatible with most modern low-to-medium voltage power supplies; CE compliant. Adaptors available for complete power supply compatibility.

Buffer Saver Blocks – conserve buffer for added economy – especially beneficial in larger format MSMAXI and MSSCREEN units.



ELECTROPHORESIS

Horizontal gel systems

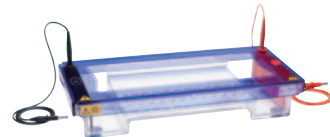
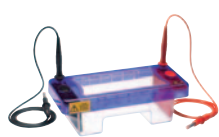
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- Wide range of tanks and accessories
- Durable **Injection moulded** construction for leak-proof environment
- Designed & manufactured in the **United Kingdom**

Horizontal Gel Systems

SELECTION GUIDE



	MSMINI	MSMIDI	MSCHOICE	MSCHOICEST
	For quick sample checks, following restriction digestion or PCR. MSMINI an economical choice for separation of up to 64 samples.	The same run lengths as the MSMINI but with up to 100 samples.	The perfect system for routine agarose electrophoresis. Up to 210 samples with multichannel compatible comb options for faster loading.	Increased sample capacity or migration length compared to the MSCHOICE to provide more versatility for the user
Unit Dimensions (w x l x h)	9 x 21 x 9cm	12.5 x 22 x 9cm	17.5 x 26.5 x 9cm	17.5 x 41 x 9cm
Active Gel Size (w x l) / Corresponding Gel Tray	7x7cm / MS7-UV7 7x10cm / MS7-UV10	10x7cm / MS10-UV7 10x10cm / MS10-UV10	15x7cm / MS15-UV7 15x10cm / MS15-UV10 15x15cm / MS15-UV15	15x20cm / MS15- UVST20 15x25cm / MS15- UVST25
Sample Capacity†	32 (7x7cm); 1-64 (7x10cm)	1-50 (10x7cm); 1-100 (10x10cm)	1-70 (15x7cm); 1-140 (15x10cm); 1-210 (15x15cm)	1-280 (15x20cm); 1-350 (15x25cm)
Tank Buffer Volume	225ml	300ml	500ml	1000ml
Combs available; Thickness No. of Teeth	0.75, 1.0, 1.5, 2.0mm 1, 2, 4, 8, 10, 12, 16	0.75, 1.0, 1.5, 2.0mm 1, 2, 4, 8, 10MC, 12, 16, 20, 25	0.75, 1.0, 1.5, 2.0mm 1, 2, 4, 10, 10MC, 12, 14MC, 16MC, 18MC, 20, 28MCSS, 30MCSS, 35	0.75, 1.0, 1.5, 2.0mm 1, 2, 4, 10, 10MC, 12, 14MC, 16MC, 18MC, 20, 28MCSS, 35
Buffer Recirculation	No	No	Recommended for high voltage applications or extended runs. Requires modified lid with 2 buffer recirculation ports. Available on request as per part numbers below: -	
			MS15LID-BP	MS15STLID-BP
Plug-and-Go Casting Dams Supplied	Yes, 1 pair	Yes, 1 pair	Yes, 1 pair	Yes, 1 pair
Flexicaster Options & Tray Capacity	MS7/10-FC: 1 tray MS15/20-FC: 2 trays* MS26-FC: 3 trays*	MS7/10-FC: 1 tray MS15/20-FC: 1 tray MS26-FC: 3 trays*	MS15/20-FC: 1 tray MS26-FC: 1 tray	MS15/20-FC: 1 tray MS26-FC: up to 3x 7cm trays
Typical Running Conditions	80V, 45-60 minutes	90V, 45-60 minutes	90-150V, 60-90 minutes	100-150V, 60-90 minutes
Bromophenol Blue Migration	~4-5cm/h at 80V	~4-5cm/h at 90V	~4-7cm/h at 90-150V	~4-6cm/h at 100-150V
Ordering Information All Horizontal Gel Tank Models include a Gel Tank, Lid and power cables, sample combs, loading guides and casting dams. (MSMINIONE also includes power supply). Additional accessories are dependent on the catalogue code ordered e.g. MSMINI7 includes the above plus 1x 7x7cm UV Tray.	MSMINI7 , 7 x 7cm UV Tray MSMINI10 , 7 x 10cm UV Tray MSMINIDUO , 7 x 7cm and 7 x 10cm UV Tray 2 x 8 sample combs, loading guides and casting dams	MSMIDI7 , 10 x 7cm UV Tray MSMIDI10 , 10 x 10cm UV Tray MSMIDIDUO , 10 x 7cm and 10 x 10cm UV Tray 2 x 16 sample combs, loading guides and casting dams	MSCHOICE7 , 15 x 7cm UV Tray MSCHOICE10 , 15 x 10cm UV Tray MSCHOICE15 , 15 x 15cm UV Tray MSCHOICETRIO , 15 x 7cm, 15 x 10cm and 15 x 15cm UV Tray 2 x 20 sample combs, loading guides and casting dams	MSCHOICEST20 , 15 x 20cm UV Tray MSCHOICEST25 , 15 x 25cm UV Tray 4 x 28 sample combs

† Additional combs may be required to achieve maximum sample capacity

* Assumes multiSUB trays are of the same length (e.g. two MS7-UV7) and arranged side-by-side



MSMAXI	MSSCREEN	miniRAPIDE	MSMIDI96	miniONE
Suitable for RFLP analysis, southern and northern blotting preps and high throughput analysis with up to 550 samples.	Multichannel compatible combs included as standard for maximum efficiency with high sample numbers. Screen an entire 96 well plate in a single run with excellent resolution and run length.	An ultra-compact self-contained system for routine molecular biology procedures and quick checks of samples. Buffer and gel volumes kept to a minimum to maximise current and separation speed. UV transparent for direct gel imaging	Rapidly screen a 96 well or PCR plate. Multichannel pipette loading with a 1.8cm run length allows samples to be resolved in under 30 minutes. Stretch version available for extended run length	An all in one power supply and gel tank with 3 preset voltages. Inbuilt timer to stop the run at the desired time and simple casting system for small, economical gels.
23 x 39.5 x 9cm	28 x 50 x 9cm	15 x 15 x 4cm	12.5 x 22 x 9cm (MSMIDI96) 12.5 x 46.5 x 8cm (MSMIDI96ST)	190 x 130 x 55mm
20x10cm / MS20-UV10 20x15cm / MS20-UV15 20x20cm / MS20-UV20 20x25cm / MS20-UV25	26x16cm / MS26-UV16 26x24cm / MS26-UV24 26x32cm / MS26-UV32	10x8cm / in-built tray	10x12cm / MS10-UV96 10x24cm / MS10-UV96ST	10.5 x 6cm 5 x 6cm
1-200 (20x10cm) 1-350 (20x15cm) 1-450 (20x20cm) 1-550 (20x25cm)	28-336 (26x16cm) 28-504 (26x24cm) 28-672 (26x32cm)	1-40 (10x8cm)	96 samples plus 12 (1 lane) or 24 (2 lanes) marker wells	18 (2x 5x6cm); 22 (10.5x6cm)
1200ml	1400ml	50ml	300ml (MSMIDI96) 700ml (MSMIDI96ST)	230ml
0.75, 1.0, 1.5, 2.0mm 1, 2, 4, 10, 16, 20MC, 25, 30, 36, 40MCSS, 50	0.75, 1.0, 1.5, 2.0mm 28MC, 56MCSS	1.0, 1.5mm 1, 4, 8, 12, 16, 20	1.0, 1.5mm 8 + 1x Marker, 8 + 2x Markers	
As for MSCHOICE and MSCHOICEST	Yes – buffer recirculation ports included as standard	No	No	No
MS20LID-BP				
Yes, 1 pair	No – supplied with dedicated MSSCREEN flexicaster;	No - supplied with inner casting gates	Yes	No- supplied with casting trays
MS15/20-FC: 1 tray MS26-FC: 1 tray	MS26-FC: 1 tray	No	Same Flexicasters as MSMIDI	No
100-150V, 60-90 minutes	100-150V, 90-120 minutes	50V, 30-60 minutes	90V, 15-30 minutes	50V, 30-60 min
~4-6.5cm/h at 100-150V	~4-6cm/hr at 100-150V	~4cm/hr at 50V	~4-5cm/hr at 90V	~4cm/hr at 50V
MSMAXI10 , 20 x 10cm UV Tray MSMAXI15 , 20 x 15cm UV Tray MSMAXI20 , 20 x 20cm UV Tray MSMAXI25 , 20 x 25cm UV Tray MSMAXIDUO , 20 x 10 and 20 x 20cm UV Tray 2 x 20 sample combs, loading guides and casting dams	MSSCREEN16 , 26 x 16cm UV Tray MSSCREEN24 , 26 x 24cm UV Tray MSSCREEN32 , 26 x 32cm UV Tray MSSCREENTRIO , 26 x 16cm, 26 x 24cm and 26 x 32cm UV Trays 6 x 28 sample combs, loading guides and Flexicaster	FMMS10 , 10 x 8cm UV Tray 2 x 8 sample combs 1.5mm and casting dams	MSMIDI96 , 1 Marker Lane, 1.8 cm run length MSMIDI96/2M , 2 Marker Lanes, 1.8 cm run length MSMIDI96ST , 1 Marker Lane, 3.6 cm run length MSMIDI96ST/2M , 2 Marker Lanes, 3.6 cm run length Comb block with 12 x 8 sample	MSMINIONE , 2 x 11x6cm UV Trays, 4 x 5.4x6cm UV Trays 2x Full length combs for 11x6cm UV Trays; 2x Double Comb for 5.4x6cm UV Trays, 1x Gel Caster – Large, 1x Gel Caster – Small



multisUB Horizontal Gel Systems

The multiSUB™ series of Horizontal Gel Units offers the most versatile solution for DNA and RNA agarose gel electrophoresis currently available.

