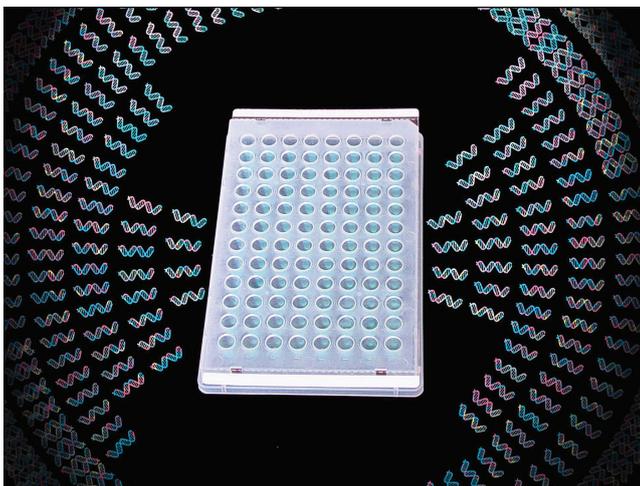


Adhesive Plate Seals - PCR Films

These films for classic thermal cycling applications offer better adhesion, reduced evaporation, longer end tabs for easier handling, and less tendency to tear during removal from the plate.

ThermalSeal®



A 50µm heat-resistant polypropylene sealing film designed for thermal cycling applications, and has sufficient sealing area for all PCR plates.

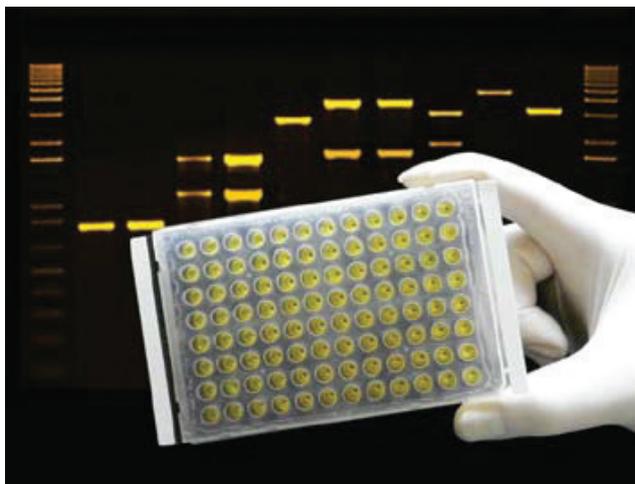
ThermalSeal® sealing films are not pierceable. For applications where piercing with pipette tips or robotic probes is required for product recovery, see AlumaSeal II sealing films. For real-time PCR applications where maximum optical clarity is required, see ThermalSeal RT™, RTS and RT2RR sealing films.

- Heat resistant, recommended for temperatures from -40C to +120C

ThermalSeal® Sealing Film

Catalogue Number	Description	Pack Size
LW2776	ThermalSeal Sealing Films, Non-sterile	100
LW2777	ThermalSeal Sealing Films, Sterile	100

ThermalSeal 2™



These improved films for classic thermal cycling applications consist of a 50 µm polyester film with a 41 µm layer of acrylic adhesive. Compared to the original ThermalSeal® films, ThermalSeal 2™ films offer better adhesion, reduced evaporation, longer end tabs for easier handling, and less tendency to tear during removal from the plate. Each sealing film measures 79.4 x 139.7 mm and offers sufficient sealing area for all PCR plates. Length between the perforations with end tabs removed is 125.1 mm.

(Not recommended for raised-rim plates; see ThermalSeal A™ films - left.)

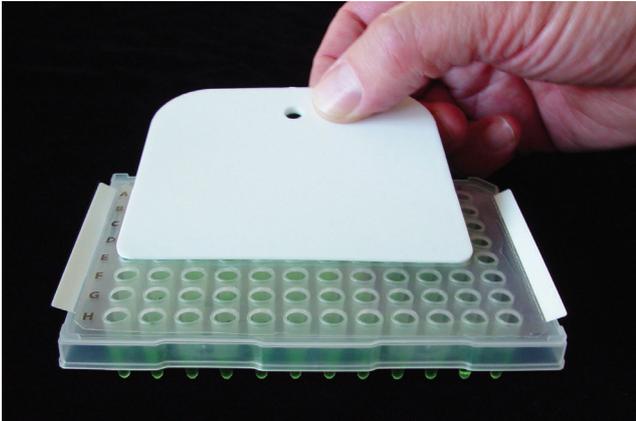
ThermalSeal 2 sealing films are not pierceable. For applications where piercing with pipette tips or robotic probes is required for product recovery, see AlumaSeal® sealing films on page 134. For real-time PCR applications where maximum optical clarity is required, see ThermalSeal RT™, RTS™ and RT2RR sealing films on pages 137-138.

- Heat resistant, recommended for temperatures from -40C to +120C
- Better adhesion; reduced evaporation
- Longer end tabs for easier handling
- Does not tear during removal from the plate
- Easier to apply than aluminum foils, no tendency to roll back

ThermalSeal 2™ Sealing Film

Catalogue Number	Description	Pack Size
LW2726	ThermalSeal2, Non-Sterile	100

ThermalSeal® A



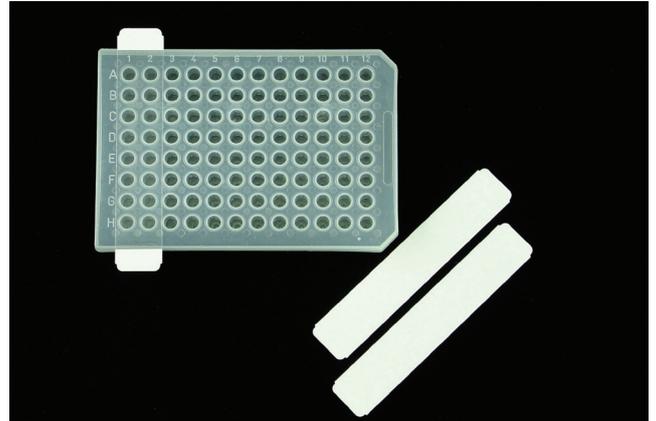
An advanced version of the classic ThermalSeal® films for PCR. They consist of 50µm thick clear polyester with a 41µm layer of a stronger adhesive formulated for improved protection against evaporation and leakage during thermal cycling. Not designed for Real-Time PCR applications*. They are designed to fit inside the edge of raised-rim PCR plates. Each pack of films includes one sealing paddle (see photo) for ensuring a firm seal.

