

MW

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

| | | | |
|-----------------------------|---------------------------------|--------------------------------|---------------------------|
| Алматы (7273)495-231 | Казань (843)206-01-48 | Новокузнецк (3843)20-46-81 | Смоленск (4812)29-41-54 |
| Архангельск (8182)63-90-72 | Калининград (4012)72-03-81 | Новосибирск (383)227-86-73 | Сочи (862)225-72-31 |
| Астрахань (8512)99-46-04 | Калуга (4842)92-23-67 | Омск (3812)21-46-40 | Ставрополь (8652)20-65-13 |
| Барнаул (3852)73-04-60 | Кемерово (3842)65-04-62 | Орел (4862)44-53-42 | Сургут (3462)77-98-35 |
| Белгород (4722)40-23-64 | Киров (8332)68-02-04 | Оренбург (3532)37-68-04 | Тверь (4822)63-31-35 |
| Брянск (4832)59-03-52 | Краснодар (861)203-40-90 | Пенза (8412)22-31-16 | Томск (3822)98-41-53 |
| Владивосток (423)249-28-31 | Красноярск (391)204-63-61 | Пермь (342)205-81-47 | Тула (4872)74-02-29 |
| Волгоград (844)278-03-48 | Курск (4712)77-13-04 | Ростов-на-Дону (863)308-18-15 | Тюмень (3452)66-21-18 |
| Вологда (8172)26-41-59 | Липецк (4742)52-20-81 | Рязань (4912)46-61-64 | Ульяновск (8422)24-23-59 |
| Воронеж (473)204-51-73 | Магнитогорск (3519)55-03-13 | Самара (846)206-03-16 | Уфа (347)229-48-12 |
| Екатеринбург (343)384-55-89 | Москва (495)268-04-70 | Санкт-Петербург (812)309-46-40 | Хабаровск (4212)92-98-04 |
| Иваново (4932)77-34-06 | Мурманск (8152)59-64-93 | Саратов (845)249-38-78 | Челябинск (351)202-03-61 |
| Ижевск (3412)26-03-58 | Набережные Челны (8552)20-53-41 | Севастополь (8692)22-31-93 | Череповец (8202)49-02-64 |
| Иркутск (395)279-98-46 | Нижний Новгород (831)429-08-12 | Симферополь (3652)67-13-56 | Ярославль (4852)69-52-93 |
| Россия (495)268-04-70 | Киргизия (996)312-96-26-47 | Казахстан (7172)727-132 | |

Molecular Biology

Nucleic acid processing media, FTA®

Qiagen

FTA® products from Qiagen provide users with an established range of effective tools and innovative solutions for the collection, purification and transportation of nucleic acids.

FTA® is a chemical treatment that allows for the rapid isolation of pure DNA. When samples are applied to FTA®-treated paper or card, cell lysis occurs and high molecular weight DNA is immobilised within the matrix. Amplification or restriction enzyme digestion can be performed directly on the treated paper without the need for extensive extraction procedures.

Features

- ◆ Rapid isolation of pure DNA
- ◆ Designed to kill pathogens and prevent future colonisation by bacteria of fungi
- ◆ Protects DNA from microbial and environmental degradation
- ◆ Archive samples at room temperature
- ◆ Reduces potential for cross-contamination between samples
- ◆ Eliminates shearing forces associated with conventional extraction methods

QIAcard FTA® Classic and Micro cards

FTA® treated, 75 x 75mm cards designed for collection and transport of biological materials.

- ◆ All cells are lysed, even from solid tissue
- ◆ Bacteria and viruses are inactivated, providing non-hazardous samples
- ◆ Biological samples can be collected, transported and stored at room temperature
- ◆ Cards can be punched to provide clean DNA samples for easy transfer to PCR reaction vessels
- ◆ Amplifications possible on biological samples stored on cards at room temperature for ten years
- ◆ QIAcard FTA® Micro card is one quarter of the size of the QIAcard FTA® Classic card

As described. Supplied in packs of 100.

MW200-10 WB120205 QIAcard FTA® Classic cards

MW200-25 WB120210 QIAcard FTA® Micro cards

QIAcard FTA® Gene cards

Similar to the QIAcard FTA® Classic cards but prepared for automation. Contains three circles without paper cover, each to hold approximately 50µl of whole blood (more if spotting is outside the circle). Supplied in a pack of 100.

MW200-60 WB120208 QIAcard FTA® Gene cards

Benefits

- ◆ Capture and store nucleic acids in one step
- ◆ Reduces handling, saving time and money
- ◆ Stabilises genomic DNA at room temperature for over eleven years

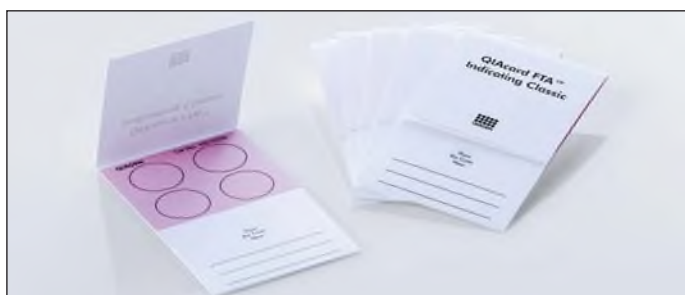
QIAcard CloneSaver™ cards

Capture BAC and Plasmid DNA for long term storage and downstream applications in one easy step.

