

# multisub

SETTING A NEW STANDARD  
IN HORIZONTAL ELECTROPHORESIS

**INJECTION MOULDED CONSTRUCTION** - durable, leak-proof environment for complete safety and long life



**CASSETTE TYPE ELECTRODES** - inexpensive, easy to replace. Made of 99.99% corrosion resistant, pure platinum

**ELECTRICAL SAFETY** - lid can be located in one way only. On removal, power is disconnected from buffer chamber

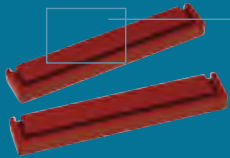
**MULTIPLE GEL TRAYS** - eliminate the need for additional gel tanks

**UNIQUE GEL COOLING SYSTEM**

**EASY CLICK LID REMOVAL**



## "plug and go" gel casting



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



## flexicasters

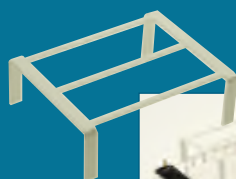


NEW-style Flexicasters allow the casting of gels of varying length simply by locking the moveable dam. Adjustable feet and level bubble allow gels of uniform thickness to be poured.



These comb/guides combine the convenience of a regular comb with an appropriate guide (same teeth number and width) for loading samples, simply flip over.

## combi-comb/loading guides



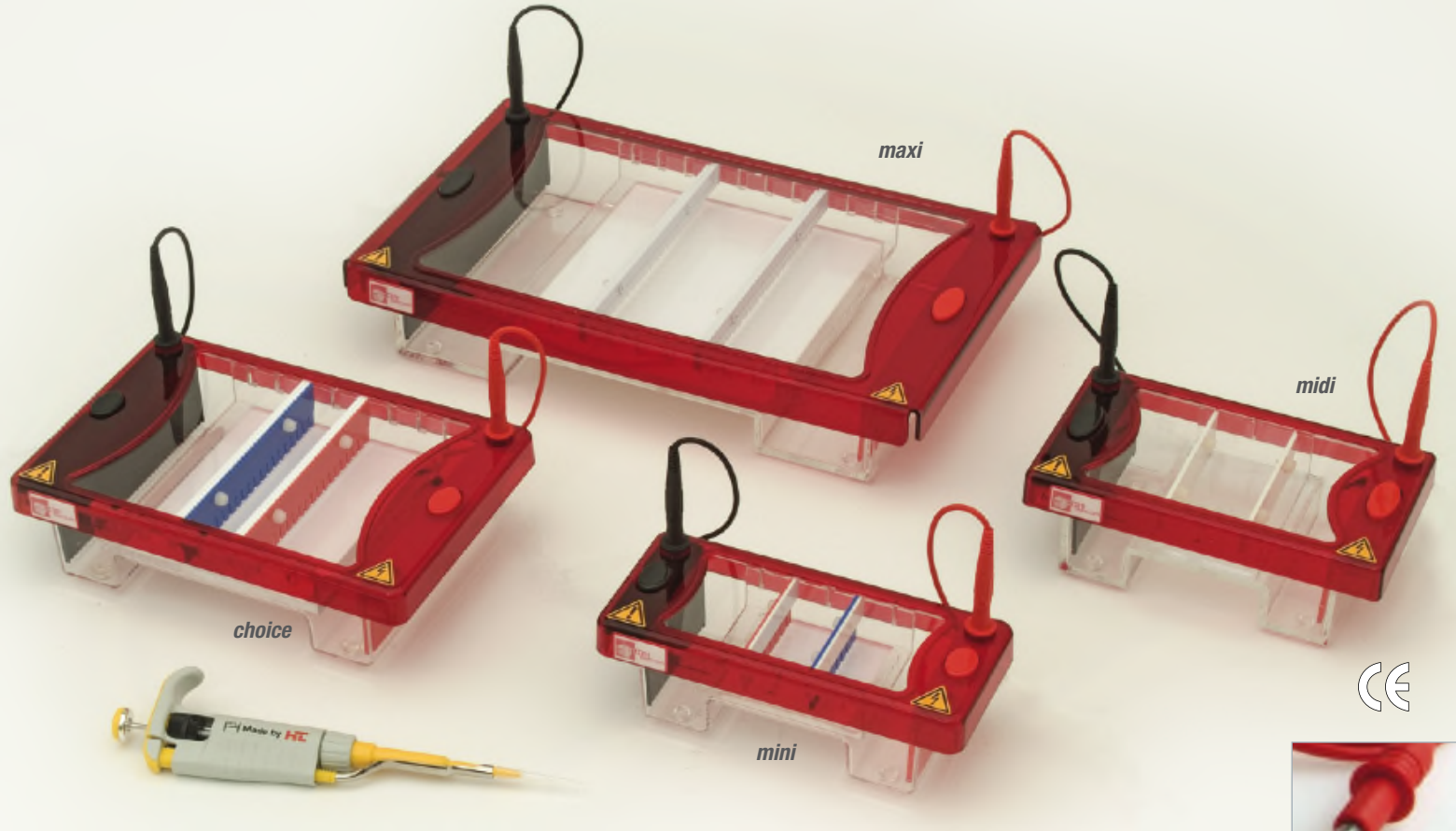
## unique gel cooling system



Removable gel table allows a CoolPack to sit in buffer above the gel, to provide enhanced gel resolution and faster run time



All units are CE marked and are in conformity with the relevant CE Safety Directives:  
73/23/EEC: LOW VOLTAGE DIRECTIVE: IEC 61010-1:2001, EN 61010-1:2001;  
89/336/EEC EMC DIRECTIVE: EN55011 Emissions, EN50082-1 Immunity.