- Heat resistant, recommended for temperatures from -40C to +120C

ThermalSeal® A Sealing Film

Catalogue Number	Description	Pack Size
TSA-100	ThermalSeal A, Non-sterile	100

ThermalSeal® Ministrips

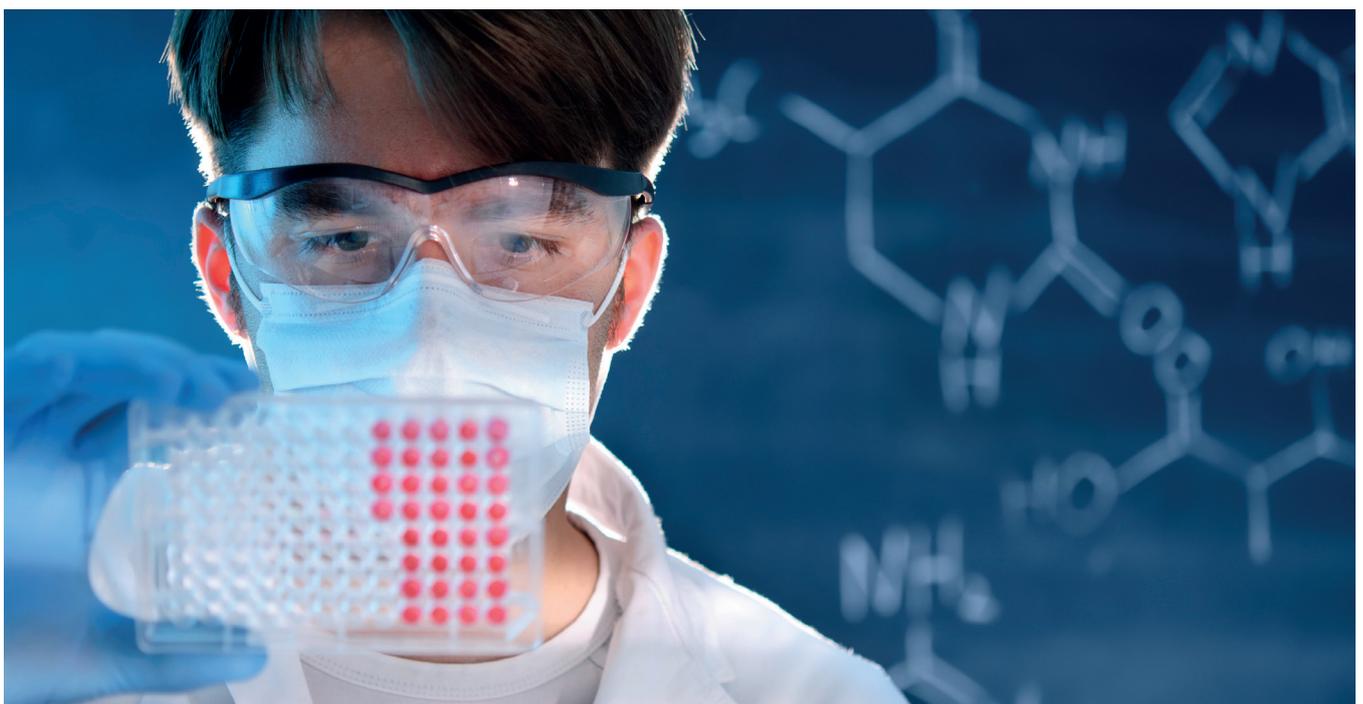


ThermalSeal® MiniStrips™ sealing films are identical to ThermalSeal sealing films (page 138), but designed for sealing only one or two 8-Well rows at a time on PCR plates or strip tubes. They are supplied in convenient sheets of four. Each sealing film strip is 19.0 x 97.3 mm, including two removable positioning tabs. The long dimension with tabs removed is 76.2 mm. Each package of 200 contains 50 sheets of four sealing film strips.

- Two tabs on each strip for easy application and removal
- Perforated tabs can be removed or sealed around plate edge

ThermalSeal® Ministrips™

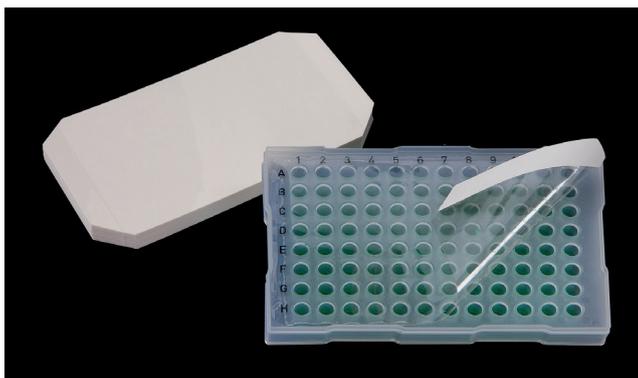
Catalogue Number	Description	Pack Size
LW2735	ThermalSeal® Ministrips™	200 (4 x 50)



eXTReme™

XTR films offer high performance under extreme conditions. A 50µm polyester film with a 40µm layer of strong acrylic adhesive. eXTReme Seal films remove cleanly from plate surfaces without adhesive stringing, residue or contamination.

eXTReme™ Universal Cut



Universal Cut eXTReme sealing films measure 78.3 x 140.5mm and offers sufficient sealing area for all plate types (e.g. flat top and raised-rim). Chamfered corners result in no plate overhang for robotics applications and tight storage conditions. Length between perforations with end tabs removed is 119mm.

eXTReme™ Sealing Film

Catalogue Number	Description	Pack Size
LW2734	eXTReme™ Sealing Film Universal Cut	100

eXTReme™ Large Cut

Large cut eXTReme sealing films are designed for greater coverage which results in a more complete seal around the edges of the plate which can reduce evaporation rates. Larger cut also allows for easier positioning of the film to the plate via edge of plate alignment vs. centering.

- Excellent barrier properties, virtually no sample evaporation or drying
- Two end-tab feature allows for ease of placement of film to plate
- Specially formulated adhesive provides an excellent seal for all plate materials, including polycarbonate
- 50µm polyester film will remove cleanly from plate surfaces with no adhesive stringing or residue and will not tear upon removal

eXTReme™ Sealing Film

Catalogue Number	Description	Pack Size
LW2733	eXTReme™ Sealing Film Large Cut	100

EZcap™ FilmStrips™

For sealing one 8-Well row of a 96-Well PCR plate or a single PCR 8-tube strip.

- An economical and more user-friendly alternative to strip-caps; no more sore thumbs and fingers guaranteed!
- Precision cut to a smaller dimension to seal one 8-Well row of a 96-Well PCR plate or a single PCR 8-tube strip
- Each sheet contains 8 sealing strips on a continuous backing liner for ease of use
- Strips can be peeled individually or two-at-a-time for increased efficiency
- Strips can be used to selectively cover one row of a plate to prevent accidental pipetting or to re-seal rows that have been pierced
- Certified DNase- & RNase- free



Application: Ideal for standard PCR, real-time PCR and storage

Temperature Range: -40C to +120C

- 50µm clear polyester film is ideal for PCR and qPCR
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage
- Removes easily and cleanly from plate surfaces
- Features two removable end-tabs with perforations for ease of handling, application and removal

EZcap™ PCR FilmStrips™

Catalogue Number	Description	Pack Size
LW2736	EZcap PCR FilmStrips	400

Adhesive Plate Seals - PCR Foils

These PCR Foils combine soft non-permeable aluminium with strong medical-grade adhesive to eliminate the need for heat-sealing devices or mats when protecting samples and prevent evaporation during PCR thermal cycling.

Compared to other aluminium foils, these soft foils have less tendency to roll back when removing the backing paper, and conform well to plates during application.

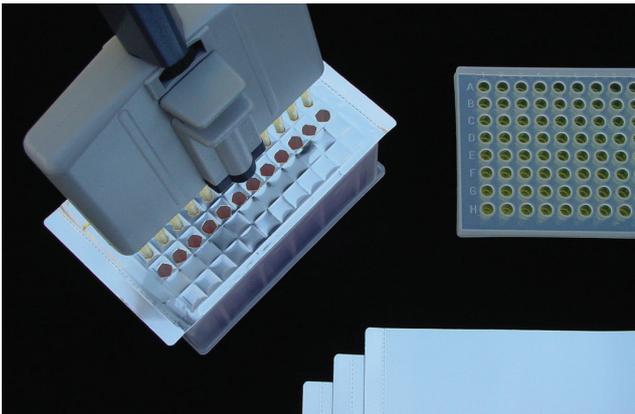
For high performance under extreme conditions the eXTReMe™ FoilSeal™ is ideal for PCR, long-term compound storage, light-sensitive assays and robotics.

AlumaSeal II™

A 36µm soft, non-permeable aluminum foil sealing film with strong medical-grade adhesive, AlumaSeal II™ sealing films eliminate the need for heat-sealing devices or mats during thermal cycling. Each sealing film offers sufficient sealing area for all PCR plates. Compared to other aluminum foils, AlumaSeal II™ has less tendency to roll back on itself when removing the backing paper and conforms well to the plate during application.

Sterile product is packaged in two 100µm tamper-evident bags of 25.

- Easily pierceable with single or multichannel pipettes and robotic probes
- Heat and cold resistant, recommended for temperatures from -80C to +120C
- Excellent barrier properties, virtually no sample evaporation or drying during incubation or storage



AlumaSeal II™ Sealing Film

Catalogue Number	Description	Pack Size
LW2780	AlumaSeal II Sealing Films, Non-sterile	100
LW2781	AlumaSeal II Sealing Films, Sterile	50 (2 x 25)

AlumaSeal 96™ and 384™



A 38µm thick aluminum foil sealing film for use with 96- or 384-Well plates.