- ◆ Simply apply 5µl bacterial culture, resuspended colony or glycerol stock to a QIAcard CloneSaver™ card. The plasmid or BAC DNA is captured and stabilised for long-term storage or immediate processing
- ◆ Captured DNA is easily accessible for downstream applications
- ◆ Store up to 96 samples on each QIAcard CloneSaver™ card
- ◆ QIAcard CloneSaver™ cards include a pink indicator that turns white upon sample application to aid identification and location
- ◆ Plasmid DNA held on QIAcard CloneSaver™ cards are stable at room temperature for at least two and a half years

QIAcard CloneSaver™ cards provide a convenient and accessible format for downstream applications involving frequently used, plasmid and BAC clones. Washed, punched discs from the card are ready for transformation of bacteria by stored, immobilised, plasmid DNA using electroporation or heat-shock methods. An immobilised plasmid DNA punch can also be used directly as a template for PCR. The plasmid DNA template remains bound to the punch and can be re-used in another reaction. The PCR products remain in solution, do not bind to the punch, and are easily recoverable. Supplied in a pack of 5.

MW200-85 WB120028 QIAcard CloneSaver™ cards



MW200-10



MW200-60



MW200-85

Molecular Biology

Nucleic acid processing media, FTA®

Whatman®

FTA® purification reagent

A non-toxic, hypoallergenic solution used for the rapid purification of DNA from a wide range of biological specimens stored on FTA®-treated matrix.

- ◆ Provides superior quality DNA for PCR or RFLP analysis
- ◆ Simple washing procedure ensures complete removal of all heme, PCR inhibitors and other contaminants
- ◆ Prepares DNA from a wide variety of specimens: whole blood, epithelial cells, cell cultures, solid tissues - even yeast and bacteria

As described. Supplied in a bottle of 500ml.

MW205-10 WB120204 FTA® Purification reagent

Sample collection products

Applicator swabs

Foam tipped, sterile swabs for the non-abrasive collection of buccal cells and simple transfer to FTA® media for DNA typing applications. Supplied sterile in a pack of 100.

MW205-37 WB100032 Applicator swabs

Omni swabs

With ejectable head for easy transfer of samples into tubes and multiwell plates for DNA analysis. Individually sterile wrapped within a pack of 100.

MW205-44 WB100035 Omni swabs

Desiccant

For controlling moisture in specimen packages. Supplied in a pack of 1000 x 1g sachets.

MW205-60 WB100003 Desiccant sachets

Multi-barrier pouches

Multi-layer pouches for use with FTA® or CloneSaver™ cards as indicated.

| | Ref. | For cards | Pack qty. |
|-----------------|----------|------------------|-----------|
| MW205-72 | WB100036 | FTA® Gene/Micro | 100 |
| MW205-77 | WB100037 | FTA® Classic | 100 |
| MW205-79 | WB100024 | FTA® CloneSaver™ | 50 |

Harris Uni-Core disposable micro punches

Designed for rapid, easy sampling from FTA® and CloneSaver™ cards.

- ◆ Reusable up to 500 punches before disposal
- ◆ Sharp, stainless steel, precision cutting edge guarantees fast, precise punching and ejection, uniform sampling and no carry-over between punches
- ◆ Accessory "self-healing", inert cutting mats ensure clean sample cuts, protect and extend the life of the micro punch

As described. Supplied in packs or singly, as indicated. Without cutting mat.

MW224-05 Uni-Core punches, WB100028, with 1.2mm tip, pack of 4

MW224-16 Uni-Core punches, WB100029, with 2.0mm tip, pack of 4

MW224-25 Uni-Core punches, WB100039, with 3.0mm tip, pack of 4

MW224-35 Uni-Core punches, WB100040, with 6.0mm tip, pack of 4

MW224-40 Uni-Core punches, WB100073, with 1.0mm tip, pack of 25

MW224-50 Uni-Core punches, WB100074, with 1.2mm tip, pack of 25

MW224-60 Uni-Core punches, WB100076, with 2.0mm tip, pack of 25

MW224-70 Uni-Core punches, WB100078, with 3.0mm tip, pack of 25

MW224-80 Uni-Core punches, WB100082, with 6.0mm tip, pack of 25

MW224-90 Cutting mat, 150 x 200mm, WB100020

MW224-95 Cutting mat, 2½" x 3" (63 x 75mm), WB100088



MW205-10



MW205-44



MW205-60



MW224



MW205-37



MW205-72 to MW205-79

Cooling/Heating Blocks, PCH Series

Grant bio

Suitable for cooling and heating applications including nick translation, ligation reactions, restriction digests, tube hybridisation, enzyme reactions and deactivations.