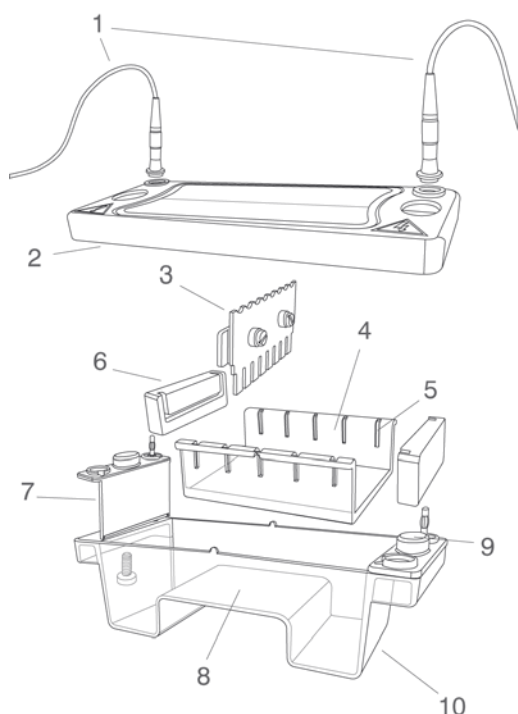
- Injection Moulded Construction
- durable, leak-proof environment for complete safety and long life
- Cassette Type Electrodes
- inexpensive, easy to replace
- Made of 99.99% pure, corrosion resistant platinum
- Electrical Safety - lid can be located in one way only. On removal, power is disconnected from buffer chamber
- Multiple Gel Trays - eliminates the need for additional gel tanks
- Unique gel cooling option
- Easy Click Lid Removal

All five units offer an unsurpassed combination of economy of gel and buffer volume, with gel size and sample number versatility.

Gel size and sample number requirements can be exactly matched in each unit, with the option of additional gel tray sizes. This eliminates the need for multiple gel tanks for changes in gel size or application.

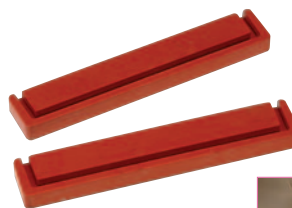
All units feature removable UV transparent trays. For optimum value and versatility, systems are available with one, two or three tray options (dependent on model). Easy to use, leak proof 'plug and go' gel casting dams are included as standard to allow gels to be rapidly cast whilst the multiSUB unit is in use for gel running. With no indentations or casting gate grooves in the tray to interfere with sample progression, traditional tape casting can be used, should this be preferred.

Although lid connectors are compatible with most major power supplies, adapters are available to provide complete compatibility.



Components of multiSUB gel chambers

- 1 Power Cables
- 2 Safety Lid & Viewing Pane
- 3 Height-adjustable comb
- 4 UV transparent gel tray
- 5 Comb slots
- 6 'Plug-and-Go' casting dams
- 7 Colour-coded electrodes with power plug connectors
- 8 Gel Platform
- 9 Safety lid thumb locators
- 10 Moulded tank



"plug and go"
gel casting



Locate
Edge #1 in
Dam slot

Locate
Edge #2 in
Dam slot

Finished,
simple.
Now pour
gel

gel trays



Gel trays are UV transparent and free of indentations or casting gate channels which can interfere with sample progression

Cassette Type Electrodes easy to replace

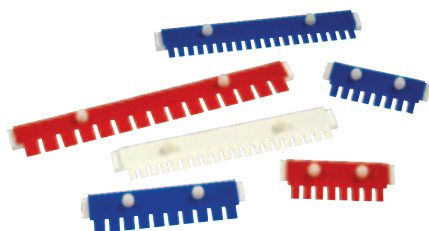


Retractable connectors compatible with most major power supplies

Corrosion resistant, 99.99% pure platinum electrodes and gold plated terminals - easily replaced, ensuring minimum repair times



combs



- four thicknesses, colour coded
 - black:** 0.75mm for ultra resolved bands
 - white:** 1mm supplied as standard
 - red:** 1.5mm for maximising sample volume
 - blue:** 2mm for maximising sample volume
- options for Sample Prep
- options for Multi-Channel Pipette Compatible

The number of samples can be maximised using high tooth number combs

Casting dams allow gels to be rapidly cast externally while the multiSUB™ unit is in use for gel running



Easy Click Lid Removal

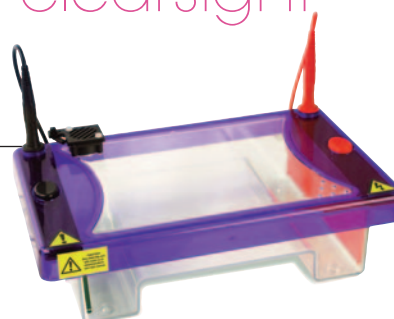


For Horizontal Package Deals

unique clearsight



USB powered extraction fan



ClearSight lids solve the condensation build-up problem and so provide a perfectly clear view of the gel and the dye lane progression during the run. This is achieved using a USB powered extraction fan within the lid. ClearSight lids are available as components of complete systems or as upgrades.



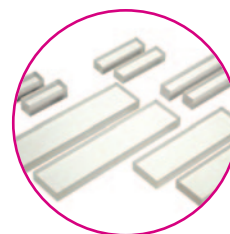
UK designed and manufactured

T_+44 (0)1788 565 300 E_info@cleaverscientific.com

multisUB Mini

multisUB™ Mini is the smallest unit in the range, designed for low to medium numbers of samples.

The small gel size maximises run economy but does not compromise versatility as two tray options are available – **7 x 7cm** and **7 x 10cm** – and combs ranging from preparative up to 16 samples. Simply by altering the gel tray or comb, this compact unit is capable of resolving up to 64 different samples, prepping 1ml of sample or separating sample bands over a distance of 9cm. For accessories see page 17 and for Power Supplies, see page 60.



Buffer saver blocks

physically reduce the volume of a gel chamber and so reduce buffer requirements, saving cost, see pages 6 and 17



Molecular Grade Agaroses

are suitable for routine analysis of nucleic acids, see page 29

KEY FEATURES

multisUB Mini is the preferred option for quick sample checks of small to medium volumes, particularly following restriction digestion during cloning. Its slim tray format makes MSMINI a very economical choice for separation of up to 64 samples.

- Available with 7 x 7cm, 7 x 10cm or with both gel trays
- Economic low gel and buffer volumes
- Small lab bench footprint

ORDERING INFORMATION

MSMINI7 multisUB Mini, 7 x 7cm UV Tray, 2 x 8 sample combs, loading guides and dams

MSMINI10 multisUB Mini, 7 x 10cm UV Tray, 2 x 8 sample combs, loading guides and dams

MSMINIDUO multisUB Mini Duo, 7 x 7cm & 7 x 10cm UV Tray, 2 x 8 sample combs, loading guides and dams

MINIAGAROSEPACK Complete Mini Agarose Gel Kit includes multisUB Midi (MSMIDIDUO), Power Supply (POWERPRO300), TAE Buffer (TAE50X1L), RunSafe (CSL-RUNSAFE), DNA Ladder (CSL-MDNA-1KBPLUS), 100g Agarose (CSL-AG100), Gel Scoop (MS10-UVS), Gel Ruler (CSL-RULER)

MS7-UV7	7 x 7cm UV Tray	MS7-LG	Adhesive Loading Guides	MS7/10-FC	Flexicaster for multisUB MSMINI/MSMIDI
MS7-UV10	7 x 10cm UV Tray	MS7-WP	Viewing Platform	MSMINIXCS	ClearSight MINI, as above with fan & power source where 'x' should be replaced with '7', '10' or 'DUO'
MS7-PE	Positive Electrode	MS7-UVS	7cm UV Gel Scoop		
MS7-NE	Negative Electrode	MSMINICP	Cool-pack and Platform		
MS7-UVDAM	Casting Dams, pk/2	MSMINIBSB	Buffer Saver Blocks, pk/2, saves 100ml of buffer		

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
	MS7-1-0.75	Comb Prep 1, Marker 1, 0.75mm thick	152µl
	MS7-2-0.75	Comb Prep 2, Marker 2, 0.75mm thick	68µl
	MS7-4-0.75	Comb Prep 4, Marker 2, 0.75mm thick	36µl
	MS7-8-0.75	Comb 8 sample, 0.75mm thick	19µl
	MS7-10-0.75	Comb 10 sample, 0.75mm thick	14µl
	MS7-12-0.75	Comb 12 sample, 0.75mm thick	10µl
	MS7-16-0.75	Comb 16 sample, 0.75mm thick	7µl
	MS7-1-1	Comb Prep 1, Marker 1, 1mm thick	203µl
	MS7-2-1	Comb Prep 2, Marker 2, 1mm thick	90µl
	MS7-4-1	Comb Prep 4, Marker 2, 1mm thick	48µl
	MS7-8-1	Comb 8 sample, 1mm thick	25µl
	MS7-10-1	Comb 10 sample, 1mm thick	18µl
	MS7-12-1	Comb 12 sample MC, 1mm thick	14µl
	MS7-16-1	Comb 16 sample, 1mm thick	10µl

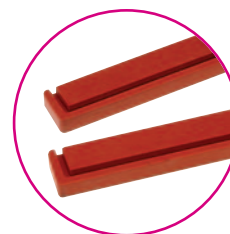
MC = multichannel pipette compatible

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
	MS7-1-1.5	Comb Prep 1, Marker 1, 1.5mm thick	304µl
	MS7-2-1.5	Comb Prep 2, Marker 2, 1.5mm thick	135µl
	MS7-4-1.5	Comb Prep 4, Marker 2, 1.5mm thick	72µl
	MS7-8-1.5	Comb 8 sample, 1.5mm thick	37µl
	MS7-10-1.5	Comb 10 sample, 1.5mm thick	27µl
	MS7-12-1.5	Comb 12 sample, 1.5mm thick	20µl
	MS7-16-1.5	Comb 16 sample, 1.5mm thick	15µl
	MS7-1-2	Comb Prep 1, Marker 1, 2mm thick	405µl
	MS7-2-2	Comb Prep 2, Marker 2, 2mm thick	180µl
	MS7-4-2	Comb Prep 4, Marker 2, 2mm thick	96µl
	MS7-8-2	Comb 8 sample, 2mm thick	50µl
	MS7-10-2	Comb 10 sample, 2mm thick	36µl
	MS7-12-2	Comb 12 sample, 2mm thick	27µl
	MS7-16-2	Comb 16 sample, 2mm thick	20µl

MCSS = fits multichannel loading every second well, see page 18

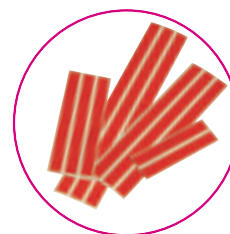
With gel tray options of **10 x 7cm** and **10 x 10cm**, multiSUB™ Midi has been designed for routine horizontal gel electrophoresis.