Pierceable. Available non-sterile only.

- Heat and cold resistant, recommended for temperatures from -80C to +120C
- Fits inside rim of raised-rim plate

AlumaSeal Sealing Film

Catalogue Number	Description	Pack Size
F-96-100	AlumaSeal 96 Sealing Films, Non-sterile	100
F-384-100	AlumaSeal 384 Sealing Films, Non-sterile	100

AlumaSeal® Roll

Adhesive PCR sealing foils on rolls for use with high-throughput automated microplate sealers.



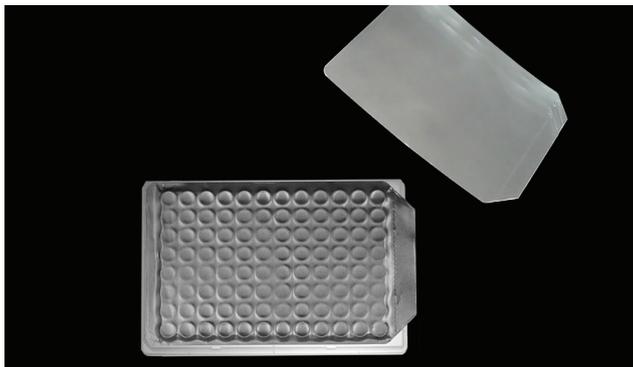
The Roll-Seal format provides reliable and efficient sealing at a lower cost per plate with minimal user intervention.

Robust static-free packaging provides protection during shipment and facilitates accurate alignment and adhesion.

AlumaSeal® Rolls

Catalogue Number	Description	Pack Size
LW2722	AlumaSeal® 100m Roll-Seal™ for Automation	Each

FoilSeal™



FoilSeal PCR features specially formulated adhesive that provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage. With a universal fit for all plates types (eg. Flat-top, raised-rim and non-skirted), the smaller dimensions and rounded corners result in no plate overhang for robotic applications.

FoilSeal's are made from a 50.8µm aluminium foil, with 36.8µm of acrylic adhesive. Each seals measure's 128mm by 78.3mm and has a single perforated end tab. Sealing area without end tab measures 118.1mm.

FoilSeal™ Sealing Film

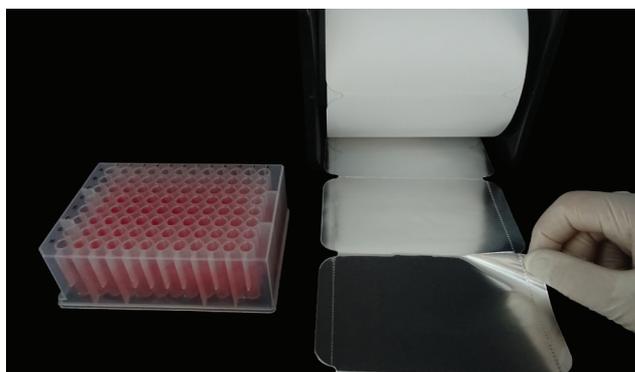
Catalogue Number	Description	Pack Size
LW2744	FoilSeal™ PCR plate seal	
LW2744S	FoilSeal™ PCR plate seal, Sterile	Each



FoilSeal™ RollMate™

Pre-scored seals in a convenient, easy to use roll format.

- An economical, efficient way to rapidly seal microplates; faster than applying single sheeted film
- Self-standing, non-slip supports hold pre-scored film roll securely in place for quick and easy dispensing
- Continuous backing liner can be torn off or fed directly into a waste basket for disposal
- Roll tension can be easily adjusted to user preference (e.g. loose, tight)
- High integrity packaging prevents damage during transit; poly bag eliminates dust and particulate contamination
- Dispenser is made from material which can be recycled



Application: Ideal for standard PCR, long-term storage, light sensitive assays and robotics.

Temperature Range: -80C to +120C

- Certified DNase- & RNase- free
- Excellent chemical resistance (e.g. DMSO)
- 50µm aluminium foil minimises shredding during removal; ideal for cold storage
- Conformable foil allows visual verification of seal security around each well
- Pierceable with a pipette tip or robotic probe for direct sample recovery
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage
- Removes easily and cleanly from plate surface

FoilSeal™ RollMate™

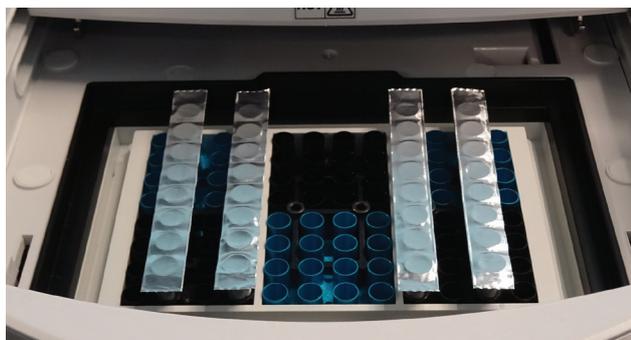
Catalogue Number	Description	Pack Size
F2-RL-500	FoilSeal RollMate 500 sheets per roll	Each



EZcap™ FoilStrips™

For sealing one 8-Well row of a 96-Well PCR plate or a single PCR 8-tube strip.

- An economical and more user-friendly alternative to strip-caps; no more sore thumbs and fingers guaranteed!
- Precision cut to a smaller dimension to seal one 8-Well row of a 96-Well PCR plate or a single PCR 8-tube strip
- Each sheet contains 8 sealing Strips on a continuous backing liner for ease of use
- Strips can be peeled individually or two-at-a-time for increased efficiency
- Strips can be used to selectively cover one row of a plate to prevent accidental pipetting or to re-seal rows that have been pierced
- Certified DNase- & RNase- free



Application: Ideal for standard PCR, storage (DMSO resistant), light sensitive assays and robotics

Temperature Range: -80C to +120C

- Excellent chemical resistance (e.g. DMSO)
- 50µm aluminium foil minimises shredding during removal
- Conformable foil allows visual verification of seal security around each well
- Pierceable with a pipette tip or robotic probe for direct sample recovery
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage
- Removes easily and cleanly from plate surfaces
- Features two end-tabs with perforations for ease of handling, application and removal

EZcap™ PCR FoilStrips™

Catalogue Number	Description	Pack Size
LW2737	EZcap PCR FoilStrips	300

PCR Plate Sealing Mats

This 96-Well silicon rubber plate sealing mat fits most 96-Well plates, and is suitable for pressure-fit lids. It can be autoclaved and re-used many times.



PCR Plate Sealing Mat

Catalogue Number	Description	Pack Size
LW2221	Sealing Mat for PCR Plates	50 (5 x 10)
LW2221-10	Sealing Mat for PCR Plates	10