- ◆ Range -10 to +100°C
- ◆ Choice of microtube blocks:
 - PCH-1: 12 x 1.5ml/20 x 0.5ml
 - PCH-2: 20 x 1.5ml
- ◆ 0 to 96 hours x 1 minute timer with audible alarm at end of timed period

Specifications - both models

| | | |
|----------------------------------|-------------------|-------------------|
| Range x resolution | °C | -10 to +100 x 0.1 |
| Stability | ±°C | 0.2 |
| Uniformity @ 10°C | ±°C | 0.5 |
| Heat up time (ambient to +100°C) | minutes | <10 |
| Cool down times, minutes | +100°C to ambient | <12 |
| | ambient to -10°C | <11 |
| W x D x H | mm | 225 x 195 x 161 |
| Weight | kg | 3.5 |

As described. With insulating cover and fitted with block as indicated. For 220-240V 50/60Hz single phase supplies.

MW340-10 PCH-1, 12 x 1.5ml/20 x 0.5ml

MW340-20 PCH-2, 20 x 1.5ml



MW340 in use

Molecular Biology

Hybridisation Oven/Shaker



- ◆ Digital set and read temperature control
- ◆ Stainless steel interior
- ◆ Fan circulation
- ◆ Safety thermostat
- ◆ Up-and-over door with double glazed front panel
- ◆ Temperature ambient +8°C to 80°C
- ◆ Variable speed rotisserie and shaker
- ◆ Designed for 20cm wide membrane
- ◆ Rotisserie acts as a bottle stand on the bench

A combined oven/shaker. The 7-bottle rotisserie rotates on rollers. Speed is variable between 2 and 10rpm. A platform fitted in the back drops forward to form a rocking shaker with variable speed of 5 to 70 oscillations per minute. The counterbalanced door opens to allow for full access into the incubator. The front is double glazed of acrylic and polycarbonate to withstand temperatures up to 80°C and to act as a radio-isotope shield.

| | | |
|-----------------------|-----------------|-----------------|
| Catalogue No. | MW400-15 | |
| Model | SI30H | |
| Type | Oven/shaker | |
| Capacity | litres | 20 |
| Max. temperature | °C | 80 |
| Fluctuation at 37°C | ±°C | 0.5 |
| Dimensions, H x W x D | internal mm | 200 x 286 x 230 |
| | external mm | 435 x 380 x 380 |

Hybridisation Oven-Shaker, Stuart

As described. With variable speed, 7-bottle rotisserie, and linear shaker. For 230V 50Hz single phase supplies. Without hybridisation bottles.

MW400-15 Oven Shaker, SI30H

Spares and Accessories

MW400-30 Rotisserie, spare for 7 x 40mm i.d. bottles

MW400-33 Rotisserie, for 2 x 75mm bottles

Hybridisation bottles

Heavy wall borosilicate glass. Suitable for autoclaving up to 140°C.

| | H x dia., mm |
|-----------------|--------------|
| MW413-18 | 170 x 40 |
| MW413-22 | 260 x 40* |
| MW413-34 | 260 x 75 |

*The 260 x 40mm bottles accept the 20cm wide membranes.



MW400-15 in use

PCR Cabinets

Bigneat

- ◆ Choice of models:
 - UV sterilisation cabinet; with powerful UV tube lights and reflectors controlled by a 5 to 30 minute timer. Aluminium frame with 10mm thick acrylic side panels and hinged door flap at the front face including a safety sensor which switches off the UV lamps when the door is opened, PVC base tray, externally controlled white light illumination and corner shelves. Cable ports are provided in the side panels
 - PCR workstation; as above but additionally with fan and class 100 filtration system which maintains positive air pressure out of the cabinet reducing contamination risk. Pre-filter is 90% efficient to EFV grade EU7, the main HEPA filter is 99.997% efficient for particulates as small as 0.3 µm. An electronic filter saturation indicator illuminates when the filters require replacing

| Catalogue No. | | MW520-10 | MW520-20 |
|---------------------------------|------|------------------|-----------------|
| Cabinet | | UV sterilisation | PCR workstation |
| Dimensions, internal (external) | H mm | 730 (802) | 730 (802) |
| | W mm | 489 (549) | 489 (549) |
| | D mm | 699 (863) | 699 (998) |
| Weight | kg | 58 | 58 |

PCR cabinets, Bigneat

As described. For 230V 50Hz single phase supplies.

MW520-10 UV sterilising cabinet

MW520-20 PCR workstation

COMMISSIONING

A commissioning service for the PCR cabinets is available within the UK at additional cost – details on request



MW520-20, MW520-10 is similar

Molecular Biology

PCR Cabinet

FumeCare

Compact, benchtop mounting, ductless workstation for the preparation of PCR and sterile samples to avoid contamination with undesired DNA.