Retractable connectors compatible with most major power supplies

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

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

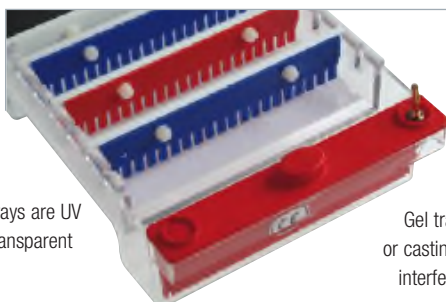
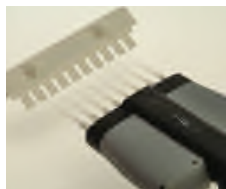


## combs

- 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

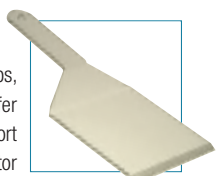
The number of samples can be maximised using high tooth number combs



Trays are UV transparent

White PVC platform cover and red loading guides can be optionally applied to enhance well visibility

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



UV transparent Gel Scoops, available for each unit size, offer a safe and easy way to transport gels to a UV Transilluminator

SETTING A NEW STANDARD IN HORIZONTAL ELECTROPHORESIS

# multiSUB

- AVAILABLE WITH 7 x 7CM, 7 x 10CM OR WITH BOTH GEL TRAYS
- ECONOMIC LOW GEL AND BUFFER VOLUMES
- SMALL LAB BENCH FOOTPRINT

## Technical Specifications

GEL DIMENSIONS, (W x L)	7 x 7cm 7 x 10cm
UNIT DIMENSIONS	21 x 9 x 9cm (W x D x H)
MAX. SAMPLE CAPACITY	7 x 7cm TRAY – 32 SAMPLES 7 x 10cm TRAY – 64 SAMPLES
BUFFER VOLUME	225ML
COMBS AVAILABLE : NO. OF SAMPLES THICKNESSES	1, 2, 4, 8MC, 8, 10, 12MC, 16 0.75, 1, 1.5, 2mm

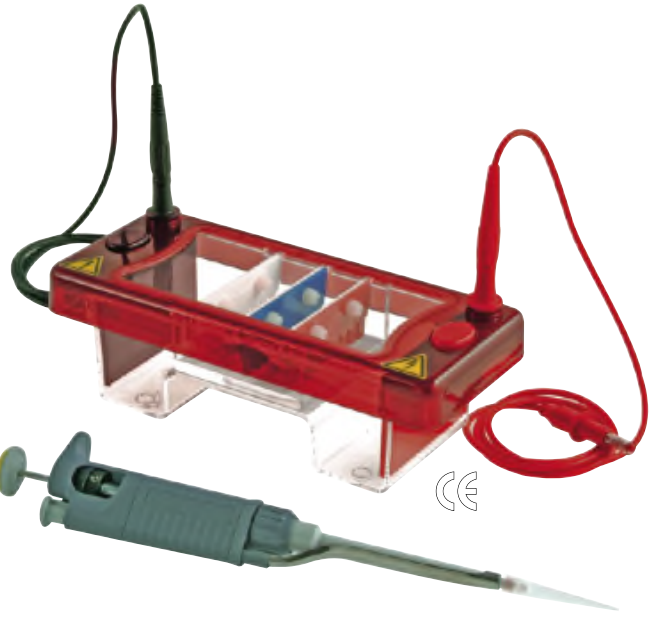
## Typical Applications

Designed for quick checks of low to medium numbers of samples

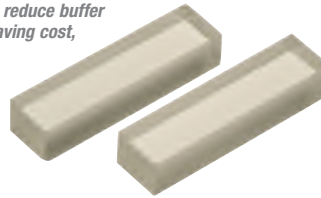
## MINI

**multiSUB Mini is designed for low to medium numbers of samples.**

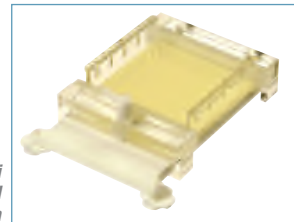
The small gel size maximises run economy but does not compromise versatility as two tray options are available – 7 x 7cm and 7 x 10cm, and combs ranging from preparative up to 16 samples. Simply by altering the gel tray or comb, this compact unit is capable of resolving up to 64 different samples, prepping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



*Buffer saver blocks physically reduce the volume of a gel chamber and so reduce buffer requirements, saving cost, see page 10*



*Flexicaster Mini/Midi allows casting of gel lengths up to 10cm*



components of multiSUB Mini Duo

## ORDERING INFORMATION

BCMSMINI7	<b>multiSUB Mini</b> , 7 x 7cm UV Tray, 2 x 8 sample combs, loading guides and dams				
BCMSMINI10	<b>multiSUB Mini</b> , 7 x 10cm UV Tray, 2 x 8 sample combs, loading guides and dams				
BCMSMINIDUO	<b>multiSUB Mini</b> , 7 x 7cm & 7 x 10cm UV Tray, 2 x 8 sample combs, loading guides and dams				
MS7-UV7	7 x 7cm UV Tray	MS7-LG	Adhesive Loading Guides	MSMINIBSB	Buffer Saver Blocks, pk/2, saves 100ml of buffer
MS7-UV10	7 x 10cm UV Tray	MS7-WP	Viewing Platform	MS7-x -yLG	Combination Comb and Loading Guide
MS7-PE	Positive Electrode	MS7-UVS	7cm UV Gel Scoop		x = comb well number, y = comb thickness
MS7-NE	Negative Electrode	MSMINICP	Cool-pack and Platform	MS7/10-FC	multiSUB Mini/Midi Flexi caster
MS7-UVDAM	Casting Dams				

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
Black	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
	MS7-8MC-0.75	Comb 8 sample MC, 0.75mm thick	8µl
	MS7-8-0.75	Comb 8 sample, 0.75mm thick	19µl
	MS7-10-0.75	Comb 10 sample, 0.75mm thick	14µl
	MS7-12MC-0.75	Comb 12 sample MC, 0.75mm thick	10µl
MS7-16-0.75	Comb 16 sample, 0.75mm thick	7µl	
White	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
	MS7-8MC-1	Comb 8 sample MC, 1mm thick	11µl
	MS7-8-1	Comb 8 sample, 1mm thick	25µl
	MS7-10-1	Comb 10 sample, 1mm thick	18µl
	MS7-12MC-1	Comb 12 sample MC, 1mm thick	14µl
MS7-16-1	Comb 16 sample, 1mm thick	10µl	

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
Red	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
	MS7-8MC-1.5	Comb 8 sample MC, 1.5mm thick	17µl
	MS7-8-1.5	Comb 8 sample, 1.5mm thick	37µl
	MS7-10-1.5	Comb 10 sample, 1.5mm thick	27µl
	MS7-12MC-1.5	Comb 12 sample MC, 1.5mm thick	20µl
MS7-16-1.5	Comb 16 sample, 1.5mm thick	15µl	
Blue	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
	MS7-8MC-2	Comb 8 sample MC, 2mm thick	23µl
	MS7-8-2	Comb 8 sample, 2mm thick	50µl
	MS7-10-2	Comb 10 sample, 2mm thick	36µl
	MS7-12MC-2	Comb 12 sample MC, 2mm thick	27µl
MS7-16-2	Comb 16 sample, 2mm thick	20µl	

# MIDI

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 the 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.