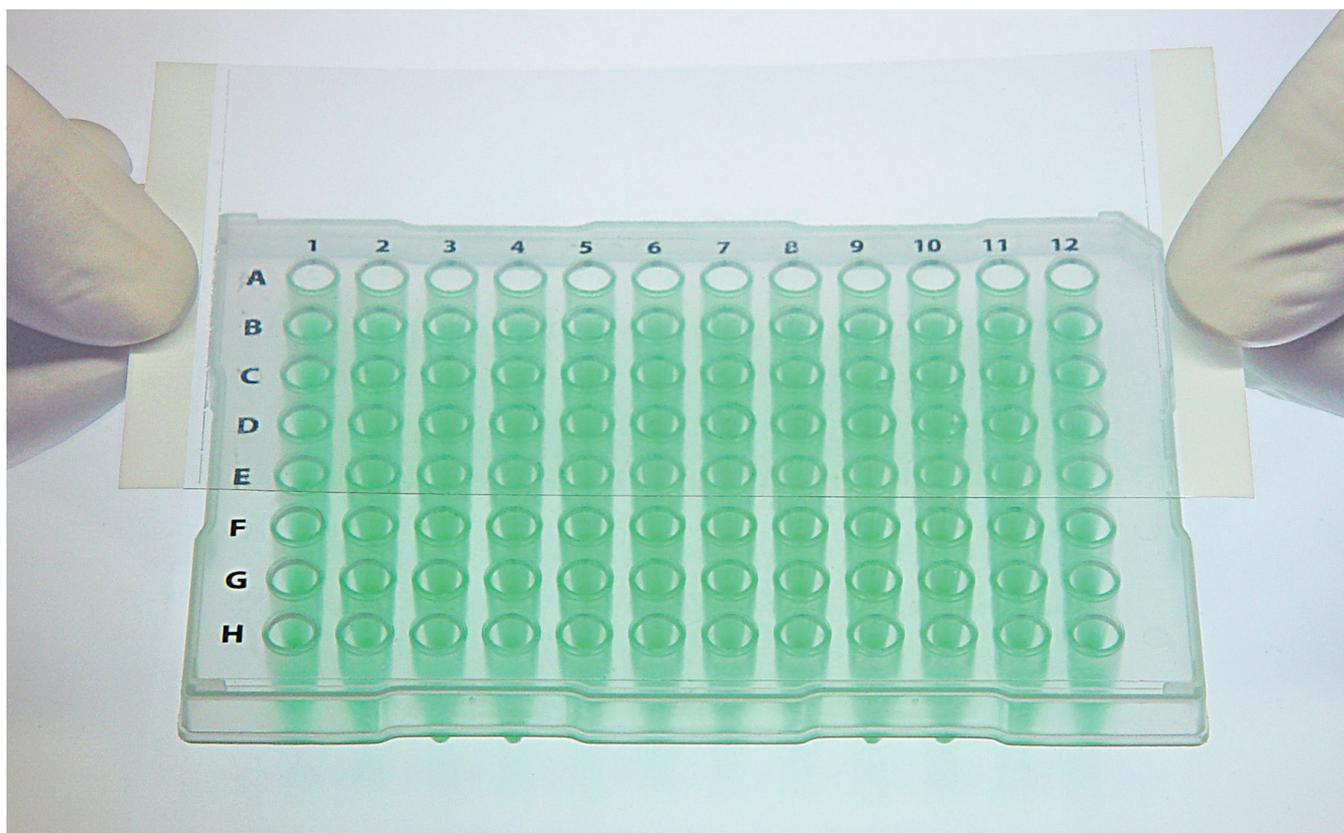
Adhesive Plate Seals for Protein Crystallography

ThermalSeal RTS™ sealing films are optically clear, with low autofluorescence, and are especially suited for real-time qPCR, storage, and protein crystallisation applications.

ThermalSeal RTS™

When pressed against the sealing surface, the inert encapsulated silicone adhesive is released to form the strongest available heat-resistant seal around each well on the plate. Adhesive on non-sealing areas of the film, such as directly over sample wells, remains encapsulated and inert. Sized to fit within the edges of raised-rim 96-Well plates, their consistent high optical clarity ensures reproducible, reliable, and consistent DNA amplification measurements and crystal detection.

- Non-tacky adhesive layer simplifies handling of film prior to sealing
- Heat resistant, recommended for temperatures from -70C to +100C
- Chemically inert; no extractables except at extreme pH
- DMSO resistant for HTS
- Available as individual sheets or on a 65m roll for HTS automated applications



ThermalSeal RTS™ Sealing Film		
Catalogue Number	Description	Pack Size
LW2790	ThermalSeal RTS Sealing Films, Non-sterile	100
LW2791	ThermalSeal RTS Sealing Films, Sterile	50
LW2724	ThermalSeal RTS 65m roll for automation	Each

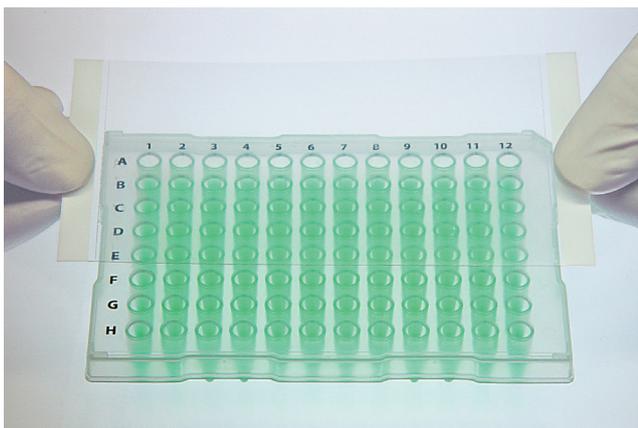
Adhesive Plate Seals - qPCR Optical Films

ThermalSeal sealing films combine an optically transparent polyester sealing film with a strong, ultra-smooth, non-absorbing, non-fluorescing medical-grade adhesive for superior performance in real-time PCR applications.

ThermalSeal RTS™

ThermalSeal RTS™ sealing films are optically clear, with low autofluorescence, and are especially suited for real-time qPCR, storage, and protein crystallisation applications.

When pressed against the sealing surface, the inert encapsulated silicone adhesive is released to form the strongest available heat-resistant seal around each well on the plate. Adhesive on non-sealing areas of the film, such as directly over sample wells, remains encapsulated and inert. Sized to fit within the edges of raised-rim 96-Well plates, their consistent high optical clarity ensures reproducible, reliable, and consistent DNA amplification measurements and crystal detection.



- Non-tacky adhesive layer simplifies handling of film prior to sealing
- Heat resistant, recommended for temperatures from -70C to +100C
- Chemically inert; no extractables except at extreme pH
- DMSO resistant for HTS
- Available as individual sheets or on a 65m roll for HTS automated applications

ThermalSeal RTS™ Sealing Film

Catalogue Number	Description	Pack Size
LW2790	ThermalSeal RTS Sealing Films, Non-sterile	100
LW2791	ThermalSeal RTS Sealing Films, Sterile	50
LW2724	ThermalSeal RTS 65m roll for automation	Each

ThermalSeal RT™

ThermalSeal RT™ sealing films combine an optically transparent polyester sealing film with a strong, ultra-smooth, non-absorbing, non-fluorescing medical-grade adhesive for superior performance in real-time PCR applications. In place of the customary paper backing, ThermalSeal RT™ sealing films have a plastic liner which is easily removed before use and contributes smoothness and extreme optical clarity to the adhesive. Dimensions are 79.4 x 142.9mm for sealing PCR plates. Length between the perforations with end tabs removed is 121.9mm.

- “Brilliant” ultra-high optical clarity
- Heat resistant, recommended for temperatures from -40C to +120C

ThermalSeal RT™ Sealing Film

Catalogue Number	Description	Pack Size
LW2786	50µm Thick Sealing Films, Non-Sterile	100

ThermalSeal RT2RR™

50µm polyester sealing films for real-time PCR with the same consistent ultra-high optical clarity as ThermalSeal RT™ sealing films. This gives more reproducible, reliable, and consistent DNA amplification measurements.

An inert, strong, temperature-resistant adhesive assures reliable sealing around each well. Two end tabs assist in positioning the sealing film. Easy removal of the end tabs at perforated boundaries prevents lifting and higher evaporation rates that can occur with sealing films that overlap the plate rim. Recommended for specific DNA sequence detection in clinical diagnostics, forensic science and basic research.

- Fit within plate rim to prevent evaporation due to sealing film lifting
- Ultra-high optical clarity
- Heat resistant, for temperatures from -40C to +120C

ThermalSeal RT2RR™ Sealing Film

Catalogue Number	Description	Pack Size
TS-RT2RR-100	ThermalSeal RT2RR 50-µm Thick Sealing Films, Non-sterile	100

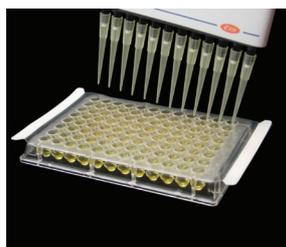
Adhesive Plate Seals for Short Term Storage, Incubation & ELISA

These sealing films are clear for colorimetric assays and minimise evaporation and well-to-well contamination. Ideal for short term incubation or storage applications.

Pierceable films should have an additional sealing film placed over the top if to be stored after processing.