- ◆ Epoxy-coated, steel frame with polycarbonate side panels and hinged front panel
- ◆ Laminar flow system provides clean air conditions that are comparably better than Class 100 at the work surface
- ◆ UV steriliser lamp, operating at 15W and 254nm wavelength, with timer and inter-locked "night door" preventing accidental operator exposure
- ◆ Internal work surface lighting and clear side panels allow comfortable operation and excellent viewing at all times
- ◆ Safety alarm operates if the face velocity falls below 0.3m/second
- ◆ Removable top panel allows easy access for filter exchange

PCR cabinet, FumeCare

As described. Supplied with 15W fluorescent white and UV lamps, HEPA filter and instructions. Overall 600 x 670 x 900mm W x D x H. Weight 55kg. For 230V 50Hz single phase supplies.

MW530-15 PCR workstation

MW530-80 Spare HEPA filter

| | | |
|------------------------------------|----------------------|-----------------|
| Catalogue No. | | MW530-15 |
| Dimensions, internal (external) | H mm | 630 (900) |
| | W mm | 550 (600) |
| | D mm | 550 (670) |
| Weight | kg | 55 |
| Airflow | m ³ /hr | 250 |
| Prefilter efficiency | % | >99.6 |
| Face velocity | m ³ /sec. | >0.4 |

COMMISSIONING

A commissioning service for the PCR cabinets is available within the UK at additional cost – details on request



MW530-15

Molecular Biology

Thermal Cyclers, Spex® PCRMax®

Self-contained, gradient thermal cyclers with numerous applications in molecular biology and diagnostics laboratories.

- ◆ High definition touchscreen operation with Android-driven interface
- ◆ Automated protocol optimisation with programme wizard
- ◆ Remote operation/monitoring available allowing alarm, time and system health checks via the user's phone
- ◆ USB user login sets all defaults to the individual user's settings
- ◆ Regularly-used default programmes can be created, locked and protected
- ◆ Units for 1, 2 and 4 block stations with 96-well or 384-well combinations
- ◆ Gradients run across 12 or 16 columns on 96-well or 384-well plates respectively, using 8 individual Peltier heat sources

| Block format | | Single block | Two-block | Four-block |
|--|-----|-------------------------------|-----------------|-----------------|
| Temperature range, block | °C | 10 to 100 — all models | | |
| Block uniformity (at +55°C) | °C | <±0.3 — all models | | |
| Gradient Minimum/maximum | °C | 1/29 — all models | | |
| Gradient accuracy | ±°C | 0.25 — all models | | |
| Maximum number of programmes [†] | | 1000 built-in — all models | | |
| Selectable heated lid temperature [#] | °C | 35 to 115 or off — all models | | |
| Auto restart on power failure? | | Yes — all models | | |
| Manual pause and stop facility | | Yes — all models | | |
| Peltier elements per block | | 8 — all models | | |
| Data/network interface | | USB — all models | | |
| Dimensions D x W x H | mm | 430 x 260 x 200 | 470 x 535 x 335 | 700 x 535 x 335 |
| Weight, net | kg | 6 | 30 | 47 |

[†] The maximum number of programmes available depends on the number of segments required per programme.

[#] Heated lid will only come on if block temperature is set above 35°C.

Personal Thermal Cyclers, Spex® PCRMax®

As described. All PCRMax® models include a USB output to transfer data and act as a user login key port using any accessory USB drive. For 100-230V 50/60Hz a.c. single phase supplies.

| | Model | Block no. x format |
|-----------------|--------|---------------------------|
| MW612-06 | AC196 | 1 x 96-well |
| MW612-12 | AC1384 | 1 x 384-well |
| MW612-18 | AC296 | 2 x 96-well |
| MW612-24 | AC2384 | 2 x 384-well |
| MW612-30 | AC2196 | 1 x 96-well, 1 x 384-well |
| MW612-36 | AC496 | 4 x 96-well |
| MW612-42 | AC4384 | 4 x 384-well |
| MW612-48 | AC4196 | 1 x 96-well, 3 x 384-well |
| MW612-54 | AC4296 | 2 x 96-well, 2 x 384-well |
| MW612-60 | AC4396 | 3 x 96-well, 1 x 384-well |



MW612 single block



MW612 dual block



MW612 four block

Molecular Biology

Programmable Thermal Cyclers Prime Series



High performance thermal cyclers designed for laboratories requiring a large sample throughput. A fully interchangeable block system allows exchange without needing tools and offers enhanced versatility. A large, 5.7" VGA colour touchscreen with intuitive software programming and graphical display ensures user-friendly control and operation. Up to 1000 x 3-segment programmes can be stored with incremental/decremental timing and temperature elements. 8 Peltier modules per block provide rapid heating and cooling over the range +4°C to +100°C, with block uniformity $\leq \pm 0.3^\circ\text{C}$ at 55°C. A heated lid is provided with adjustable sealing pressure to accommodate a variety of consumables and a USB port allows networking with other cyclers or data transfer to the user's computer. Additionally, the PrimeG model allows gradient cycling with annealing temperatures optimisable over a 1 to 29°C range (1 to 19°C when using the 384-well block) and between 30°C and 80°C. For 100 to 230V 50/60Hz single phase supplies.