Adhesive loading guides allow easy well identification and sample loading



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



for Power Supplies and Product Selector see pages 24-25



Combi-comb/guides offer the convenience of a regular comb with a loading guide (same teeth number and width), simply by flipping over

- 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

### Technical Specifications

GEL DIMENSIONS, (W x L)	10 x 7CM 10 x 10CM
UNIT DIMENSIONS	22 x 12.5 x 9CM (W x D x H)
MAX. SAMPLE CAPACITY	10 x 7CM TRAY – 50 SAMPLES 10 x 10CM TRAY – 100 SAMPLES
BUFFER VOLUME	300ML
COMBS AVAILABLE : NO. OF SAMPLES	1, 2, 4, 8, 10MC, 12, 16, 20MC, 25
THICKNESSES	0.75, 1, 1.5, 2MM

### Typical Applications

Ideal for quick checks of samples from PCR and cloning

### ORDERING INFORMATION

BCMSMIDI7	multiSUB Midi, 10 x 7cm UV Tray, 2 x 16 sample combs, loading guides and dams				
BCMSMIDI10	multiSUB Midi, 10 x 10cm UV Tray, 2 x 16 sample combs, loading guides and dams				
BCMSMIDIUO	multiSUB Midi, 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	MSMIDI7	Buffer Saver Blocks, pk/2, saves 100ml of buffer
MS10-UV10	10 x 10cm UV Tray	MS10-WP	Viewing Platform	MS10-x -yLG	Combination Comb and Loading Guide x = comb well number, y = comb thickness
MS10-PE	Positive Electrode	MS10-UVS	10cm UV Gel Scoop		
MS10-NE	Negative Electrode	MS7/10-FC	multiSUB Mini/Midi Flexicaster		
MS10-UVDAM	Casting Dams	MSMIDICP	Cool-Pack and Platform		

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
Black	MS10-1-0.75	Comb Prep 1, Marker 1, 0.75mm thick	270µl
	MS10-2-0.75	Comb Prep 2, Marker 2, 0.75mm thick	118µl
	MS10-4-0.75	Comb Prep 4, Marker 2, 0.75mm thick	57µl
	MS10-8-0.75	Comb 8 sample, 0.75mm thick	30µl
	MS10-10MC-0.75	Comb 10 sample MC, 0.75mm thick	20µl
	MS10-12-0.75	Comb 12 sample, 0.75mm thick	17µl
	MS10-16-0.75	Comb 16 sample, 0.75mm thick	12µl
	MS10-20MC-0.75	Comb 20 sample MC, 0.75mm thick	10µl
	MS10-25-0.75	Comb 25 sample, 0.75mm thick	7µl
	White	MS10-1-1	Comb Prep 1, Marker 1, 1mm thick
MS10-2-1		Comb Prep 2, Marker 2, 1mm thick	158µl
MS10-4-1		Comb Prep 4, Marker 2, 1mm thick	77µl
MS10-8-1		Comb 8 sample, 1mm thick	41µl
MS10-10MC-1		Comb 10 sample MC, 1mm thick	27µl
MS10-12-1		Comb 12 sample, 1mm thick	23µl
MS10-16-1		Comb 16 sample, 1mm thick	16µl
MS10-20MC-1		Comb 20 sample MC, 1mm thick	14µl
MS10-25-1		Comb 25 sample, 1mm thick	10µl

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
Red	MS10-1-1.5	Comb Prep 1, Marker 1, 1.5mm thick	540µl
	MS10-2-1.5	Comb Prep 2, Marker 2, 1.5mm thick	236µl
	MS10-4-1.5	Comb Prep 4, Marker 2, 1.5mm thick	115µl
	MS10-8-1.5	Comb 8 sample, 1.5mm thick	61µl
	MS10-10MC-1.5	Comb 10 sample MC, 1.5mm thick	41µl
	MS10-12-1.5	Comb 12 sample, 1.5mm thick	34µl
	MS10-16-1.5	Comb 16 sample, 1.5mm thick	24µl
	MS10-20MC-1.5	Comb 20 sample MC, 1.5mm thick	20µl
	MS10-25-1.5	Comb 25 sample, 1.5mm thick	15µl
	Blue	MS10-1-2	Comb Prep 1, Marker 1, 2mm thick
MS10-2-2		Comb Prep 2, Marker 2, 2mm thick	315µl
MS10-4-2		Comb Prep 4, Marker 2, 2mm thick	153µl
MS10-8-2		Comb 8 sample, 2mm thick	81µl
MS10-10MC-2		Comb 10 sample, 2mm thick	54µl
MS10-12-2		Comb 12 sample, 2mm thick	45µl
MS10-16-2		Comb 16 sample, 2mm thick	32µl
MS10-20MC-2		Comb 20 sample MC, 2mm thick	27µl
MS10-25-2		Comb 25 sample, 2mm thick	20µl

MC = multichannel pipette compatible

# multiSUB

- THREE TRAY OPTIONS
- RUN UP TO 210 SAMPLES
- LOW BUFFER VOLUMES
- MULTICHANNEL PIPETTE COMPATIBLE COMBS FOR SPEED LOADING

## Technical Specifications

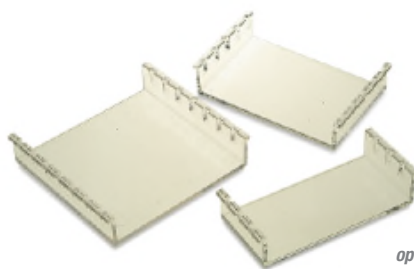
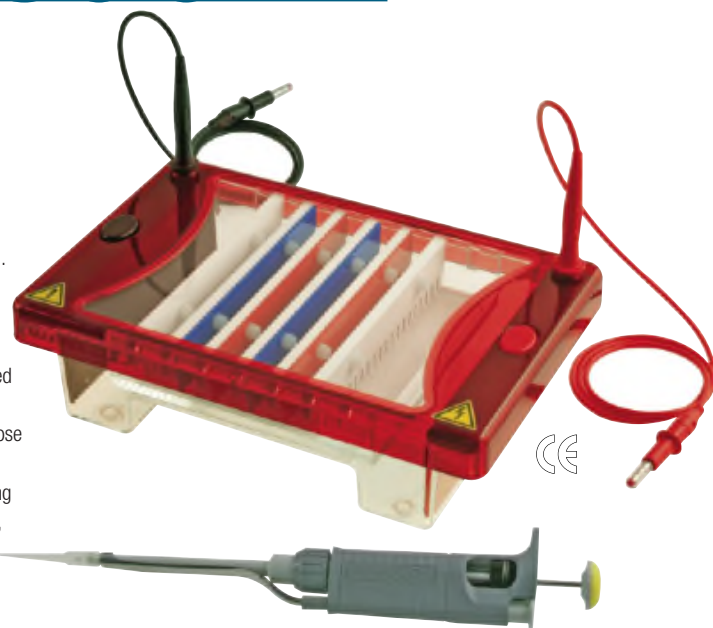
GEL DIMENSIONS, (W x L)	15 x 7cm 15 x 10cm 15 x 15cm
UNIT DIMENSIONS	26.5 x 17.5 x 9cm (W x D x H)
MAX. SAMPLE CAPACITY	15 x 7cm TRAY – 70 SAMPLES 15 x 10cm TRAY – 140 SAMPLES 15 x 15cm TRAY – 210 SAMPLES
BUFFER VOLUME	500ML
COMBS AVAILABLE : No. OF SAMPLES	1, 2, 4, 10, 10MC, 12, 14MC, 16, 18MC, 20, 28MC, 30MC, 35
THICKNESSES	0.75, 1, 1.5, 2mm