Extending only the width of this unit allows more samples to be resolved per gel than multiSUB™ Mini without a significant increase in buffer or gel volumes. A maximum of 100 samples per gel can be resolved making this unit ideal for those routinely checking medium numbers of samples over short to medium gel run lengths. Scoops available as an option to allow safe transfer of gels. For accessories see page 17 and for Power Supplies, see page 60.



Casting Dams

allow gels to be rapidly cast externally while the multiSUB™ unit is in use for gel running, see pages 6 and 17



Adhesive Loading Guides

allow easy well identification and sample loading, see page 17



KEY FEATURES

These units offer the same tray lengths as the multiSUB Mini but in a wider format, to run more samples just as economically under similar running conditions. Ideal for quick checks of samples from PCR and cloning:

- Available with 10 x 7cm, 10 x 10cm or with both gel trays
- Run up to 100 samples
- Low buffer volumes
- Ideal for rapid electrophoresis

ORDERING INFORMATION

MSMIDI7	multiSUB Midi , 10 x 7cm UV Tray, 2 x 16 sample combs, loading guides and dams				
MSMIDI10	multiSUB Midi , 10 x 10cm UV Tray, 2 x 16 sample combs, loading guides and dams				
MSMIDI2DUO	multiSUB Midi Duo , 10 x 7cm & 10 x 10cm UV Tray, 2 x 16 sample combs, loading guides and dams				
MS10-UV7	10 x 7cm UV Tray	MS10-LG	Adhesive Loading Guides	MSMIDI7BSB	Buffer Saver Blocks, pk/2, saves 100ml of buffer
MS10-UV10	10 x 10cm UV Tray	MS10-WP	Viewing Platform	MSMIDI7CS	ClearSight MIDI, as above with
MS10-PE	Positive Electrode	MS10-UVS	10cm UV Gel Scoop		Fan & power source where 'x' should
MS10-NE	Negative Electrode	MS7/10-FC	Flexicaster for multiSUB Mini/Midi		be replaced with '7', '10' or 'DUO'
MS10-UV DAM	Casting Dams, pk/2	MSMIDI7CP	Cool-Pack and Platform		

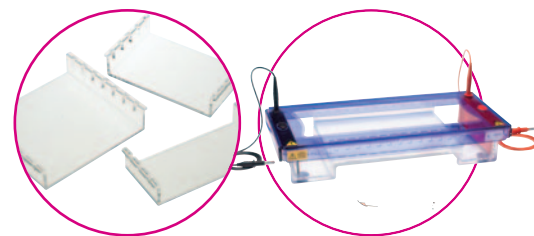
Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
Black	MS10-1-0.75	Comb Prep 1, Marker 1, 0.75mm thick	270µl	Red	MS10-1-1.5	Comb Prep 1, Marker 1, 1.5mm thick	540µl
	MS10-2-0.75	Comb Prep 2, Marker 2, 0.75mm thick	118µl		MS10-2-1.5	Comb Prep 2, Marker 2, 1.5mm thick	236µl
	MS10-4-0.75	Comb Prep 4, Marker 2, 0.75mm thick	57µl		MS10-4-1.5	Comb Prep 4, Marker 2, 1.5mm thick	115µl
	MS10-8-0.75	Comb 8 sample, 0.75mm thick	30µl		MS10-8-1.5	Comb 8 sample, 1.5mm thick	61µl
	MS10-10MC-0.75	Comb 10 sample MC, 0.75mm thick	20µl		MS10-10MC-1.5	Comb 10 sample MC, 1.5mm thick	41µl
	MS10-12-0.75	Comb 12 sample, 0.75mm thick	17µl		MS10-12-1.5	Comb 12 sample, 1.5mm thick	34µl
	MS10-16-0.75	Comb 16 sample, 0.75mm thick	12µl		MS10-16-1.5	Comb 16 sample, 1.5mm thick	24µl
	MS10-20-0.75	Comb 20 sample, 0.75mm thick	10µl		MS10-20-1.5	Comb 20 sample, 1.5mm thick	20µl
White	MS10-25-0.75	Comb 25 sample, 0.75mm thick	7µl	Blue	MS10-25-1.5	Comb 25 sample, 1.5mm thick	15µl
	MS10-1-1	Comb Prep 1, Marker 1, 1mm thick	360µl		MS10-1-2	Comb Prep 1, Marker 1, 2mm thick	720µl
	MS10-2-1	Comb Prep 2, Marker 2, 1mm thick	158µl		MS10-2-2	Comb Prep 2, Marker 2, 2mm thick	315µl
	MS10-4-1	Comb Prep 4, Marker 2, 1mm thick	77µl		MS10-4-2	Comb Prep 4, Marker 2, 2mm thick	153µl
	MS10-8-1	Comb 8 sample, 1mm thick	41µl		MS10-8-2	Comb 8 sample, 2mm thick	81µl
	MS10-10MC-1	Comb 10 sample MC, 1mm thick	27µl		MS10-10MC-2	Comb 10 sample MC, 2mm thick	54µl
	MS10-12-1	Comb 12 sample, 1mm thick	23µl		MS10-12-2	Comb 12 sample, 2mm thick	45µl
	MS10-16-1	Comb 16 sample, 1mm thick	16µl		MS10-16-2	Comb 16 sample, 2mm thick	32µl
Grey	MS10-20-1	Comb 20 sample, 1mm thick	14µl		MS10-20-2	Comb 20 sample, 2mm thick	27µl
	MS10-25-1	Comb 25 sample, 1mm thick	10µl		MS10-25-2	Comb 25 sample, 2mm thick	20µl

multiSUB Choice

With its three tray options, multiSUB™ Choice offers a wide degree of versatility.

Three tray options are available – 15 x 7cm, 15 x 10cm and 15 x 15cm – allowing the choice of one, two or all three gel length options at the time of purchase. Maximising comb and tray options allow up to 210 samples to be resolved per gel. The 15cm total run length allows restriction fragment or other close MW sample bands to be easily separated and identified. Speed loading is accomplished using 10, 14, 16 and 28 sample multichannel pipette compatible combs.

multiSUB™ Choice Stretch units are available with optional 15 x 20cm and 15 x 25cm gel trays and four 28-sample combs for those researchers wanting to perform higher resolution separation of more samples over a longer distance. multiSUB™ Choice Trio includes all 3 tray sizes for optimum versatility and value. For Power Supplies, see page 60.



multiSUB Choice Trio includes all 3 tray sizes for optimum versatility and value

multiSUB Choice Stretch increases sample capacity to 350



KEY FEATURES

multiSUB Choice is ideal for restriction fragment analysis, sample prep or checking of high numbers of samples.

- Three tray options
- Run up to 210 samples
- Low buffer volumes
- Multichannel pipette compatible combs for speed loading

ORDERING INFORMATION

MSCHOICE7	multiSUB Choice. 15 x 7cm UV Tray, 2 x 20 sample combs*		MSCHOICETRIO multiSUB Choice Trio. 15 x 7, 10 and 15cm UV Tray, 2 x 20 sample combs*		
MSCHOICE10	multiSUB Choice. 15 x 10cm UV Tray, 2 x 20 sample combs*		MSCHOICEST20 multiSUB Choice Stretch. 15 x 20cm UV Tray, 4 x 28 sample combs*		
MSCHOICE15	multiSUB Choice. 15 x 15cm UV Tray, 2 x 20 sample combs*		MSCHOICEST25 multiSUB Choice Stretch. 15 x 25cm UV Tray, 4 x 28 sample combs*		
CHOICEAGAROSEPACK	Complete 15 x 15 cm Agarose Gel Kit includes multiSUB Choice (MSCHOICETRIO), Power Supply (POWERPRO300), TAE Buffer (TAE50X1L), RunSafe (CSL-RUNSAFE), DNA Ladder (CSL-MDNA-1KBPLUS), 100g Agarose (CSL-AG100), Gel Scoop (MS15-UVS), Gel Ruler (CSL-RULER)				
MS15-UV7	15 x 7cm UV Tray	MS15-PE	Positive Electrode	MSCHOICEBSB	Buffer Saver Blocks pk/2, saves 190ml of buffer
MS15-UV10	15 x 10cm UV Tray	MS15-NE	Negative Electrode	MS15/20-FC	Flexicaster for multiSUB Choice / Maxi
MS15-UV15	15 x 15cm UV Tray	MS15-LG	Adhesive Loading Guides	MSCHOICExCS	ClearSight Choice, as above
MS15-UVST20	15 x 20 cm UV Tray	MS15-UVS	15cm UV Gel Scoop		with Fan & power source.
MS15-UVST25	15 x 25 cm UV Tray	MSCHOICECP	Cool-Pack and Platform		where 'x' should be replaced
MS15-UVDAM	Casting Dams, pk/2	MS15-WP	Viewing Platform		with '7'; '10'; '15'; '20'; '25' or 'TRIO'