| Model | Prime | PrimeG |
|---|---------------------------------|----------------------------------|
| Temperature range, block | °C +4 to +100 — all models | |
| gradient | — | +30 to +80 |
| Block uniformity (at +55°C) | °C $\leq \pm 0.3$ — all models | |
| Temperature accuracy (at 55°C) | °C $\leq \pm 0.25$ — all models | |
| Min./Max gradient | °C — | 1/29 (19 - 384-well plate block) |
| Maximum number of programmes [†] (3 segment) | 1000 built-in — all models | |
| Selectable heated lid temperature [#] | °C 100 to 115 — all models | |
| Programme ramp rate, °C per second | up to 3.4 — all models | |
| Peltier elements per block | 8 — all models | |
| Data/network interface | USB — all models | |
| Dimensions D x W x H | mm 420 x 240 x 240 — all models | |
| Weight, net | kg 9.4 — all models | |

[†] The maximum number of programmes available depends on the number of segments required per programme.

[#] Heated lid will only come on if block temperature is set above 35°C.

Programmable Thermal Cyclers, Prime, Techne

Prime, non-gradient

MW630-40 Prime with 96 x 0.2ml microtubes

MW630-45 Prime with 60 x 0.5ml microtubes

MW630-50 Prime with 384-well microplates

PrimeG, gradient

MW635-35 PrimeG with 96 x 0.2ml microtubes

MW635-45 PrimeG with 60 x 0.5ml microtubes

MW635-50 PrimeG with 384-well microplates

Spares and accessories

MW637-40 Accessory block for 96 x 0.2ml microtubes

MW637-45 Accessory block for 60 x 0.5ml microtubes

MW637-50 Accessory block for 384-well microplates

MW637-60 Prime gradient upgrade. Converts Prime cyclers to Prime gradient models

Important Notice

Purchase of Techne thermal cyclers conveys a limited, non-transferable immunity from suit for the purchaser's own internal research and development and applied fields, other than in-vitro diagnostics, under non-real-time thermal cycler patents of Applied Biosystems LLC.



MW630/MW635



MW630/MW635

Molecular Biology

Mini Cooler

Mini cooler for 0.2ml tubes, strips and plates

Benchtop cooler with lid which can maintain tubes below +4°C up to 3 hours once fully frozen beforehand. Changes colour from violet to pink as the temperature exceeds 7°C. Supplied in a pack of 2.

MW708-85 Mini cooler for PCR tubes, pack of 2



MW708-85

Microtubes and Plates



Microtube strips, Elkay

Strips of 8 x 0.2ml thin-walled, polypropylene conical tubes ideal for use with 96 well, V-bottom, thermal cycler blocks. Strips can be easily cut to separate individual tubes. Supplied in shelf packs of 2 x 125 strips (250 strips total) within outer packs as indicated. Non-sterile.

| | Capacity, ml | Cap | Pack qty. |
|-----------------|--------------|-----|-----------|
| MW730-20 | 0.2 | No | 2000 |

Microtube plates, Elkay Thermo-Fast

Precision moulded, polypropylene, 96 x 0.2ml thin-walled microtube matrix in microplate format, unskirted or skirted, to fit similar format, V-bottom, thermal cycler blocks. Supplied in packs of 50 (except MW745-30 which is supplied in a pack of 25).

MW745-30 Thermo-Fast 0.2ml unskirted plates, non-sterile

MW745-34 Thermo-Fast 0.2ml skirted plates, non-sterile

MW745-36 Thermo-Fast 0.2ml half-skirted plates, non-sterile

Accessories for MW745 series

MN380-25 Sealplate adhesive plate sealing films, pack of 100

96-Well PCR Tube Rack

Autoclavable, rigid, polypropylene rack holds 0.2ml tubes individually, or in strips of 8 or 12. Tube apertures are easily identified using embossed numbers and letters. With removable, hinged lid. Overall W x D x H 98 x 130 x 33mm. Supplied in a pack of 5 mixed colours (1 each blue, green, pink, yellow and orange).