EZ-Pierce™

Easily pierceable, 70µm thick, polyethylene with acrylic adhesive, EZ-Pierce™ sealing films allow direct sample recovery with single or multi-channel pipettors and robotic probes.



- Easily pierceable with pipette tips or robotic probes
- Chemical resistant
- Functional temperature range -40C to +90C

Completing application of sealing films by pressing with the accessory plate roller assures a secure uniform seal around all wells.

EZ-Pierce™ Sealing Film

Catalogue Number	Description	Pack Size
EZP-100	EZ-Pierce™ Sealing Films, Non-Sterile	100
EZPS-25	EZ-Pierce™ Sealing Films, Sterile	50

General Purpose

General Purpose polypropylene plate sealing films offer superior barrier properties to minimise evaporation and prevent well-to-well contamination.

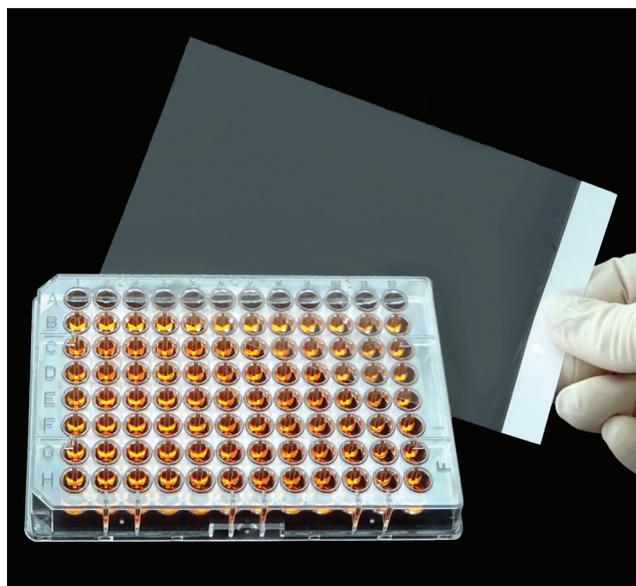


General Purpose Sealing Film

Catalogue Number	Description	Pack Size
LW2740	General Purpose polypropylene plate sealing films	100
LW2740S	General Purpose polypropylene plate sealing films, Sterile	100

ValueSeal™

ValueSeal™ plate seal is a more cost-effective alternative to protect samples from evaporation, external contamination, dust and particulates.



ValueSeal™ Sealing Film

Catalogue Number	Description	Pack Size
LW2742	ValueSeal™ plate seal	100

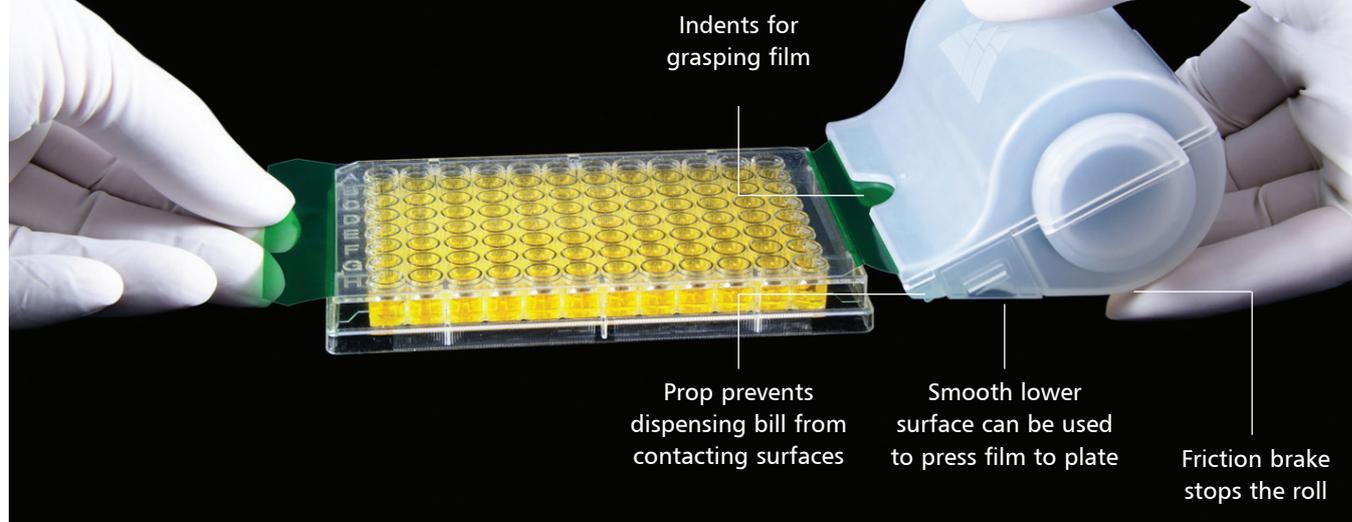


SealMate™ System

“a revolutionary way of applying sealing films to microplates”

It's easy!

1. Pull out one seal
2. Apply to plate
3. Tear at the perforation
4. Seal with the bottom surface of the dispenser



- Convenient, easy film application for microplates
- Three times faster than sheet films
- Inexpensive applicator
- Reduced waste; no protective backing to remove and discard
- Smooth lower surface for pressing film to the plate
- Available sterile and non-sterile
- SealPlate films for ELISA, EIA, and similar assays

Excel Scientific's unique SealMate™ system provides a convenient new method for sealing standard-format microplates with adhesive films. The system includes a moulded polypropylene dispenser with a hinged "clamshell" design and sealing films supplied in a novel sheeted-roll configuration.

The SealMate™ dispenser provides a protective enclosure for films on the roll prior to dispensing. Individual films on the roll are delineated by non-adhesive colour bands that serve as end-tabs for positioning the films on the microplates.

Each non-adhesive band contains two perforations, the first of which, bounded by a small indent at the edges, tears easily to separate the sheet being dispensed from the next sheet on the roll. The second perforation permits the end-tab to be removed from the plate once the film has been applied.

These unique features contribute to ease and usability:

- The SealMate™ system reduces laboratory waste because the film is rolled on itself with no extra paper or plastic liner to be discarded before sealing the plate
- Each SealPlate roll contains films to cover 100 microplates

SealMate™ System

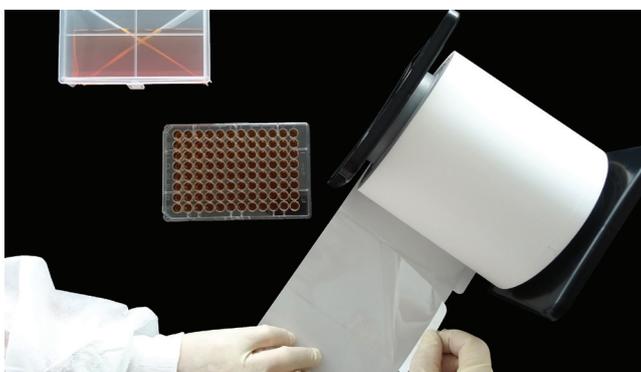
Catalogue Number	Description	Pack Size
LW2700	SealPlate Starter Kit, Non-Sterile - SealMate Dispenser + 2 Rolls of SealPlate Films, Non-Sterile	1 Kit
LW2702	SealPlate Refill Roll, Non-Sterile	2
LW2710	SealPlate Starter Kit, Non-Sterile - SealMate Dispenser + 2 Rolls of SealPlate Films, Sterile	1 Kit
LW2712	SealPlate Refill Roll, Sterile	2

Sterile kits and refills also available - see our website

SealPlate® RollMate™

Pre-scored seals in a convenient, easy to use roll format.