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5mm THICK GEL	Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5mm THICK GEL
	MS15-1-0.75	Comb Prep 1, Marker 1, 0.75mm thick	37µl		MS15-1-1.5	Comb Prep 1, Marker 1, 1.5mm thick	743µl
	MS15-2-0.75	Comb Prep 2, Marker 2, 0.75mm thick	169µl		MS15-2-1.5	Comb Prep 2, Marker 2, 1.5mm thick	338µl
	MS15-4-0.75	Comb Prep 4, Marker 2, 0.75mm thick	91µl		MS15-4-1.5	Comb Prep 4, Marker 2, 1.5mm thick	182µl
	MS15-10-0.75	Comb 10 sample, 0.75mm thick	34µl		MS15-10-1.5	Comb 10 sample, 1.5mm thick	68µl
	MS15-10MC-0.75	Comb 10 sample MC, 0.75mm thick	22µl		MS15-10MC-1.5	Comb 10 sample MC, 1.5mm thick	44µl
	MS15-12-0.75	Comb 12 sample, 0.75mm thick	30µl		MS15-12-1.5	Comb 12 sample, 1.5mm thick	61µl
	MS15-14MC-0.75	Comb 14 sample MC, 0.75mm thick	22µl		MS15-14MC-1.5	Comb 14 sample MC, 1.5mm thick	44µl
	MS15-16MC-0.75	Comb 16 sample MC, 0.75mm thick (DuoComb - 17MC on reverse)	16µl		MS15-16MC-1.5	Comb 16 sample, 1.5mm thick (DuoComb - 17MC on reverse)	32µl
	MS15-18MC-0.75	Comb 18 sample MC, 0.75mm thick (DuoComb - 17MC on reverse)	20µl		MS15-18MC-1.5	Comb 18 sample MC, 1.5mm thick (DuoComb - 17MC on reverse)	41µl
	MS15-20-0.75	Comb 20 sample, 0.75mm thick	16µl		MS15-20-1.5	Comb 20 sample, 1.5mm thick	32µl
	MS15-28MCSS-0.75	Comb 28 sample MC, 0.75mm thick	8µl		MS15-28MCSS-1.5	Comb 28 sample MC, 1.5mm thick	17µl
	MS15-30MCSS-0.75	Comb 30 sample MC, 0.75mm thick	8µl		MS15-30MCSS-1.5	Comb 30 sample MC, 1.5mm thick	17µl
	MS15-35-0.75	Comb 35 sample, 0.75mm thick	9µl		MS15-35-1.5	Comb 35 sample, 1.5mm thick	19µl
	MS15-1-1	Comb Prep 1, Marker 1, 1mm thick	495µl		MS15-1-2	Comb Prep 1, Marker 1, 2mm thick	990µl
	MS15-2-1	Comb Prep 2, Marker 2, 1mm thick	225µl		MS15-2-2	Comb Prep 2, Marker 2, 2mm thick	450µl
	MS15-4-1	Comb Prep 4, Marker 2, 1mm thick	122µl		MS15-4-2	Comb Prep 4, Marker 2, 2mm thick	243µl
	MS15-10-1	Comb 10 sample, 1mm thick	45µl		MS15-10-2	Comb 10 sample, 2mm thick	90µl
	MS15-10MC-1	Comb 10 sample MC, 1mm thick	29µl		MS15-10MC-2	Comb 10 sample MC, 2mm thick	59µl
	MS15-12-1	Comb 12 sample, 1mm thick	41µl		MS15-12-2	Comb 12 sample, 2mm thick	81µl
	MS15-14MC-1	Comb 14 sample MC, 1mm thick	29µl		MS15-14MC-2	Comb 14 sample MC, 2mm thick	59µl
	MS15-16MC-1	Comb 16 sample, 1mm thick (DuoComb - 17MC on reverse)	21µl		MS15-16MC-2	Comb 16 sample, 2mm thick (DuoComb - 17MC on reverse)	43µl
	MS15-18MC-1	Comb 18 sample MC, 1mm thick (DuoComb - 17MC on reverse)	27µl		MS15-18MC-2	Comb 18 sample MC, 2mm thick (DuoComb - 17MC on reverse)	54µl
	MS15-20-1	Comb 20 sample, 1mm thick	21µl		MS15-20-2	Comb 20 sample, 2mm thick	43µl
	MS15-28MCSS-1	Comb 28 sample MC, 1mm thick	11µl		MS15-28MCSS-2	Comb 28 sample MC, 2mm thick	23µl
	MS15-30MCSS-1	Comb 30 sample MC, 1mm thick	11µl		MS15-30MCSS-2	Comb 30 sample MC, 2mm thick	23µl
	MS15-35-1	Comb 35 sample, 1mm thick	10µl		MS15-35-2	Comb 35 sample, 2mm thick	25µl

MC = multichannel pipette compatible

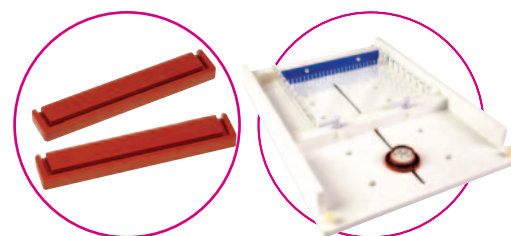
* all models include loading guides and casting dams

MCSS = fits multichannel loading every second well, see page 18

multiSUB™ Maxi is primarily designed for resolution of high numbers of samples such as from Clone Screening or PCR.

multiSUB™ Maxi allows ultra high-resolution separations over extended runs. Tray sizes correspond to standard blotter sizes.

It also allows easy sample transfer onto a membrane for further analysis. Four gel tray sizes are available – **20 x 10cm, 20 x 15cm, 20 x 20cm** and **20 x 25cm**. Multichannel pipette compatible combs up to 40 sample facilitate speed loading of up to 440 samples per gel. 50 sample combs allow maximum sample capacity of 550 samples per gel. Casting dams allow gels to be rapidly cast externally while the multiSUB™ unit is in use for gel running. For Power Supplies, see page 60.



Casting dams allow gels

to be rapidly cast externally while the MultiSub™ unit is in use for gel running

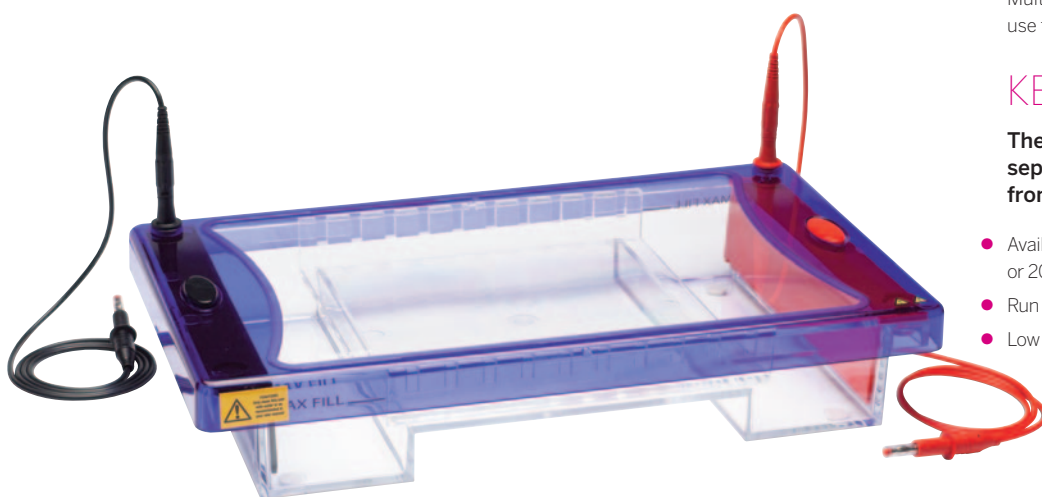
Flexicaster allows

casting of gel lengths up to 20cm, simply by locking the moveable dam, see page 17

KEY FEATURES

These units are primarily designed for separating high numbers of samples from PCR or cloning:

- Available with 20 x 25cm, 20 x 20cm, 20 x 15cm or 20 x 10cm gel trays
- Run up to 550 samples
- Low buffer volumes



ORDERING INFORMATION

MSMAXI10	multiSUB Maxi , 20 x 10cm UV Tray, 2 x 20 sample combs*	MSMAXI25	multiSUB Maxi , 20 x 25cm UV Tray, 2 x 20 sample combs*
MSMAXI15	multiSUB Maxi , 20 x 15cm UV Tray, 2 x 20 sample combs*	MSMAXIDUO	multiSUB Maxi Duo , 20 x 10 and 20 x 20cm UV Tray, 2 x 20 sample combs*
MSMAXI20	multiSUB Maxi , 20 x 20cm UV Tray, 2 x 20 sample combs*		
MS20-UV10	20 x 10cm UV Tray	MS20-PE	Positive Electrode
MS20-UV15	20 x 15cm UV Tray	MS20-NE	Negative Electrode
MS20-UV20	20 x 20cm UV Tray	MS20-UVS	20cm UV Gel Scoop
MS20-UV25	20 x 25cm UV Tray	MSMAXICP	Cool-Pack and Platform
MS20-UV DAM	Casting Dams, pk/2	MS20-WP	Viewing Platform
MS20-LG	Adhesive Loading Guides	MSMAXIBSB	Buffer Saver Blocks pk/2, saves 450ml of buffer
MS15/20-FC	Flexicaster for multiSUB Choice / Maxi		
CSL-GLT	Gel Levelling Table		
MSMAXIXCS	Clearsight Maxi, as above with		
	Fan & Power Source		
	where 'x' should be replaced with		
	'10', '15', '20', '25' or 'Duo'		