MW747-15 PCR tube racks, pack of 5



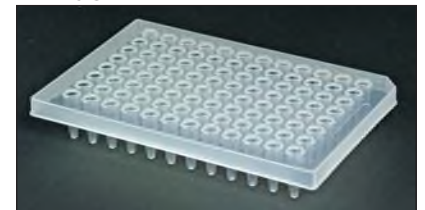
MW730



MW745-30



MW745-34



MW745-36



MW747-15 in use

Molecular Biology

Reaction Vessels, Thermowell GOLD

CORNING

A wide range of precision moulded, thin walled, polypropylene, reaction vessels specifically designed for use in PCR applications. A variety of formats ensure compatibility with thermocycling and sequencing instrumentation application requirements and user preferences. Certified RNase- and DNase-free.

| | Ref. | Colour | Sleeve qty. | Pack qty. |
|---|------|------------------|-------------|-----------|
| PCR microplates, 384-well | | | | |
| MW760-05 | 3757 | Clear | 10 | 50 |
| PCR microplates, 96-well, full skirt | | | | |
| MW760-15 | 3752 | Clear | 10 | 50 |
| PCR microplates, 96-well, half skirt | | | | |
| MW760-25 | 3753 | Clear | 10 | 50 |
| PCR microplates, 96-well, elevated skirt | | | | |
| MW760-35 | 3754 | Clear | 10 | 50 |
| 8 x 0.2ml PCR tube strips | | | | |
| MW760-44 | 3741 | Clear | 125 | 1250 |
| MW760-48 | 3740 | Assorted | 125 | 1250 |
| 8 x 0.2ml PCR tube cap strips for above | | | | |
| MW760-54 | 3743 | Clear | 125 | 1250 |
| MW760-58 | 3748 | Assorted | 125 | 1250 |
| MW760-60 | 3742 | Optically clear* | 125 | 1250 |
| 0.2ml PCR tubes, individual, flat cap | | | | |
| MW764-06 | 3745 | Clear | 500 | 1000 |
| MW764-12 | 3744 | Assorted | 500 | 1000 |
| 0.2ml PCR tubes, individual, domed cap | | | | |
| MW764-16 | 3747 | Clear | 500 | 1000 |
| MW764-22 | 3746 | Assorted | 500 | 1000 |
| 0.5ml PCR tubes, individual, flat cap | | | | |
| MW764-26 | 3750 | Clear | 500 | 1000 |
| MW764-32 | 3749 | Assorted | 500 | 1000 |

*For Real-time PCR (RT-PCR).

Sealing tapes and mats for PCR microplates.

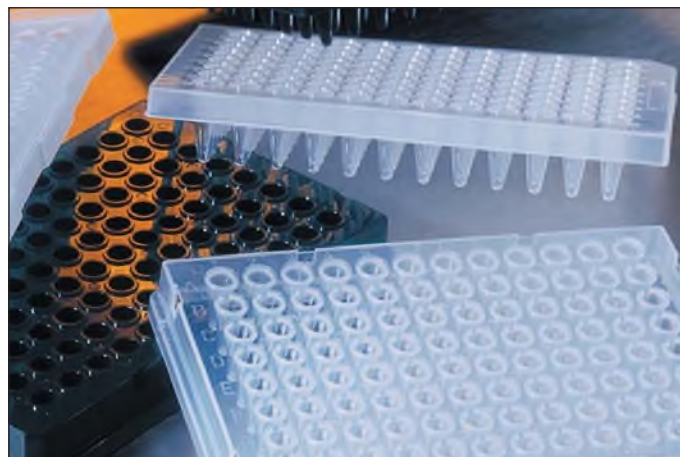
| | Ref. | Description | Sleeve qty. | Pack qty. |
|-----------------|------|---|-------------|-----------|
| MW767-12 | 6569 | Aluminium sealing tape for 384-well microplates | 100 | 100 |
| MW767-16 | 6570 | Aluminium sealing tape for 96-well microplates | 100 | 100 |
| MW767-28 | 6524 | PE sealing tape strips for 96-well microplates | 1 | 100 |

Sealing caps and tape strips for Real-time PCR

Designed for use with 8 x 0.2ml PCR tube strips and 96-well microplates, respectively.

MW760-60 Ref. 4742 3742. Optically clear flat caps, 8-strip, in sleeve of 125 strips within a pack of 1250

MW767-85 Ref. 6575 3742. Universal optical sealing tape strips, pack of 100



MW760-15/MW760-35



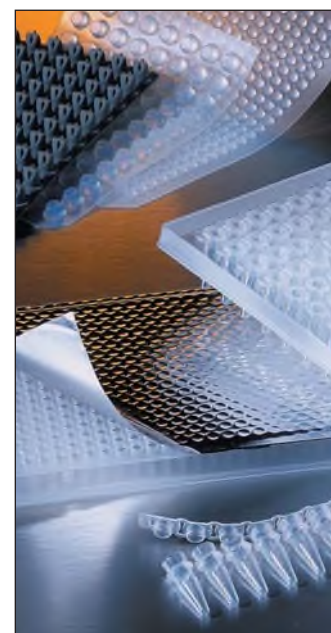
MW760-05



MW760-44/MW760-60



MW764-06/MW764-32



MW767

Molecular Biology

Microplate Sealing Film/Foil



A comprehensive range of both self-adhesive and heat-sealed microplate sealing films and foils suitable for PCR experiments.