- An economical, efficient way to rapidly seal microplates; faster than applying single sheeted film
- Self-standing, non-slip supports hold pre-scored film roll securely in place for quick and easy dispensing
- Continuous backing liner can be torn off or fed directly into a waste basket for disposal
- Roll tension can be easily adjusted to user preference (e.g. loose, tight)
- High integrity packaging prevents damage during transit; poly bag eliminates dust and particulate contamination
- Dispenser is made from material which can be recycled



Application: Ideal for ELISA, incubation and storage

Temperature Range: -40C to +120C

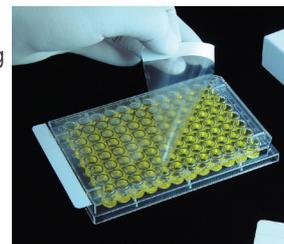
- SealPlate film minimises evaporation, reduces cross-contamination and prevents spillage
- Eliminates the “edge effect”, excess evaporation in the outside wells, which can occur with other films and plate lids
- Useful as a simple cover to protect samples from external contamination, dust and debris
- 50µm rigid polyester film features good clarity and easy handling
- Single, writable end-tab for easy application and plate identification

SealPlate® RollMate™

Catalogue Number	Description	Pack Size
SP2-RL-500	SealPlate RollMate 500 sheets per roll	Each

SealPlate®

50µm thickness polyester sealing films minimise evaporation during incubation, prevent spillage and contamination between wells, and provide a secure seal, not just a cover.



Secure sealing of all wells eliminates “edge effects” in sensitive ELISA assays. SealPlate® sealing films can also be used with tissue-culture plates for short-term storage, incubation, and containment of biohazards. SealPlate® sealing films are non-pierceable. ThinSeal™ polyester sealing films are just 25µm thick, clearer and marginally pierceable.

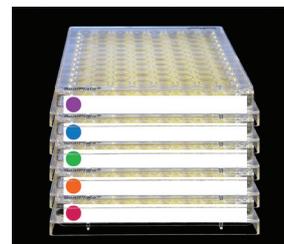
- Functional temperature range from -40C to +120C
- Available sterile and non-sterile

SealPlate® Sealing Film

Catalogue Number	Description	Pack Size
LW2770	SealPlate® Sealing Films, Non-Sterile	100
LW2771	SealPlate® Sealing Films, Sterile	100
LW2774	ThinSeal™ Sealing Films, Non-Sterile	100
LW2775	ThinSeal™ Sealing Films, Sterile	100

SealPlate® ColorTab™

Applicable for the same incubations as standard SealPlate® but these sealing films are supplied with five dot colours (green, lavender, orange, red, blue) in non-sterile single-colour packs of 100 and in assorted packs of 50 containing five individual-colour packs of 10, non-sterile or sterile.



- Colour dots and white labelling area on end tabs
- Second tab can be separated for lab-notebook insertion
- End tabs can be left on plate even if centre of sealing film is removed

U.S. and other patents pending.

SealPlate® ColorTab™ Sealing Film

Catalogue Number	Description	Pack Size
SP-IDG-100	SealPlate® ColorTab™ Sealing Films, Green	100
SP-IDL-100	SealPlate® ColorTab™ Sealing Films, Lavender	100
SP-IDO-100	SealPlate® ColorTab™ Sealing Films, Orange	100
SP-IDR-100	SealPlate® ColorTab™ Sealing Films, Red	100
SP-IDB-100	SealPlate® ColorTab™ Sealing Films, Blue	100
SP-IDA-10	SealPlate® ColorTab™ Sealing Films, Assorted	50

SealPlate® MiniStrips™

Identical to SealPlate® films and can be used for the same incubations, but designed for sealing only one or two 8-Well rows at a time on either strip-well or standard plates whenever rows must be selectively protected or accessed.



- Can be used as secondary seal to cover sealing films that have been pierced
- Two tabs on each strip for easy application and removal
- Perforated tabs can be removed or sealed around plate edge

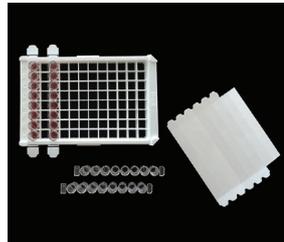
(NOTE: Spacing does not permit simultaneous application of more than two strips.)

SealPlate® MiniStrips™ Sealing Film

Catalogue Number	Description	Pack Size
LW2772	SealPlate® MiniStrips™ Sealing Films, Non-Sterile	200
SPS-2X8-50	SealPlate® MiniStrips™ Sealing Films, Sterile	200

EZcap™ General Purpose FilmStrips™

EZcap™ General Purpose FilmStrips™, for sealing a single 8-Well row of a 96-Well plate or an ELISA strip-well plate.



- Certified DNase- & RNase- free
- Each sheet contains 8 FilmStrips on a continuous backing liner for ease of use
- FilmStrips can be peeled and applied individually or two-at-a-time for increased efficiency
- 50µm polypropylene film features good clarity and easy handling
- Specially formulated adhesive provides an excellent seal to minimise evaporation, reduce cross-contamination and prevent spillage

EZcap™ General Purpose FilmStrips™

Catalogue Number	Description	Pack Size
LW2738	EZcap™ General Purpose FilmStrips™	400
LW2739	EZcap™ General Purpose FilmStrips™ Sterile	400

Adhesive Plate Seals for Sonication

X-Pierce pre-cut sealing films are also recommended for protection of samples in 96-Well plates from splash-out during sonication using Microtips and Multi-Element Probes with ultrasonic apparatus available from Sonics & Materials, Inc.

X-Pierce™ Pre-cut Pierceable

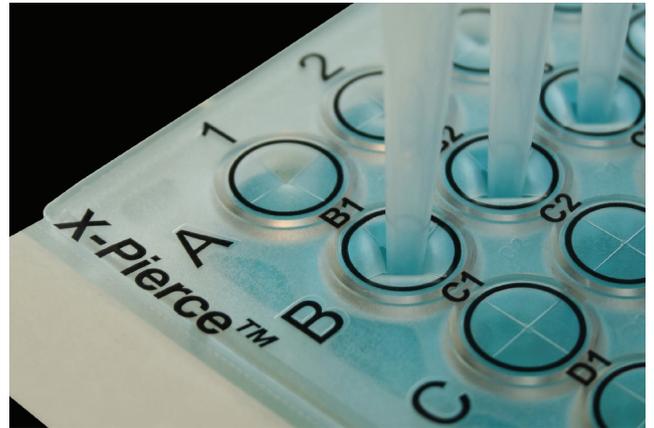
X-Pierce™ sealing films are 89µm thick vinyl with a 18µm thick adhesive layer, designed for temporary protection from contamination and evaporation for samples in 96-Well plates.



For long-term protection after sampling, a continuous sealing film should be applied as a second layer.

Sterile product is packaged in 100µm tamper-evident bags of 25.

- Sealing film reseals for continued sample protection after sampling
- Temperatures -40C to +90C
- Special hairline X-cuts and thin adhesive prevent fouling or occlusion of probes and tips



X-Pierce™ Pre-cut Pierceable Sealing Film

Catalogue Number	Description	Pack Size
LW2788	X-Pierce™ Sealing Films, Non-Sterile	100
XPS-25	X-Pierce™ Sealing Films, Sterile	50 (2 x 25)

Sealing Film Accessories

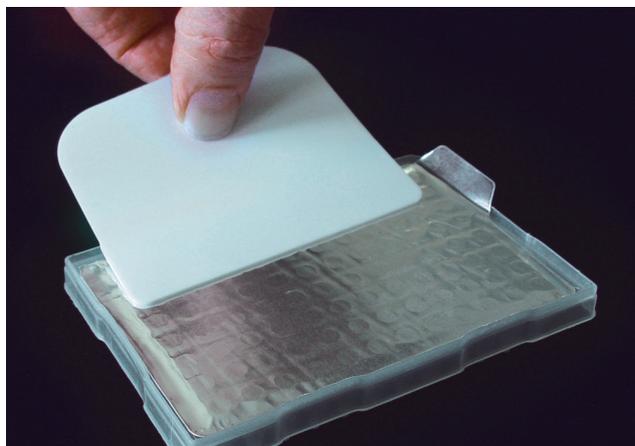
Plate Roller



Completing application of sealing films by pressing with the accessory plate roller assures a secure uniform seal around all wells on 96-Well, 384-Well, and 1536-Well plates.

Plate Roller		
Catalogue Number	Description	Pack Size
RL-PLT-01	Accessory: Plate Roller	1

Film-Sealing Paddles



Alternative to plate roller for pressing sealing film to assure a secure uniform seal around all wells on 96-Well, 384-Well, and 1536-Well plates. Better than plate roller for use with raised-rim plates as the paddle fits within the rim of the plate.