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5mm THICK GEL	Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5mm THICK GEL
	MS20-1-0.75	Comb Prep 1, Marker 1, 0.75mm thick	506µl		MS20-1-1.5	Comb Prep 1, Marker 1, 1.5mm thick	1013µl
	MS20-2-0.75	Comb Prep 2, Marker 2, 0.75mm thick	236µl		MS20-2-1.5	Comb Prep 2, Marker 2, 1.5mm thick	473µl
	MS20-4-0.75	Comb Prep 4, Marker 2, 0.75mm thick	115µl		MS20-4-1.5	Comb Prep 4, Marker 2, 1.5mm thick	230µl
	MS20-10-0.75	Comb 10 sample, 0.75mm thick	54µl		MS20-10-1.5	Comb 10 sample, 1.5mm thick	108µl
	MS20-16-0.75	Comb 16 sample, 0.75mm thick	30µl		MS20-16-1.5	Comb 16 sample, 1.5mm thick	61µl
	MS20-20MC-0.75	Comb 20 sample MC, 0.75mm thick	20µl		MS20-20MC-1.5	Comb 20 sample MC, 1.5mm thick	41µl
	MS20-25-0.75	Comb 25 sample, 0.75mm thick	16µl		MS20-25-1.5	Comb 25 sample, 1.5mm thick	32µl
	MS20-30-0.75	Comb 30 sample, 0.75mm thick	13µl		MS20-30-1.5	Comb 30 sample, 1.5mm thick	26µl
	MS20-36-0.75	Comb 36 sample, 0.75mm thick	11µl		MS20-36-1.5	Comb 36 sample, 1.5mm thick	22µl
	MS20-40MCSS-0.75	Comb 40 sample MC, 0.75mm thick	8µl		MS20-40MCSS-1.5	Comb 40 sample MC, 1.5mm thick	17µl
	MS20-50-0.75	Comb 50 sample, 0.75mm thick	8µl		MS20-50-1.5	Comb 50 sample, 1.5mm thick	16µl
	MS20-1-1	Comb Prep 1, Marker 1, 1mm thick	675µl		MS20-1-2	Comb Prep 1, Marker 1, 2mm thick	1350µl
	MS20-2-1	Comb Prep 2, Marker 2, 1mm thick	315µl		MS20-2-2	Comb Prep 2, Marker 2, 2mm thick	630µl
	MS20-4-1	Comb Prep 4, Marker 2, 1mm thick	153µl		MS20-4-2	Comb Prep 4, Marker 2, 2mm thick	306µl
	MS20-10-1	Comb 10 sample, 1mm thick	72µl		MS20-10-2	Comb 10 sample, 2mm thick	144µl
	MS20-16-1	Comb 16 sample, 1mm thick	41µl		MS20-16-2	Comb 16 sample, 2mm thick	81µl
	MS20-20MC-1	Comb 20 sample MC, 1mm thick	27µl		MS20-20MC-2	Comb 20 sample MC, 2mm thick	54µl
	MS20-25-1	Comb 25 sample, 1mm thick	21µl		MS20-25-2	Comb 25 sample, 2mm thick	42µl
	MS20-30-1	Comb 30 sample, 1mm thick	17µl		MS20-30-2	Comb 30 sample, 2mm thick	34µl
	MS20-36-1	Comb 36 sample, 1mm thick	14µl		MS20-36-2	Comb 36 sample, 2mm thick	29µl
	MS20-40MCSS-1	Comb 40 sample MC, 1mm thick	11µl		MS20-40MCSS-2	Comb 40 sample MC, 2mm thick	23µl
	MS20-50-1	Comb 50 sample, 1mm thick	10µl		MS20-50-2	Comb 50 sample, 2mm thick	21µl

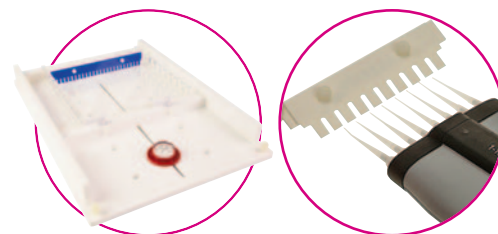
multiSUB Screen

multiSUB™ Screen was designed for rapid screening of very large numbers of Clone Screenings or PCR samples.

multiSUB™ Screen horizontal gel unit has a maximum sample capacity of 672 per gel. This allows loading and analysis of exactly seven 96 well format micro titre plates. The large gel run length of 32cm also allows resolution of samples over a long distance for separation of complex sample bands such as in restriction fragment analysis.

The unit is available with a full length tray or with other tray length options of **16 or 24cm** so that the user's exact requirements can be matched. In addition to options for single length gel trays, multiSUB™ Screen is available with all three gel tray lengths to provide the maximum in flexibility, versatility and value.

Buffer recirculation ports are included as standard to allow enhanced resolution over extended runs while loading guides improve well visibility for easy sample loading. For Power Supplies, see page 60.



Screen FlexiCaster

Leak free casting assured, even with agarose at 80°C

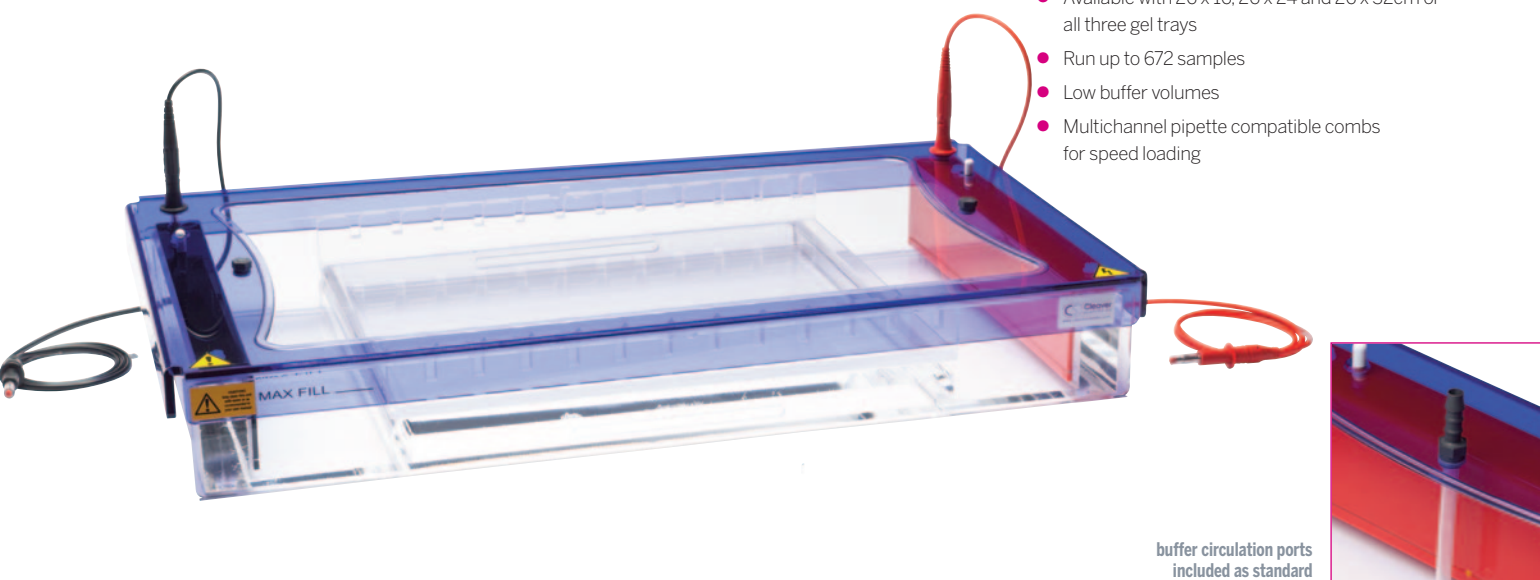
all multiSUB Screen combs

are multichannel pipette compatible

KEY FEATURES

multiSUB Screen is ideal for checking very large numbers of samples or extended high resolution separations

- Available with 26 x 16, 26 x 24 and 26 x 32cm or all three gel trays
- Run up to 672 samples
- Low buffer volumes
- Multichannel pipette compatible combs for speed loading



buffer circulation ports included as standard

ORDERING INFORMATION

MSSCREEN16	multiSUB Screen , 26 x 16cm UV Tray, 6 x 28 sample combs, loading guides and Flexicaster	MSSCREEN16-NC	multiSUB Screen-16 without Flexicaster
MSSCREEN24	multiSUB Screen , 26 x 24cm UV Tray, 6 x 28 sample combs, loading guides and Flexicaster	MSSCREEN24-NC	multiSUB Screen-24 without Flexicaster
MSSCREEN32	multiSUB Screen , 26 x 32cm UV Tray, 6 x 28 sample combs, loading guides and Flexicaster	MSSCREEN32-NC	multiSUB Screen-32 without Flexicaster
MSSCREENTRIO	multiSUB Screen Trio , 26 x 16cm, 26 x 24cm, 26 x 32cm UV Trays, 6 x 28 sample combs, loading guides and Flexicaster	MSSCREENTRIO-NC	multiSUB Screen-TRIO without Flexicaster
SCREENAGAROSEPACK Complete High Throughput Agarose Gel Kit , includes multiSUB Screen (MSSCREENTRIO), Power Supply (POWERPRO500), TAE Buffer (TAE50X1L), RunSafe (CSL-RUNSAFE), DNA Ladder (CSL-MDNA-1KBPLUS), 100g Agarose (CSL-AG100), Gel Scoop (MS26-UVS), Gel Ruler (CSL-RULER)			
MS26-UV32	26 x 32cm UV Tray	MS26-PE	Positive Electrode
MS26-UV24	26 x 24cm UV Tray	MS26-NE	Negative Electrode
MS26-UV16	26 x 16cm UV Tray	MSSCRNCP	Cool-Pack and Platform
MS26-LG	Adhesive Loading Guides	MS26-WP	Viewing Platform
MS26-UVS	26cm UV Gel Scoop	PP1	Single Channel Peristaltic Pump, 1-350rpm
		MSSCRNBSB	Buffer Saver Blocks, pk/2 saves 625ml of buffer
		MS26-FC	Flexicaster for gels up to 32cm. Casts 7,10,15,16,20,24 and 32cm long gels