| Type | Description | Material | Peelable | Pierceable | Temperature range °C |
|----------------------------------|--|----------|----------|------------|----------------------|
| Self-adhesive film/foil | | | | | |
| QuickSeal PCR™ | Transparent film | PET | ✓ | x | -20 to +110 |
| QuickSeal Micro™ | Transparent film | PP | ✓ | x | -20 to +80 |
| QuickSeal Foil PCR™ | Foil barrier film | Al | ✓ | ✓ | -40 to +120 |
| QuickSeal qPCR Crystal™ | Transparent film with good optical clarity and DMSO resistance for qPCR fluorescence and crystallisation | BOPP | ✓ | x | -40 to +110 |
| Heating sealing film/foil | | | | | |
| ClearASeal Peel™ | Transparent film with good optical clarity and moderate solvent resistance suitable for qPCR | PET | ✓ | x | -80 to +80 |
| ClearASeal Pierce™ | Transparent film with good optical clarity and moderate solvent resistance | PET | x | ✓ | -80 to +80 |
| PeelASeal Foil™ | Foil laminate with moderate solvent resistance | PET/Al | ✓ | x | -80 to +110 |
| PeelASeal DMSO Foil™ | Foil laminate with high solvent resistance | PET/Al | ✓ | x | -80 to +80 |
| PierceASeal Foil™ | Foil laminate with high solvent resistance | Al | x | ✓ | -20 to +120 |
| PierceASeal Foil PS™ | Foil laminate with high solvent resistance | PET/Al | ✓* | ✓ | 20 to +120 |

*On to polystyrene plates only.

Material key: PET: polyethylene terephthalate
Al: aluminium

PP: polypropylene
BOPP: biaxially oriented polypropylene

As described. Supplied in rolls or packs of sheets as indicated.

Self-adhesive film/foil

QuickSeal PCR™

MW780-10 100m x 80mm width roll
MW780-12 135 x 80mm sheets, pack of 100

QuickSeal Micro™

MW780-14 100m x 80mm width roll
MW780-16 110m x 80mm width roll, sterile
MW780-18 135 x 80mm sheets, pack of 100

QuickSeal Foil PCR™

MW780-20 200m x 80mm width roll
MW780-22 135 x 80mm sheets, pack of 100

QuickSeal qPCR Crystal™

MW780-24 100m x 80mm width roll
MW780-26 140 x 80mm sheets, pack of 100

Heat sealing film/foil

ClearASeal Peel™

MW784-10 500m x 78mm width roll
MW784-12 125 x 78mm sheets, pack of 100

ClearASeal Pierce™

MW784-14 610m x 78mm width roll
MW784-16 125 x 78mm sheets, pack of 100

PeelASeal Foil™

MW784-18 610m x 78mm width roll
MW784-20 125 x 78mm sheets, pack of 100

PeelASeal DMSO Foil™

MW784-22 500m x 78mm width roll
MW784-24 125 x 78mm sheets, pack of 100

PierceASeal Foil™

MW784-26 610m x 78mm width roll
MW784-28 125 x 78mm sheets, pack of 100

PierceASeal Foil PS™

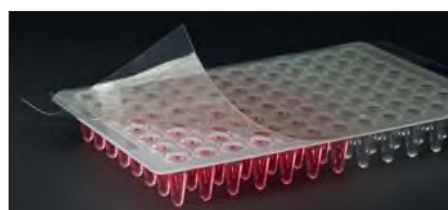
MW784-30 125 x 78mm sheets, pack of 100

Accessories

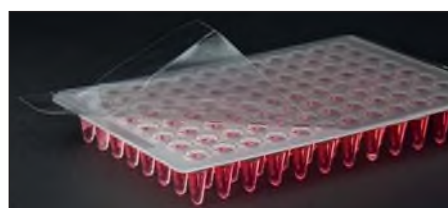
Roller

Rubber roller for manual sealing of film or foil on to microplates.