## Typical Applications

Ideal for restriction fragment analysis, sample prep or checking of high numbers of samples

## CHOICE

**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. Further purchases of additional accessories are no longer required. 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, 18, 28 and 30 sample multi-channel pipette compatible combs.



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



*Low cost gel documentation system, see page 27*

## ORDERING INFORMATION

**BCMSCHOICE7 multiSUB Choice**, 15 x 7cm UV Tray, 2 x 20 sample combs, loading guides and dams

**BCMSCHOICE10 multiSUB Choice**, 15 x 10cm UV Tray, 2 x 20 sample combs, loading guides and dams

**BCMSCHOICE15 multiSUB Choice**, 15 x 15cm UV Tray, 2 x 20 sample combs, loading guides and dams

**BCMSCHOICETR multiSUB Choice Trio**, 15 x 7, 10 & 15cm UV Tray, 2 x 20 sample combs, loading guides and dams

MS15-UV7	15 x 7cm UV Tray	MS15-NE	Negative Electrode	MSCHOICEBSB	Buffer Saver Blocks pk/2, saves 190ml of buffer
MS15-UV10	15 x 10cm UV Tray	MS15-LG	Adhesive Loading Guides	MS15-x -yLG	Combination Comb and Loading Guide x = comb well number, y = comb thickness
MS15-UV15	15 x 15cm UV Tray	MS15-WP	Viewing Platform	MS15/20-FC	multiSUB Choice/Maxi Flexi caster
MS15-UVDAM	Casting Dams	MS15-UVS	15cm UV Gel Scoop		
MS15-PE	Positive Electrode	MSCHOICECP	Cool-Pack and Platform		

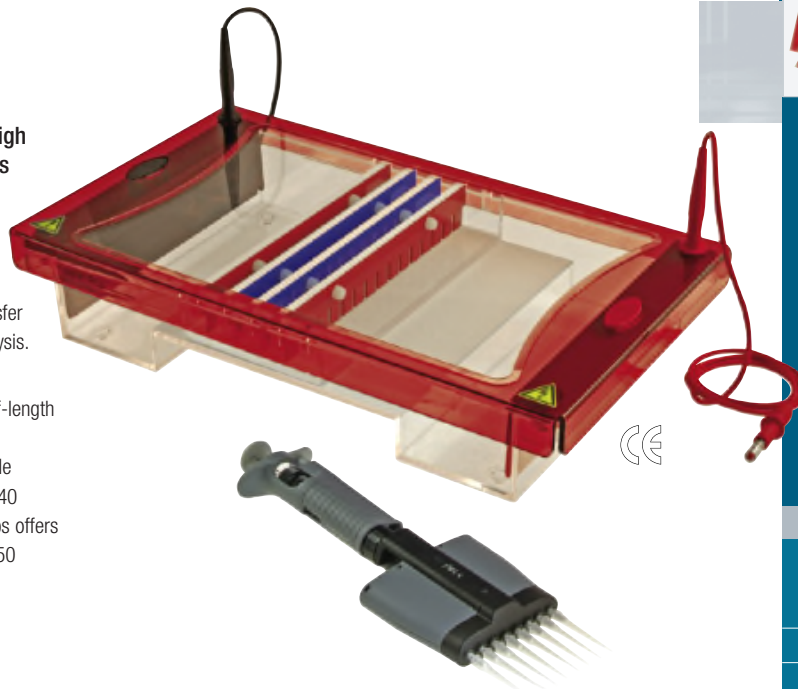
Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	
Black	MS15-1-0.75	Comb Prep 1, Marker 1, 0.75mm thick	371µl	
	MS15-2-0.75	Comb Prep 2, Marker 2, 0.75mm thick	169µl	
	MS15-4-0.75	Comb Prep 4, Marker 2, 0.75mm thick	91µl	
	MS15-10-0.75	Comb 10 sample, 0.75mm thick	34µl	
	MS15-12-0.75	Comb 12 sample, 0.75mm thick	30µl	
	MS15-16-0.75	Comb 16 sample, 0.75mm thick	20µl	
	MS15-20-0.75	Comb 20 sample, 0.75mm thick	16µl	
	MS15-10MC-0.75	Comb 10 sample MC, 0.75mm thick	22µl	
	MS15-14MC-0.75	Comb 14 sample MC, 0.75mm thick	22µl	
	MS15-18MC-0.75	Comb 18 sample MC, 0.75mm thick	8µl	
	MS15-28MC-0.75	Comb 28 sample MC, 0.75mm thick	8µl	
	MS15-30MC-0.75	Comb 30 sample MC, 0.75mm thick	9µl	
	MS15-35-0.75	Comb 35 sample, 0.75mm thick	7µl	
	White	MS15-1-1	Comb Prep 1, Marker 1, 1mm thick	495µl
		MS15-2-1	Comb Prep 2, Marker 2, 1mm thick	225µl
MS15-4-1		Comb Prep 4, Marker 2, 1mm thick	122µl	
MS15-10-1		Comb 10 sample, 1mm thick	45µl	
MS15-12-1		Comb 12 sample, 1mm thick	41µl	
MS15-16-1		Comb 16 sample, 1mm thick	27µl	
MS15-20-1		Comb 20 sample, 1mm thick	21µl	
MS15-10MC-1		Comb 10 sample MC, 1mm thick	29µl	
MS15-14MC-1		Comb 14 sample MC, 1mm thick	29µl	
MS15-18MC-1		Comb 18 sample MC, 1mm thick	11µl	
MS15-28MC-1		Comb 28 sample MC, 1mm thick	11µl	
MS15-30MC-1		Comb 30 sample MC, 1mm thick	13µl	
MS15-35-1		Comb 35 sample, 1mm thick	10µl	