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
	MS26-28MC-0.75	Comb 28 sample MC, 0.75mm thick	25µl		MS26-28MC-1.5	Comb 28 sample MC, 1.5mm thick	51µl
	MS26-56MCSS-0.75	Comb 56 sample MC, 0.75mm thick	10µl		MS26-56MCSS-1.5	Comb 56 sample MC, 1.5mm thick	20µl
	MS26-28MC-1	Comb 28 sample MC, 1mm thick	34µl		MS26-28MC-2	Comb 28 sample MC, 2mm thick	68µl
	MS26-56MCSS-1	Comb 56 sample MC, 1mm thick	14µl		MS26-56MCSS-2	Comb 56 sample MC, 2mm thick	27µl

MC = multichannel pipette compatible

MCSS = fits multichannel loading every second well, see page 18

The multiSUB Series horizontal electrophoresis units include a range of accessories to enhance functionality and ease of use in the lab. Further accessories are available as optional extras and all accessories can be ordered separately and all parts are available as spares.

Accessories included as standard

Negative Electrode

MODEL	CODE
MINI	MS7-NE
MIDI	MS10-NE
CHOICE	MS15-NE
MAXI	MS20-NE
SCREEN	MS26-NE

Positive Electrode

MODEL	CODE
MINI	MS7-PE
MIDI	MS10-PE
CHOICE	MS15-PE
MAXI	MS20-PE
SCREEN	MS26-PE

Buffer Tank

MODEL	CODE
MINI	MS7-TANK
MIDI	MS10-TANK
CHOICE	MS15-TANK
MAXI	MS20-TANK
SCREEN	MS26-TANK

Lid without Cables

MODEL	CODE
MINI	MS7-LID
MIDI	MS10-LID
CHOICE	MS15-LID
MAXI	MS20-LID
SCREEN	MS26-LID

Power Cables

MODEL	CODE
All Models	CSL-CAB

Red Loading Guides

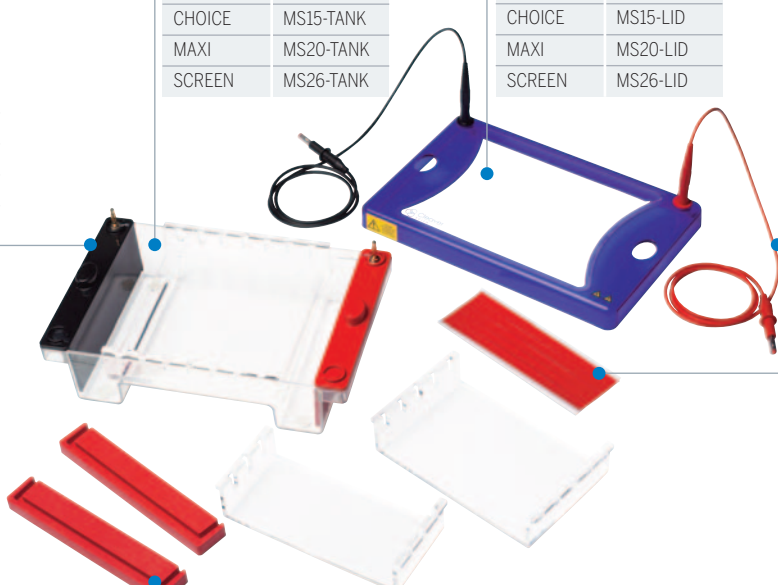
MODEL	CODE
MINI	MS7-LG
MIDI	MS10-LG
CHOICE	MS15-LG
MAXI	MS20-LG
SCREEN	MS26-LG

Rubber Casting Dams

MODEL	CODE
MINI	MS7-UV DAM
MIDI	MS10-UV DAM
CHOICE	MS15-UV DAM
MAXI	MS20-UV DAM
SCREEN	N/A

White Viewing Platform

MODEL	CODE
MINI	MS7-WP
MIDI	MS10-WP
CHOICE	MS15-WP
MAXI	MS20-WP
SCREEN	MS26-WP



Accessories available as options

UV GEL SCOOP

MODEL	CODE
MINI	MS7-UVS
MIDI	MS10-UVS
CHOICE	MS15-UVS
MAXI	MS20-UVS
SCREEN	MS26-UVS

FLEXICASTERS

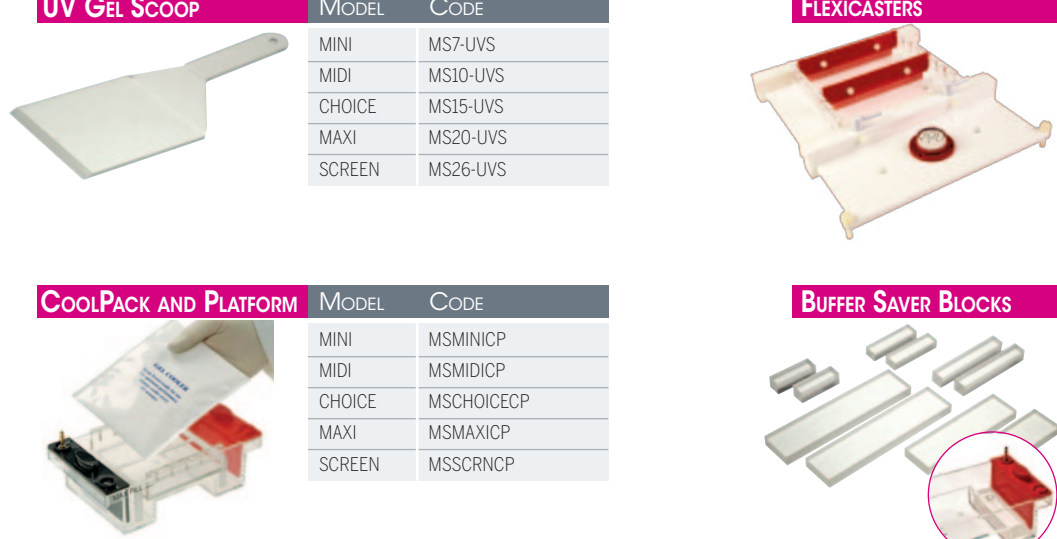
MODEL	CODE
MINI	MS7/10-FC
MIDI	MS7/10-FC
CHOICE	MS15/20-FC
MAXI	MS15/20-FC
SCREEN	MS26-FC

COOLPACK AND PLATFORM

MODEL	CODE
MINI	MSMINICP
MIDI	MSMIDICP
CHOICE	MSCHOICECP
MAXI	MSMAXICP
SCREEN	MSSCREENCP

BUFFER SAVER BLOCKS

MODEL	CODE
MINI	MSMINIBSB
MIDI	MSMIDIBSB
CHOICE	MSCHOICEBSB
MAXI	MSMAXIBSB
SCREEN	MSSCREENBSB





multisUB Comb options

multisUB Horizontal Gel Chambers can accommodate a wide variety of casting combs. Standard options are shown below, while custom combs can be manufactured on request. To select a comb, just add the desired thickness to the end of the comb code to get the complete ordering code, for example, MS7-8-1 is a 1 mm thick comb and MS7-8-1.5 is a 1.5 mm comb. Well volume shown below is for 1mm thick combs.

Colour-coded combs for the multisUB are available in 4 thicknesses,

Black – 0.75mm for tightly resolved bands

Red – 1.5mm to maximise sample volume

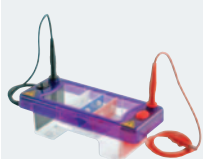
White – 1mm supplied as standard

Blue – 2mm to maximise sample volume

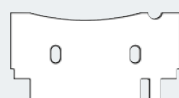
Black and white combs recommended for high resolution gels and publication quality data;

red and blue to scale-up nucleic acid volumes for preparatory techniques.

mini



See Page 12 for other well volumes



MS7-1-1, (203µl)



MS7-2-1, (90µl)



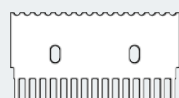
MS7-4-1, (48µl)



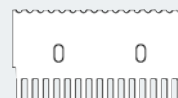
MS7-8-1, (25µl)



MS7-10-1, (18µl)

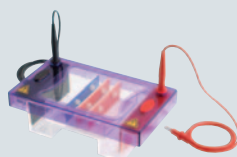


MS7-12-1, (14µl)

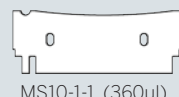


MS7-16-1, (10µl)

midi



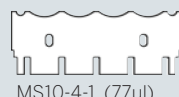
See Page 13 for other well volumes



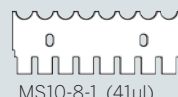
MS10-1-1, (360µl)



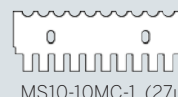
MS10-2-1, (158µl)



MS10-4-1, (77µl)



MS10-8-1, (41µl)



MS10-10MC-1, (27µl)



MS10-12-1, (23µl)



MS10-16-1, (16µl)

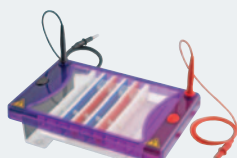


MS10-20-1, (14µl)

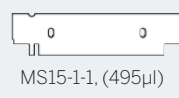


MS10-25-1, (10µl)