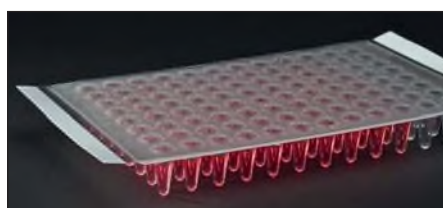
MW792-05 Roller



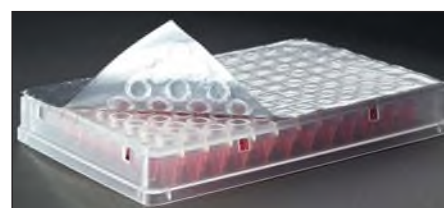
MW780-10/12 in use



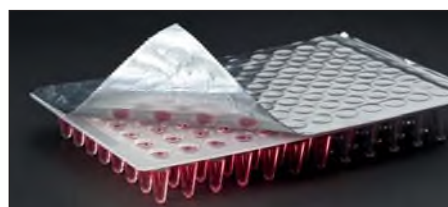
MW780-14 to -18 in use



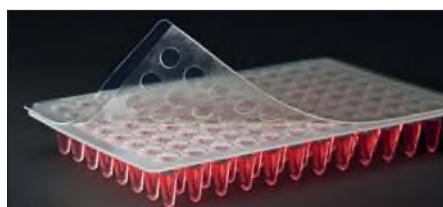
MW780-24/26 in use



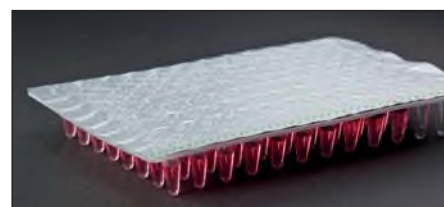
MW784-18 to -24 in use



MW780-20/22 in use



MW784-10 to -16 in use



MW784-26 to -30 in use

Molecular Biology

Electroporator, TSS20 OVODYNE

A square wave pulse generator for bench top use, capable of single or multi-pulse operation at voltages suitable for *in ovo* electroporation. The use of the chick embryo as a model for gene transfer experiments has grown rapidly in recent years. The TSS20 OVODYNE is a highly-refined, microprocessor-based instrument providing flexibility and convenience in operation.

- ◆ Accurate voltage setting
- ◆ Resistance measuring facility ensures that an appropriate voltage is selected for electroporation in the presence of conductive buffers, or that electrode spacing is adjusted to avoid current limiting conditions
- ◆ Clean, square wave pulses produced
- ◆ Safe and easy-to-use
- ◆ Remote hand- or footswitch operation
- ◆ Accessory EP21 current amplifier extends the current range of the TSS20 up to 1000mA, allowing electroporation of other embryo cell types and multiple embryos *in vitro*
- ◆ Silver, tungsten, or platinum-tipped electrodes available

TSS20 Specification

| | | |
|---------------------|----|-----------------|
| Pulse voltage | V | 0 to 99.9 x 0.1 |
| Pulse type | | Square wave |
| Programmable pulses | | 1 to 999 x 1 |
| Pulse width | ms | 1 to 999 x 1 |
| Resistance | | 0 to 9998 x 1 |
| Sequences | | 0 to 999 |
| Overall, W x D x H | mm | 230 x 200 x 85 |
| Weight | kg | 2.5 |
| Supply requirements | | 230V 50/60Hz |

EP21 Specification

| | | |
|---------------------|----|--|
| Input (from TSS20) | V | 15 to 100 at 2mA |
| Peak output | V | 15 to 100 at 1000mA max. |
| Output fuse | | 1amp fast blow, type F |
| Insulation | | Floating output stage, isolated to >3kV from mains and control circuit |
| Overall, W x D x H | mm | 230 x 225 x 55 |
| Weight | kg | 2.35 |
| Supply requirements | | 230V 50/60Hz |

TSS20 OVODYNE

As described. Supplied without probes or probe holders which are required for operation. For 230V 50/60Hz single phase supplies.

MW900-10 TSS20

MW902-14 Accessory footswitch for TSS20

MW902-18 Accessory handswitch for TSS20

EP21 Current Amplifier

As described. Supplied without probes or probe For use only with MW900-10, allowing higher currents up to 1000mA to be passed at up to 100V whilst maintaining the square wave pulse-form. For 230V 50/60Hz single phase supplies.

MW902-40 EP21

Electrode Holders

Available singly for manual positioning, or as the Adjustatrod twin holder with screw clamp adjustment to allow precise positioning of silver "paddle" electrodes either side of the embryo region. All holders are 10cm x 6mm o.d. and supplied with 1 metre cable and plug, in colour as indicated.

MW902-54 Single holder, red

MW902-57 Single holder, black

MW902-62 Adjustatrod, twin holder with 1 each red and black

Silver Electrodes

Insulated 0.8mm diameter shaft with choice of flattened or offset exposed pole. Supplied in packs of 2.

MW902-65 Flattened pole

MW902-69 Offset pole

Tungsten Electrodes

Polyamide insulated, 0.5mm diameter shaft with 10:1 tapered tip with exposed area as indicated. Supplied in packs of 2.

MW902-72 1mm

MW902-73 2mm

MW902-74 3mm

MW902-75 4mm

MW902-76 5mm

Platinum-tipped Electrodes

Insulated shaft in choice of rigid stainless steel or semi-rigid silver, 0.8mm diameter with exposed platinum wire length of 7.5mm x 0.5mm diameter. Supplied in packs of 2.

MW902-88 Stainless steel shaft

MW902-90 Silver wire shaft



MW900-10 with MW902-40, MW902-62 and electrodes



MW902 electrodes

По вопросам продаж и поддержки обращайтесь:

| | | | |
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