Colour	Code	Description	SAMPLE VOLUME FOR A 5MM THICK GEL	
Red	MS15-1-1.5	Comb Prep 1, Marker 1, 1.5mm thick	743µl	
	MS15-2-1.5	Comb Prep 2, Marker 2, 1.5mm thick	338µl	
	MS15-4-1.5	Comb Prep 4, Marker 2, 1.5mm thick	182µl	
	MS15-10-1.5	Comb 10 sample, 1.5mm thick	68µl	
	MS15-12-1.5	Comb 12 sample, 1.5mm thick	61µl	
	MS15-16-1.5	Comb 16 sample, 1.5mm thick	41µl	
	MS15-20-1.5	Comb 20 sample, 1.5mm thick	32µl	
	MS15-10MC-1.5	Comb 10 sample MC, 1.5mm thick	44µl	
	MS15-14MC-1.5	Comb 14 sample MC, 1.5mm thick	44µl	
	MS15-18MC-1.5	Comb 18 sample MC, 1.5mm thick	17µl	
	MS15-28MC-1.5	Comb 28 sample MC, 1.5mm thick	17µl	
	MS15-30MC-1.5	Comb 30 sample MC, 1.5mm thick	19µl	
	MS15-35-1.5	Comb 35 sample, 1.5mm thick	15µl	
	Blue	MS15-1-2	Comb Prep 1, Marker 1, 2mm thick	990µl
		MS15-2-2	Comb Prep 2, Marker 2, 2mm thick	450µl
MS15-4-2		Comb Prep 4, Marker 2, 2mm thick	243µl	
MS15-10-2		Comb 10 sample, 2mm thick	90µl	
MS15-12-2		Comb 12 sample, 2mm thick	81µl	
MS15-16-2		Comb 16 sample, 2mm thick	54µl	
MS15-20-2		Comb 20 sample, 2mm thick	43µl	
MS15-10MC-2		Comb 10 sample MC, 2mm thick	59µl	
MS15-14MC-2		Comb 14 sample MC, 2mm thick	59µl	
MS15-18MC-2		Comb 18 sample MC, 2mm thick	23µl	
MS15-28MC-2		Comb 28 sample MC, 2mm thick	23µl	
MS15-30MC-2		Comb 30 sample MC, 2mm thick	25µl	
MS15-35-2		Comb 35 sample, 2mm thick	20µl	

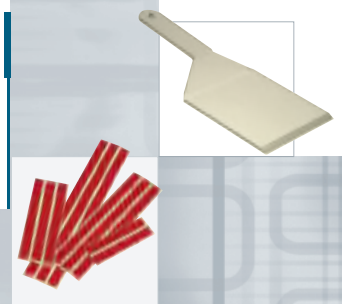
MAXI

**multiSUB Maxi** is primarily designed for resolution of high numbers of samples such as from Cloning or PCR. It also allows ultra high-resolution separations over extended runs. Tray sizes correspond to standard blotter sizes for easy sample transfer onto a membrane for further analysis.

Three tray sizes are available – 20 x 20cm, 20 x 25cm and a half-length 20 x 10cm. Multichannel pipette compatible combs up to 40 sample facilitate speed loading of up to 440 samples per gel. 50 sample combs offer a maximum sample capacity of 550 samples per gel.



*the NEW Flexicaster Maxi allows casting of gel lengths up to 20cm, simply by locking the moveable dam. Adjustable feet and supplied bubble allow gels of uniform thickness to be poured*



- AVAILABLE WITH 20 x 25CM, 20 x 20CM OR 20 x 10CM GEL TRAYS
- RUN UP TO 550 SAMPLES
- LOW BUFFER VOLUMES
- IDEAL FOR EXTENDED SEPARATIONS

### Technical Specifications

GEL DIMENSIONS, (W x L)	20 x 10CM 20 x 20CM 20 x 25CM
UNIT DIMENSIONS	39.5 x 23 x 9CM (W x D x H)
MAX. SAMPLE CAPACITY	20 x 10CM TRAY – 200 SAMPLES 20 x 20CM TRAY – 450 SAMPLES 20 x 25CM TRAY – 550 SAMPLES
BUFFER VOLUME	1200ML
COMBS AVAILABLE : NO. OF SAMPLES	1, 2, 4, 10, 16, 20MC, 25, 30, 36, 40MC, 50
THICKNESSES	0.75, 1, 1.5, 2MM

### Typical Applications

Primarily designed for separating high numbers of samples from PCR or cloning

### ORDERING INFORMATION

**BCMSMAXI20 multiSUB Maxi**, 20 x 20cm UV Tray, 2 x 20 sample combs, loading guides and dams

**BCMSMAXI10 multiSUB Maxi**, 20 x 10cm UV Tray, 2 x 20 sample combs, loading guides and dams

**BCMSMAXI25 multiSUB Maxi**, 20 x 25cm UV Tray, 2 x 20 sample combs, loading guides and dams

**BCMSMAXIDUO multiSUB Maxi**, 20 x 10 & 20 x 20cm UV Tray, 2 x 20 sample combs, loading guides and dams

MS20-UV10	20 x 10cm UV Tray	MS20-WP	Viewing Platform	MSMAXIBSB	Buffer Saver Blocks pk/2, saves 450ml of buffer
MS20-UV20	20 x 20cm UV Tray	MS20-PE	Positive Electrode	MS20-x -yLG	Combination Comb and Loading Guide x = comb well number, y = comb thickness
MS20-UV25	20 x 25cm UV Tray	MS20-NE	Negative Electrode	MS15/20-FC	multiSUB Choice/Maxi Flexi caster
MS20-UVDAM	Casting Dams	MS20-UVS	20cm UV Gel Scoop		
MS20-LG	Adhesive Loading Guides	MSMAXICP	Cool-Pack and Platform		