Film-Sealing Paddles		
Catalogue Number	Description	Pack Size
PDL-5	Film-Sealing Paddles, Non-sterile	50

Specialist Custom Plate Seals Design, Manufacturing and Packaging for OEM

For special applications, diagnostic kit production etc.

- Indexed roll formats for automation
- Speciality materials and adhesives
- Custom die-cut shapes and sizes
- Custom printing, packaging and labelling

Quality Assured

- Stringent QC procedures for all products
- Product consistency lot-to-lot
- Certificates of compliance and sterility



Contact Alpha Laboratories for more information or a quotation

Organise Your Samples Versatile Racks for Laboratory and Freezer Storage

Our practical, space saving racks help you organise precious bench and freezer space, ensuring your valuable samples are safely stored and easily accessible.

We have versatile storage solutions for a full range of PCR tubes, microtubes, cryovials, 15ml and 50ml tubes. A choice of attractive colours gives you the option of colour coding your storage for additional convenience.

Specialist racks for PCR help with workflow and our Isofreeze® cooled racks ensure temperature sensitive samples remain protected when out on the bench.



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MultiRack™



The MultiRack™ is available in three models to accommodate a full range of laboratory test tubes and centrifuge tubes up to 30mm in diameter. Made of highly resistant acetal polymer, it will not shatter or stain in contact with most laboratory chemicals. It also has no coating that can chip, peel or rust in a water bath.

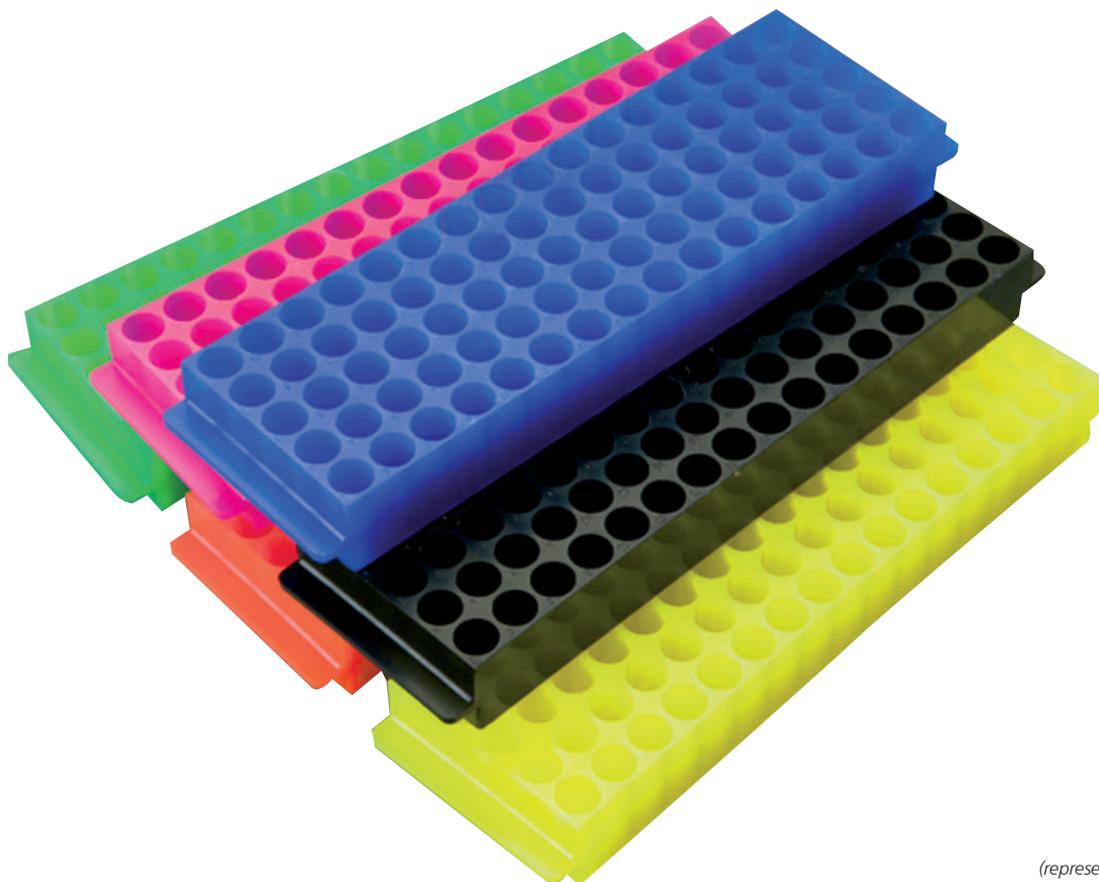
The MultiRack™ is made of three tiers to facilitate the insertion and stability of tubes. The base tier has rounded Wells with drain holes. Convenient handles on each side of the rack will ensure a safe grip when carrying it around. Interlocking feet allow stacking. It is also autoclavable at 121C for 20 minutes.

- Lightweight and stackable – saving space
- Ideal for incubators, refrigerators, freezers, fume hoods, bench-tops
- Submersible (sinks) and maintains stability
- For tubes up to 13mm, up to 16mm and up to 30mm
- Dimensions 293 x 115 x 65mm
- Available in five colours

MultiRack™

Catalogue Number	Description	Pack Size
13mm		
LW6113B	13mm MultiRack 84 Position, Blue	2
LW6113G	13mm MultiRack 84 Position, Green	2
LW6113L	13mm MultiRack 84 Position, Lilac	2
LW6113O	13mm MultiRack 84 Position, Orange	2
LW6113Y	13mm MultiRack 84 Position, Yellow	2
16mm		
LW6116B	16mm MultiRack 60 Position, Blue	2
LW6116L	16mm MultiRack 60 Position, Lilac	2
LW6116O	16mm MultiRack 60 Position, Orange	2
LW6116Y	16mm MultiRack 60 Position, Yellow	2
30mm		
LW6130B	30mm MultiRack 18 Position, Blue	2
LW6130G	30mm MultiRack 18 Position, Green	2
LW6130L	30mm MultiRack 18 Position, Lilac	2
LW6130O	30mm MultiRack 18 Position, Orange	2
LW6130Y	30mm MultiRack 18 Position, Yellow	2

80-position Rack

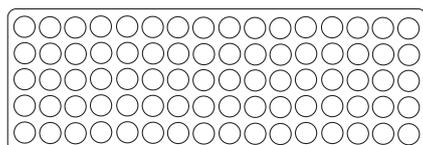


(representative image)

Accommodating a surprisingly large range of tubes, this rack has a multitude of uses.

Suitable for efficient freezer storage of microtube samples and manufactured from virgin polypropylene, it is autoclavable and has a conical base to the tube positions to provide a greater degree of support.

Frosted writing areas, in combination with the assorted colours, give you a choice of identification and marking possibilities.



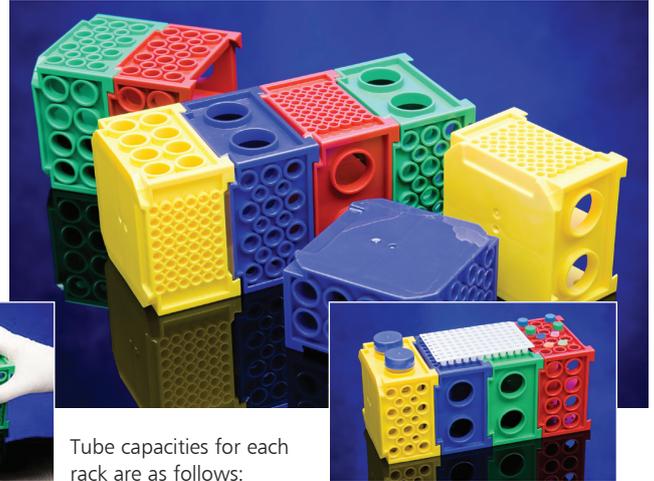
80-position Rack

Catalogue Number	Description	Dimensions	Pack Size
LW6220AS	80-Position Rack, Assorted	227 x 66 x 27 (W x L x H)	5 racks
LW6220	80-Position Rack, Natural	227 x 66 x 27 (W x L x H)	5 racks

Combiracks

Twist-Lock Combirack

The Combirack Twist-Lock comes as a set of 4 brightly coloured, four-sided racks, which can twist and lock together in any arrangement to suit the user. Each rack can hold different sized tubes on each side and can be mixed in different combinations to provide a workstation suitable for many applications including PCR.