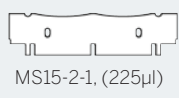
choice



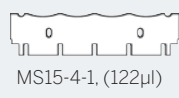
See Page 14 for other well volumes



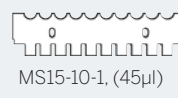
MS15-1-1, (495µl)



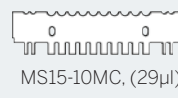
MS15-2-1, (225µl)



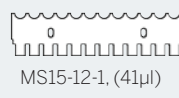
MS15-4-1, (122µl)



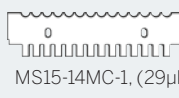
MS15-10-1, (45µl)



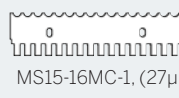
MS15-10MC, (29µl)



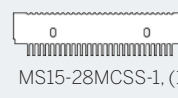
MS15-12-1, (41µl)



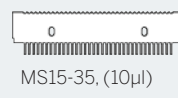
MS15-14MC-1, (29µl)



MS15-16MC-1, (27µl)

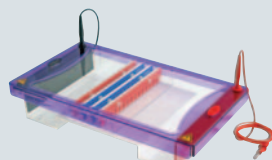


MS15-28MCSS-1, (11µl)

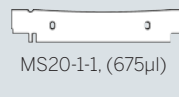


MS15-35, (10µl)

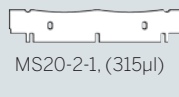
maxi



See Page 15 for other well volumes



MS20-1-1, (675µl)



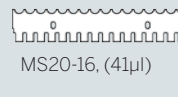
MS20-2-1, (315µl)



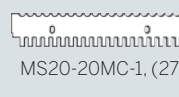
MS20-4-1, (153µl)



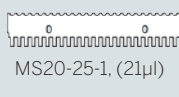
MS20-10-1, (72µl)



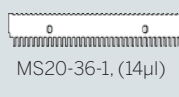
MS20-16, (41µl)



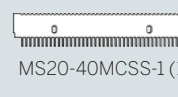
MS20-20MC-1, (27µl)



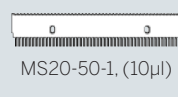
MS20-25-1, (21µl)



MS20-36-1, (14µl)

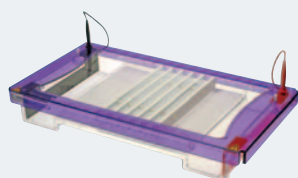


MS20-40MCSS-1, (11µl)



MS20-50-1, (10µl)

screen



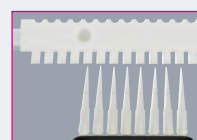
See Page 16 for other well volumes



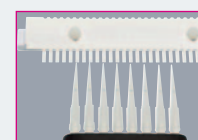
MS26-28MC, (34µl)



MS26-56MCSS, (14µl)



MC = fits multichannel pipettes



MCSS = fits multichannel loading every second well



multiSUB miniONE

19

The **multiSUB™ miniONE** electrophoresis system includes all of the equipment that you need to get up and running: gel tank, power supply and two casting sets. This gel tank/power supply combination is compact and easy to use.

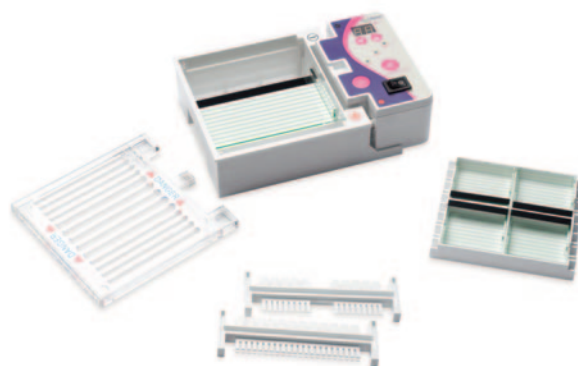
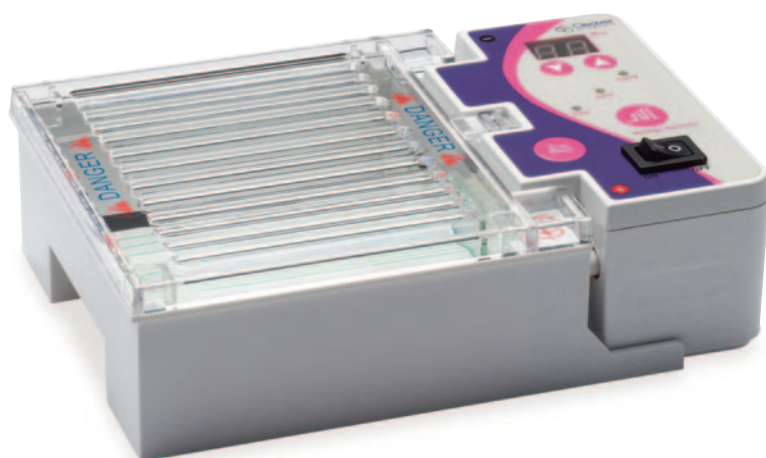
multiSUB miniONE is an all in one horizontal electrophoresis unit. Featuring a built in power supply with voltage options of 35V, 50V and 100V, the miniONE is a versatile system suitable for a wide range of applications. A built in timer for runs from 0-99 minutes means you can set up your parameters and leave the system to complete the run automatically without fear of losing bands.

The system comes complete with 2 gel casters for wide and mini gels as well as reversible combs for high throughput or high sample volume.

KEY FEATURES

miniONE electrophoresis system is ideal for personal use, small laboratories or the classroom.

- All in one horizontal electrophoresis system
- In built power supply with 35V, 50V and 100V settings
- Timer function for runs from 0 – 99 minutes
- 2 gel sizes and reversible comb options



TECHNICAL SPECIFICATIONS

Input Power	AC100-120V, 50-60Hz / AC200-240V, 50-60Hz
Output Power	DC35V / DC50V / DC100V
Gel Dimensions	Small: 54 x 60mm Large: 110 x 60mm
Volume of Tank	230ml
Construction of Bath	PC+ABS with high temperature resistance
Timer range	1-99min
Bath Dimensions	120 x 110 x 45mm



pour and cast gel



place tray in unit and cover with buffer



load samples



start the run

ORDERING INFORMATION

MSMINIONE	Includes multiSUB™ miniONE electrophoresis system with Built-in power supply, 2 x MSO-UVL, 4 x MSO-UVS, 1 x MSO-GCL, 1 x MSO-GCS, 2 x MSO-1-5/9DS, 2 x MSO-1-12/22DS	MSO-GCL MSO-GCS MSO-UVL MSO-UVS	multiSUB miniONE Gel Caster – Large multiSUB miniONE Gel Caster – Small multiSUB miniONE Large Gel Tray 110mm×60mm multiSUB miniONE Small Gel Tray 54mm×60mm
MSO-1-12/22DS	Full Length Combs for miniONE Large Gel Tray		
MSO-1-5/9DS	Double Comb for miniONE Small Gel Tray		

multiSUB Midi96

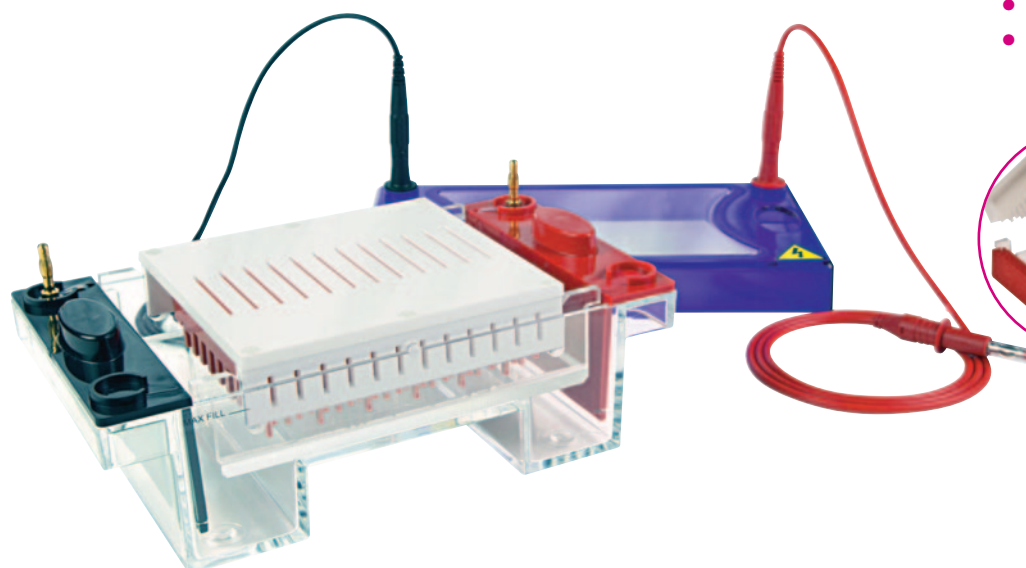
The **multiSUB™ Midi96 Gel System** allows a full 96 well plate to be loaded directly via an 8 channel pipette, making it perfect for high throughput work.

Its 10x12cm (W x L) gel dimensions and 96-well comb block format correspond to the standard microplate configuration. One or Two marker lanes and a run length of 1.8 cm for resolving DNA fragments. Multichannel pipette compatible well spacing allows fast sample loading. MSMIDI96ST Stretch Systems are also available for those users requiring an extended run length per well of up to 3.6cm, or for loading of samples from two 96-well plates - MSMIDI96STDBL.