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	
Black	MS20-1-0.75	Comb Prep 1, Marker 1, 0.75mm thick	506µl	
	MS20-2-0.75	Comb Prep 2, Marker 2, 0.75mm thick	236µl	
	MS20-4-0.75	Comb Prep 4, Marker 2, 0.75mm thick	115µl	
	MS20-10-0.75	Comb 10 sample, 0.75mm thick	54µl	
	MS20-16-0.75	Comb 16 sample, 0.75mm thick	30µl	
	MS20-20MC-0.75	Comb 20 sample MC, 0.75mm thick	20µl	
	MS20-25-0.75	Comb 25 sample, 0.75mm thick	16µl	
	MS20-30-0.75	Comb 30 sample, 0.75mm thick	13µl	
	MS20-36-0.75	Comb 36 sample, 0.75mm thick	11µl	
	MS20-40MC-0.75	Comb 40 sample MC, 0.75mm thick	8µl	
	MS20-50-0.75	Comb 50 sample, 0.75mm thick	8µl	
	White	MS20-1-1	Comb Prep 1, Marker 1, 1mm thick	675µl
		MS20-2-1	Comb Prep 2, Marker 2, 1mm thick	315µl
MS20-4-1		Comb Prep 4, Marker 2, 1mm thick	153µl	
MS20-10-1		Comb 10 sample, 1mm thick	72µl	
MS20-16-1		Comb 16 sample, 1mm thick	41µl	
MS20-20MC-1		Comb 20 sample MC, 1mm thick	27µl	
MS20-25-1		Comb 25 sample, 1mm thick	21µl	
MS20-30-1		Comb 30 sample, 1mm thick	17µl	
MS20-36-1		Comb 36 sample, 1mm thick	14µl	
MS20-40MC-1		Comb 40 sample MC, 1mm thick	11µl	
MS20-50-1		Comb 50 sample, 1mm thick	10µl	

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL	
Red	MS20-1-1.5	Comb Prep 1, Marker 1, 1.5mm thick	1013µl	
	MS20-2-1.5	Comb Prep 2, Marker 2, 1.5mm thick	473µl	
	MS20-4-1.5	Comb Prep 4, Marker 2, 1.5mm thick	230µl	
	MS20-10-1.5	Comb 10 sample, 1.5mm thick	108µl	
	MS20-16-1.5	Comb 16 sample, 1.5mm thick	61µl	
	MS20-20MC-1.5	Comb 20 sample MC, 1.5mm thick	41µl	
	MS20-25-1.5	Comb 25 sample, 1.5mm thick	32µl	
	MS20-30-1.5	Comb 30 sample, 1.5mm thick	26µl	
	MS20-36-1.5	Comb 36 sample, 1.5mm thick	22µl	
	MS20-40MC-1.5	Comb 40 sample MC, 1.5mm thick	17µl	
	MS20-50-1.5	Comb 50 sample, 1.5mm thick	16µl	
	Blue	MS20-1-2	Comb Prep 1, Marker 1, 2mm thick	1350µl
		MS20-2-2	Comb Prep 2, Marker 2, 2mm thick	630µl
MS20-4-2		Comb Prep 4, Marker 2, 2mm thick	306µl	
MS20-10-2		Comb 10 sample, 2mm thick	144µl	
MS20-16-2		Comb 16 sample, 2mm thick	81µl	
MS20-20MC-2		Comb 20 sample MC, 2mm thick	54µl	
MS20-25-2		Comb 25 sample, 2mm thick	42µl	
MS20-30-2		Comb 30 sample, 2mm thick	34µl	
MS20-36-2		Comb 36 sample, 2mm thick	29µl	
MS20-40MC-2		Comb 40 sample MC, 2mm thick	23µl	
MS20-50-2		Comb 50 sample, 2mm thick	21µl	

MC = multichannel pipette compatible

# multiSUB

## SCREEN

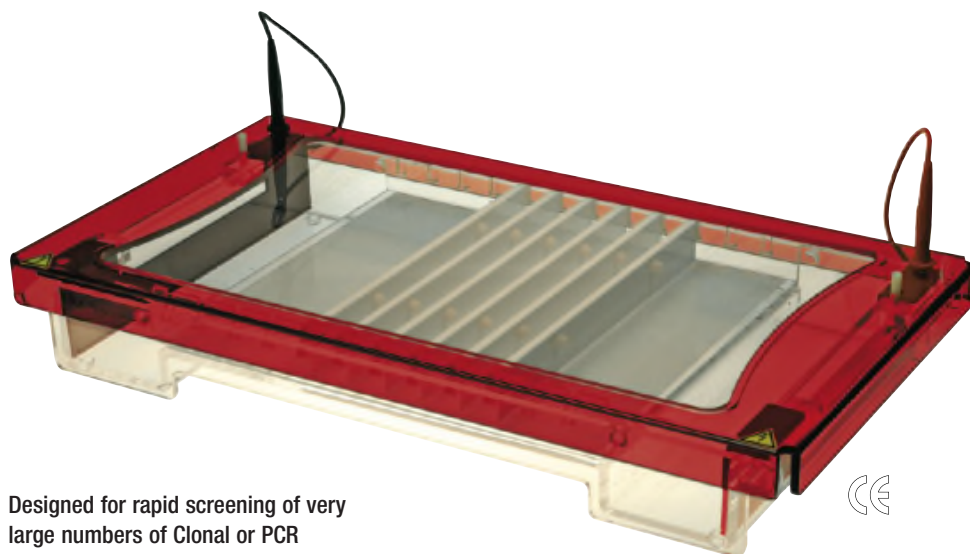
- AVAILABLE WITH 26 x 16, 26 x 24 AND 26 x 32CM OR ALL THREE GEL TRAYS
- RUN UP TO 672 SAMPLES
- LOW BUFFER VOLUMES
- MULTICHANNEL PIPETTE COMPATIBLE COMBS FOR SPEED LOADING

### Technical Specifications

GEL DIMENSIONS, (W x L)	26 x 32cm 26 x 24cm 26 x 16cm
UNIT DIMENSIONS	50 x 28 x 9cm (W x D x H)
MAX. SAMPLE CAPACITY	26 x 32cm TRAY – 672 SAMPLES 26 x 24cm TRAY – 504 SAMPLES 26 x 16cm TRAY – 336 SAMPLES
BUFFER VOLUME	1400ML
COMBS AVAILABLE :	
No. OF SAMPLES	28MC, 56MC
THICKNESSES	0.75, 1, 1.5, 2mm

### Typical Applications

Ideal for checking very large numbers of samples or extended high resolution separations



Designed for rapid screening of very large numbers of Clonal or PCR samples, multiSUB Screen horizontal gel unit has a 672 maximum sample capacity 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.

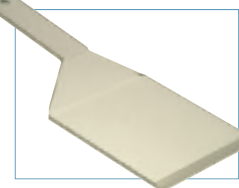
The unit is available with a full length tray or with other tray length options of 16 or 24cm so that the user's exact requirements can be matched. In addition to options for single length gel trays, multiSUB Screen is available with all three gel tray lengths to provide the maximum in flexibility, versatility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

Buffer recirculation ports are included as standard to allow enhanced resolution over extended runs while loading guides enhance well visibility for easy sample loading.

for Power Supplies and Product Selector see pages 24-25



Scoops for safe transfer of gels



### ORDERING INFORMATION

BCMSSCRN32 multiSUB Screen, 26 x 32cm UV Tray, 6 x 28 sample combs, loading guides

BCMSSCRN24 multiSUB Screen, 26 x 24cm UV Tray, 6 x 28 sample combs, loading guides

BCMSSCRN16 multiSUB Screen, 26 x 16cm UV Tray, 6 x 28 sample combs, loading guides

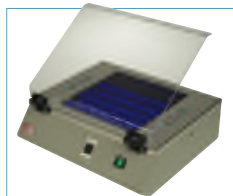
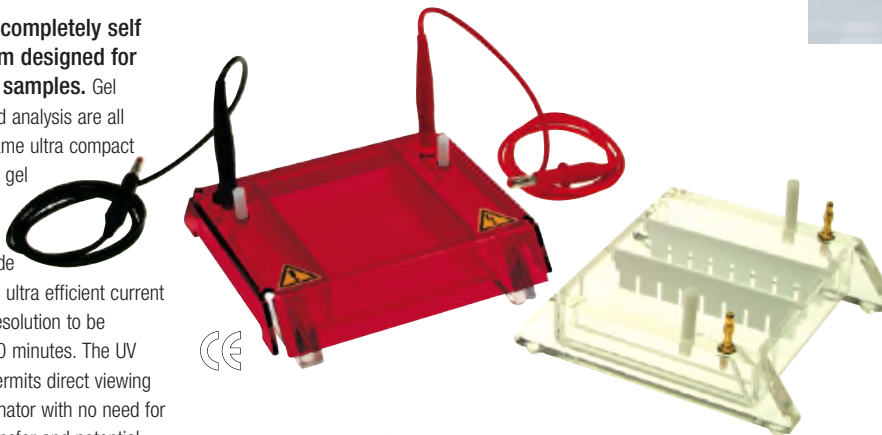
BCMSSCRNTRIO multiSUB Screen, 26 x 16cm, 26 x 24cm, 26 x 32cm UV Trays, 6 x 28 sample combs, loading guides

MS26-UV32	26 x 32cm UV Tray	MS26-PE	Positive Electrode	MSSCRNCP	Cool-Pack and Platform
MS26-UV24	26 x 24cm UV Tray	MS26-NE	Negative Electrode	MSSCRNBSB	Buffer Saver Blocks, pk/2 saves 625ml of buffer
MS26-UV16	26 x 16cm UV Tray	MS26-WP	Viewing Platform	MS26-FC	Flexicaster for gels up to 32cm. Casts 7, 10, 15, 16, 20, 24 and 32cm long gels
MS26-LG	Adhesive Loading Guides	MS26-x -yLG	Combination Comb and Loading Guide		
MS26-UVS	26cm UV Gel Scoop		x = comb well number, y = comb thickness		

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

## MINI RAPIDE

**miniRapide is a completely self contained system designed for quick checks of samples.** Gel casting, running and analysis are all performed in the same ultra compact unit with buffer and gel volumes have been kept to a minimum. The parallel electrode arrangement allows ultra efficient current transfer, enabling resolution to be completed within 30 minutes. The UV transparent base permits direct viewing on a UV Transilluminator with no need for time consuming transfer and potential gel damage. Dual comb slots allow the loading of up to 40 samples per gel while multichannel pipette compatible combs further enhance the speed and convenience.



for UV Transilluminators  
see page 27



- A CONVENIENT SELF CONTAINED SOLUTION FOR ROUTINE AGAROSE GEL ELECTROPHORESIS
- ULTRA COMPACT
- LOW BUFFER VOLUMES
- MULTICHANNEL PIPETTE COMPATIBLE

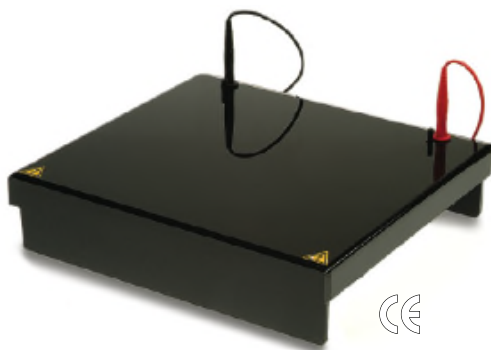
### Technical Specifications

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	1, 4, 8, 12, 16, 20
THICKNESSES	1, 1.5MM

### Typical Applications

For routine, rapid checking of samples

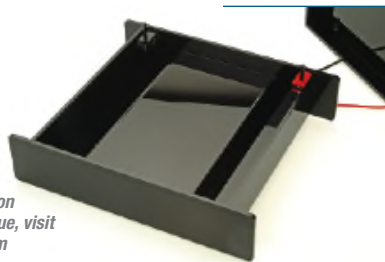
- FOR SINGLE CELL GEL ELECTROPHORESIS
- MINIMISE EXPOSURE TO LIGHT AND REDUCE BACKGROUND DNA DAMAGE
- HIGH EFFICIENCY COOLING FOR ENHANCED RESOLUTION



## COMET ASSAY

The single cell gel electrophoresis assay (also known as the Comet assay) is a simple, rapid and sensitive technique for analysing and quantifying DNA damage in individual mammalian (and to some extent prokaryotic) cells. COMET assay tanks are specifically designed to minimise exposure to light and reduce background DNA damage. Previously, units designed for standard electrophoresis have been used which with their clear construction have not offered an easy to use system.