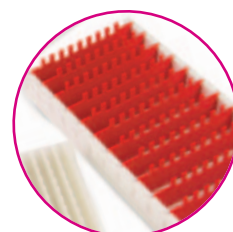
KEY FEATURES

multiSUB MIDI96 is ideal for analysis of up to 96 PCR-products loaded from 96-well microplates or thermal cycler blocks

- Ideal for high throughput electrophoresis
- Average run-time is just 15 to 30 minutes
- Direct microplate format for easy lane identification
- Multi-channel pipette compatible combs for speed loading



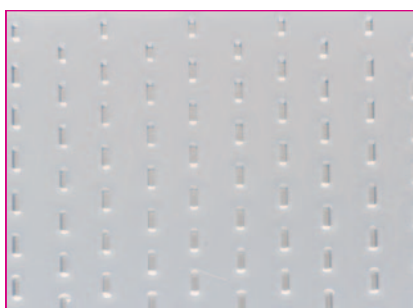
multiSUB™ Midi96
is designed for loading of DNA samples from multi-well plates



Comb blocks, available as standard and stretched options, are multichannel pipette compatible for speed loading



96 format UV tray with a cast gel



a cast gel



load using a multichannel pipette

ORDERING INFORMATION

MSMIDI96	multiSUB Midi96 , UV tray, Comb block with 12 x 8 sample, 1mm thick combs, casting dams; Run length = 1.8cm
MSMIDI961.5	multiSUB Midi96 , UV tray, Comb block with 12 x 8 sample, 1.5mm thick combs, casting dams. Combs have one marker lane; Run length = 1.8cm
MSMIDI96/2M	multiSUB Midi96 , UV tray, Comb block with 12 x 8 sample, 1mm thick combs, casting dams. Combs have two marker lanes; Run length = 1.8cm
MSMIDI96/1.5/2M	multiSUB Midi96 , UV tray, Comb block with 12 x 8 sample, 1.5mm thick combs, casting dams. Combs have two marker lanes; Run length = 1.8cm
MSMIDI96ST	multiSUB Midi96 Stretch , UV tray, Comb block with 12 x 8 sample, 1mm thick combs, casting dams; Run length = 3.6cm
MSMIDI96ST1.5	multiSUB Midi96 Stretch , UV tray, Comb block with 12 x 8 sample, 1.5mm thick combs, casting dams. Combs have one marker lane; Run length = 3.6cm
MSMIDI96ST/2M	multiSUB Midi96 Stretch , UV tray, Comb block with 12 x 8 sample, 1mm thick combs, casting dams. Combs have two marker lanes; Run length = 3.6cm
MSMIDI96ST/1.5/2M	multiSUB Midi96 Stretch , UV tray, Comb block with 12 x 8 sample, 1.5mm thick combs, casting dams. Combs have two marker lanes; Run length = 3.6cm
MSMIDI96STDBL	multiSUB Midi96 Stretch , UV tray, Comb block with 24 x 8 sample, 1mm thick combs, casting dams - Note: run length = 1.8cm.

COMB BLOCKS

MSMIDI96-8-1-CB	Midi96 Comb 8 sample MC + 1 Marker, 1mm thick	MSMIDI96ST-8-1.5-CB*	Midi96 STRETCH Comb 8 sample MC + 1 Marker, 1.5mm thick
MSMIDI96-8-1.5-CB	Midi96 Comb 8 sample MC + 1 Marker, 1.5mm thick	MSMIDI96ST-8-1.5/2M-CB*	Midi96 STRETCH Comb 8 sample MC + 2 Marker, 1mm thick
MSMIDI96-8-1/2M-CB	Midi96 Comb 8 sample MC + 2 Marker, 1mm thick	MSMIDI96ST-8-1.5/2M-CB*	Midi96 STRETCH Comb 8 sample MC + 2 Marker, 1.5mm thick
MSMIDI96-8-1.5/2M-CB	Midi96 Comb 8 sample MC + 2 Marker, 1.5mm thick	MS10-UV96	multisub Midi, 96 well tray
MSMIDI96ST-8-1-CB*	Midi96 STRETCH Comb 8 sample MC + 1 Marker, 1mm thick	MS10-UV96ST	multisub Midi STRETCH, 96 well tray

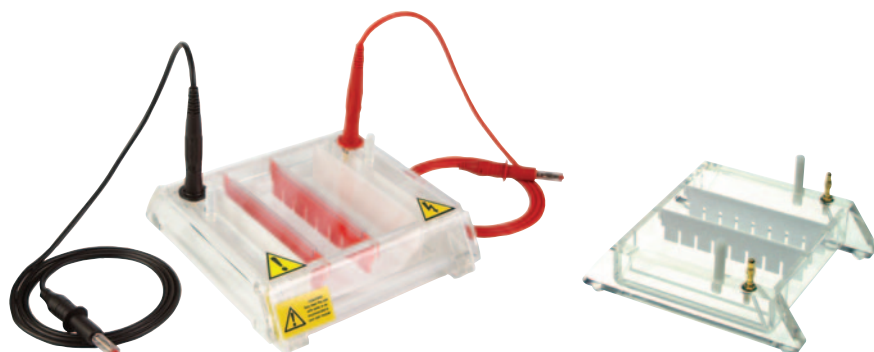
*Stretch blocks fit in the Stretch Units only



multiSUB miniRAPIDE

21

The **miniRAPIDE** makes imaging your gels simple. With its UV transparent base there is no need to handle the gel directly, perfect for teaching or space restricted labs.



KEY FEATURES

miniRAPIDE is intended for agarose gel electrophoresis

- UV Transparent for direct gel imaging
- Low buffer volumes for low cost running
- Multichannel pipette compatible combs for speed

TECHNICAL SPECIFICATIONS

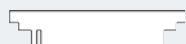
Gel dimensions,	10 x 8cm (W x L)
Unit dimensions	15 x 15 x 4cm (W x D x H)
Max. sample capacity	40 samples
Buffer volume	50ml
Combs available : No. of samples Thicknesses	1, 4, 8, 12, 16, 20 1, 1.5mm

ORDERING INFORMATION

FMMS10 miniRapid, 10 x 8cm, 2 x 8 sample combs 1.5mm and casting dams

FMMS-DAM miniRapid Casting dams, pk/2
RPW0.2 Replacement Platinum Wire 0.2mm – 50cm

Combs



FMMS-1-1, (330µl)



FMMS-4-1, (90µl)



FMMS-8-1, (40µl)



FMMS-12-1, (25µl)



FMMS-16-1, (15µl)



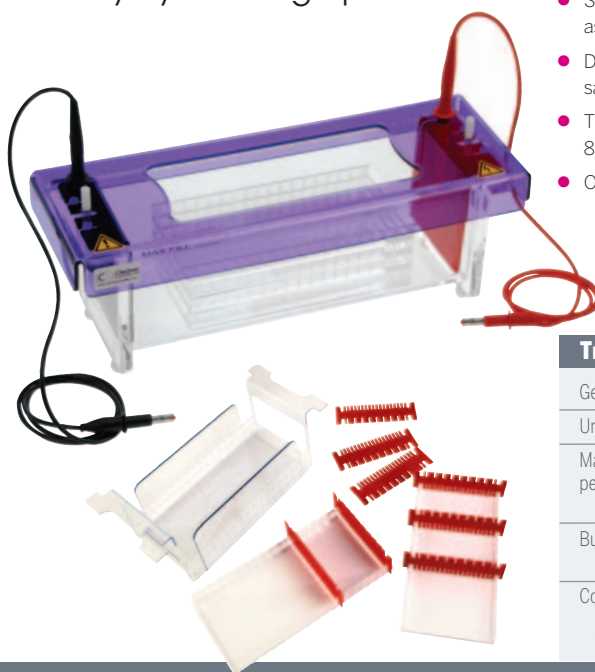
FMMS-20MC-1, (10µl)

For 1.5mm combs, replace -1 with -1.5 in the ordering code e.g. FMMS-4-1.5.

multiSUB-4

multiSUB-4 is a compact system capable of running over 1200 samples simultaneously by stacking up to 4 horizontal gels.

Each multiSUB-4 is supplied with 4 gel trays and 8 combs as standard. Two double-sided comb and three tray length formats, 8x6, 8x12 and 8x18cm are also available. These multichannel-compatible combs and gel plate configurations are compatible with microplates and thermal cycler blocks to ensure rapid loading of restriction digests and PCR products by 8-channel pipette.



KEY FEATURES

- Separates a maximum 1200 samples in as little as 15 minutes in 4 stacked gel trays
- Double-sided 1.5mm thick combs allow more sample volume to be loaded into each well
- Three gel tray options available in 8x6, 8x12 and 8x18cm (WxL) sizes for maximum flexibility
- Optional Flexicaster

TECHNICAL SPECIFICATIONS

Gel dimensions (w x l)	8 x 6cm, 8 x 12cm, 8 x 18cm
Unit dimensions	11 x 35 x 16cm
Max. sample capacity per 18cm tray	with 1cm run length: 306 with 2cm run length: 144 with 3cm run length: 72
Buffer volume	200, 400, 600 or 800ml (for 1, 2, 3 or 4 gel trays resp.)
Combs available: No. of samples Thicknesses	1, 8, 12, 18 DuoCombs 1, 1.5mm

ORDERING INFORMATION

CSL-MULTISUB4 multiSUB-4 multi-level Gel Chamber, includes 4x 18cm UV Trays, 8x 18/8 Sample 1.5mm Combs (Tape UV Trays to seal)

CSL-MULTISUB4EXCAS Multisub-4, as above but with External Caster for 4 gels

MSUB4-12/1-1 12/1 Sample 1mm Combs for multiSUB-4

MSUB4UV6 multiSUB-4 tray 8 x 6cm

MSUB4-18/8-1 18/8 Sample 1mm Combs for multiSUB-4

MSUB4UV12 multiSUB-4 tray 8 x 12cm

MSUB4-12/1-1.5 12/1 Sample 1.5mm Combs for multiSUB-4

MSUB4UV18 multiSUB-4 tray 8 x 18cm

MSUB4-18/8-1.5 18/8 Sample 1.5mm Combs for multiSUB-4