Constructed from Ebony acrylic to prevent UV degradation, the slides sit on a cooling platform which can be connected to a water supply or chiller for active temperature control and cooling.



for more information on  
COMET assay technique, visit  
<http://cometassay.com>

### ORDERING INFORMATION

BCFMMS10	miniRapide, 10 x 8cm, 2 x 8 sample combs 1.5mm and casting dams
FMMS-DAM	miniRapide Casting dams, pk/2
RPW0.2	Replacement Platinum Wire 0.2mm – 50cm

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
White	FMMS-1-1	Comb 1 sample, 1 dye, 1mm thick	330µl
	FMMS-4-1	Comb 4 sample, 1mm thick	90µl
	FMMS-8-1	Comb 8 sample, 1mm thick	40µl
	FMMS-12-1	Comb 12 sample, 1mm thick	25µl
	FMMS-16-1	Comb 16 sample, 1mm thick	15µl
	FMMS-20MC-1	Comb 20 sample MC, 1mm thick	10µl

Colour	CODE	DESCRIPTION	SAMPLE VOLUME FOR A 5MM THICK GEL
Red	FMMS-1-1.5	Comb 1 sample, 1 dye, 1.5mm thick	495µl
	FMMS-4-1.5	Comb 4 sample, 1.5mm thick	135µl
	FMMS-8-1.5	Comb 8 sample, 1.5mm thick	60µl
	FMMS-12-1.5	Comb 12 sample, 1.5mm thick	38µl
	FMMS-16-1.5	Comb 16 sample, 1.5mm thick	23µl
	FMMS-20MC-1.5	Comb 20 sample MC, 1.5mm thick	15µl

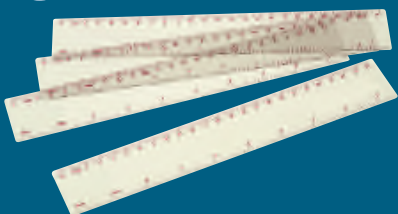
### ORDERING INFORMATION

BCOM10	Comet Assay Tank for 10 Slides	BCOM40	Comet Assay Tank for 40 Slides
BCOM20	Comet Assay Tank for 20 Slides	BCOM80	Comet Assay Tank for 80 Slides

MC = multichannel pipette compatible

# accessories

## gel rulers



- SHARP, CLEAR, EASILY VISIBLE MARKINGS
- FOR USE WITH ETHIDIUM BROMIDE GELS
- IDEAL FOR GEL PRESENTATION

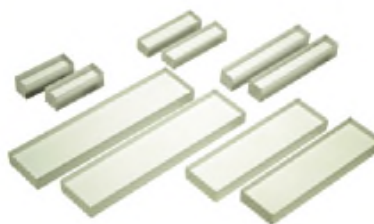
- COLOUR CODED FOR THICKNESS
- COMB AND GUIDE IN ONE PIECE FOR CONVENIENCE
- ADJUSTABLE HEIGHT

- EFFECTIVE COOLING
- COOLS WITHOUT EXTERNAL CHILLING SYSTEMS
- IMPROVES GEL RESOLUTION AND REDUCES RUN TIMES

## HORIZONTAL GEL SYSTEM

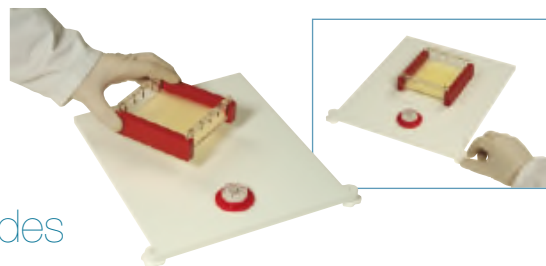
### buffer saver blocks

**Buffer saver blocks** physically reduce the volume in positive and negative compartments of a gel chamber and so reduces buffer requirements, saving cost. Blocks are available for all multiSUB Horizontal Gel Units.

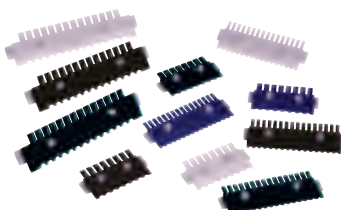


### gel levelling table

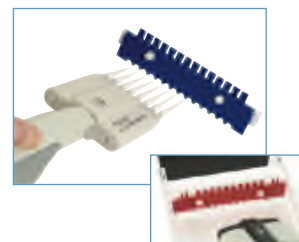
This **Gel Levelling Table** provides a useful way of pouring gels of uniform thickness. The table features a large 32 x 26cm platform with large thumb-wheel levelling feet at each corner. A levelling bubble is supplied.



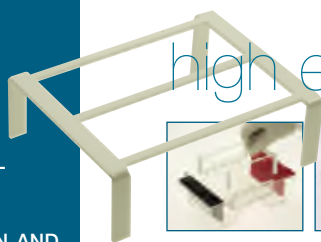
### combi-comb/loading guides



These **guides** combine the convenience of a regular comb with the appropriate guide (same teeth number and width) for loading samples, simply flip over.



### high efficiency horizontal gel cooling



**Comprising a removable Gel Platform and CoolPack** this unique system will cool the buffer chamber of multiSUB horizontal gel units without any external chilling. Simply place the platform over the running tray and place a pre-chilled CoolPack on top. This allows the CoolPack to sit in the buffer, above the gel directly, removing any heat generated.

#### ORDERING INFORMATION

##### High Efficiency Horizontal Gel Cooling Systems

MSMINICP	CoolPack and Platform for MSMINI
MSMIDICP	CoolPack and Platform for MSMIDI
MSCHOICECP	CoolPack and Platform for MSCHOICE
MSMAXICP	CoolPack and Platform for MSMAXI
MSSCREENCP	CoolPack and Platform for MSSCREEN

##### Horizontal Buffer Saver Blocks

MSMINIBSB	Buffer Saver Blocks for MSMINI, pk/2 saves 100ml of buffer
MSMIDIBSB	Buffer Saver Blocks for MSMIDI, pk/2 saves 100ml of buffer
MSCHOICEBSB	Buffer Saver Blocks for MSCHOICE pk/2 saves 190ml of buffer
MSMAXIBSB	Buffer Saver Blocks for MSMAXI pk/2 saves 450ml of buffer
MSSCREENBSB	Buffer Saver Blocks for MSSCREEN, pk/2 saves 625ml of buffer

##### Horizontal Systems Combi Comb / Loading Guides

(x = comb well number, y = comb thickness)	
MS7-x -yLG	Combination Comb and Loading Guide for MSMINI
MS10-x -yLG	Combination Comb and Loading Guide for MSMIDI
MS15-x -yLG	Combination Comb and Loading Guide for MSCHOICE
MS20-x -yLG	Combination Comb and Loading Guide for MSMAXI
MS26-x -yLG	Combination Comb and Loading Guide for MSSCREEN

##### Gel Levelling Table

GLT	Gel Levelling Table
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##### UV Fluorescent Ruler

RLR	UV Fluorescent Ruler
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