Tube capacities for each rack are as follows:

- Made from durable polypropylene
- Single rack dimensions: 108 x 108 x 69mm
- Temperature range: -80 to 121°C
- Autoclavable at 121°C

Combirack Twist-Lock

Catalogue Number	Description	Pack Size
LW5850	Combirack Twist-Lock (Set of 4 racks)	1

Tube Type	Dimension	Quantity
50ml Tube	Max 30mm diameter	2
15ml Tube	Max 18mm diameter	8
1.5 or 2.0ml Microtubes	Max 11mm diameter	12
0.5ml Microtube	Max 8mm diameter	6
PCR Plates (unskirted or semi-skirted 96-Well)		1 fits across 2 racks
8-tube PCR Strips		6
12-tube PCR Strips		8 strips fit across 2 racks
0.2ml PCR Tubes		48

Four-Way Combirack

The rugged polypropylene construction, the bright colours and the patented design, make the Four-Way Combirack a highly worthwhile addition to your laboratory.

All Four-Way Combiracks are autoclavable and are suitable for use in ultra-low temperature freezers (-90°C).

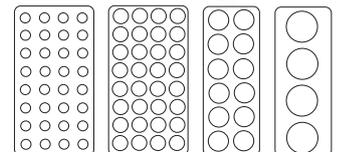
The system can interlock giving an instantly expandable racking system. Simply press two or more of the racks together to increase the tube capacity and to create your custom laboratory rack.

Four-Way Combirack's small footprint makes these handy racks convenient on the bench, under the hood and in a wide range of other situations.

- Interlocking and expandable racking system
- Fits 50ml, 15ml, 5.0ml, 2.0ml, 1.5ml and 0.5ml tubes
- Suitable for ULT freezer use (-90°C)

create your custom laboratory rack

expandable racking system



Tube Type	Diameter	No of Tubes
50ml	30mm	4
15ml	16-17mm	12
5.0ml	16-17mm	18
1.5ml - 2.0ml	12mm	32
0.5ml	8mm	32

Four-Way Combirack

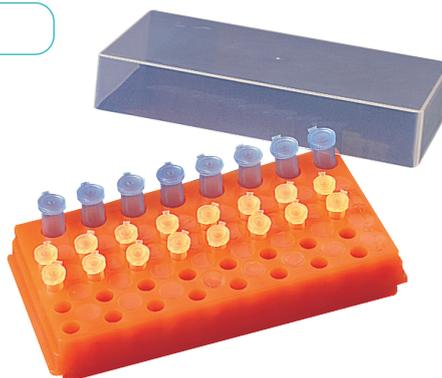
Catalogue Number	Description	Dimensions	Pack Size
LW5840AS	4-Way Combirack, Assorted	171 x 54 x 91mm (L x W x H)	5 racks
LW5840	4-Way Combirack, Natural	171 x 54 x 91mm (L x W x H)	5 racks
FT1850AS	4-Way Combirack, Assorted	171 x 54 x 91mm (L x W x H)	4 racks

32-place Combirack Junior

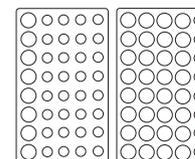
The Combirack Junior is perfect for use as a working rack during sequencing procedures. One side has 32 Wells for 0.5ml type tubes with 8 larger positions for 1.5 or 2.0ml tubes. The other side has the opposite configuration: 32 positions for 1.5ml or 2.0ml tubes with 8 smaller positions.

Both sides have moulded indexing.

- Ideal for sequencing procedures
- Fits 0.5ml, 1.5ml or 2.0ml tubes
- Moulded indexing for your convenience
- Lid included to protect your samples



reversible
121°C



32-Place Combirack Junior

Catalogue Number	Description	Dimensions	Pack Size
LW5440AS	Combirack Junior, Assorted	169 x 81 x 50mm (W x L x H) lid on	5 racks

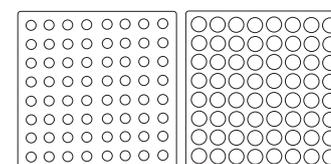
64-place Combirack

64-place Combirack has 8 rows and 8 columns in a 129mm square making this a great replacement for card or metal racks. Moulded indexing is featured for easy reference.

- Great replacement for card or metal racks
- Fits 0.5ml, 1.5ml or 2.0ml tubes
- Moulded indexing for your convenience
- Lid included to protect your samples



reversible
121°C



64-Place Combirack

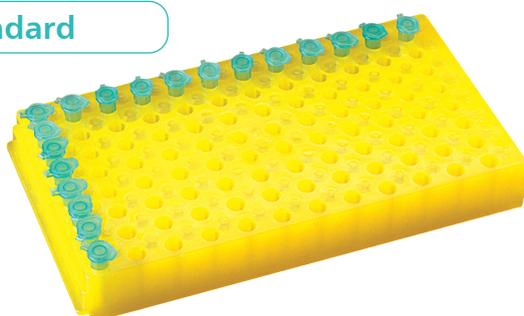
Catalogue Number	Description	Dimensions	Pack Size
LW5640AS	Combirack Junior with lid, Assorted	129 x 129 x 44mm (W x L x H) lid on	5 racks
LW5640	Combirack Junior with lid, Natural	129 x 129 x 44mm (W x L x H) lid on	5 racks



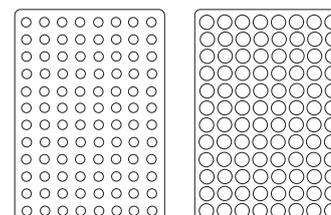
96-place Combirack Standard

The most popular Combirack!
8 rows and 12 columns with moulded indexing for easy reference.

- Layout corresponds to 96-Well plates
- Fits 0.5ml, 1.5ml or 2.0ml tubes
- Moulded indexing for your convenience
- Optional lid can be ordered separately



reversible
121°C



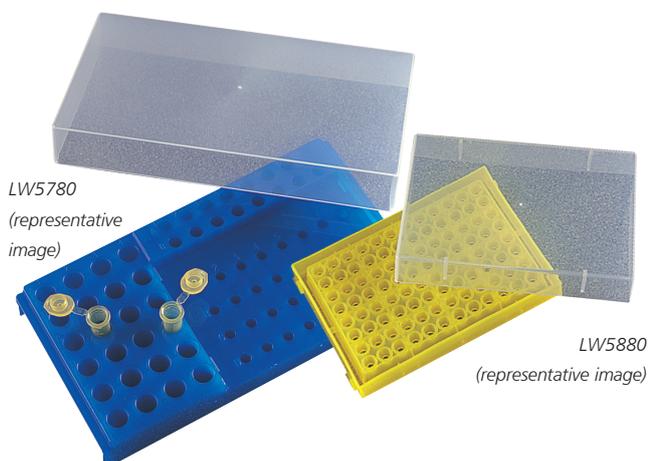
96-Place Combirack

Catalogue Number	Description	Dimensions	Pack Size
LW5220AS	Combirack Standard. 96, Assorted	212 x 113 x 50mm (W x L x H) lid on	5 racks
LW5220	Combirack Standard. 96, Natural	212 x 113 x 22mm (W x L x H) lid off	5 racks
LW5122	Lid for Standard Combiracks, Natural	206 x 118 x 29mm (W x L x H)	5 lids



PCR Workstation and 96-Well Racks

These popular racks and workstations offer the perfect solution to PCR set-up whether you are using tubes, tube strips or plates. All are made from durable polypropylene and have sturdy lids. They are perfect for transporting samples and reactions between preparation, thermal cycling and post-PCR procedure areas. They also come in a wide range of colours!

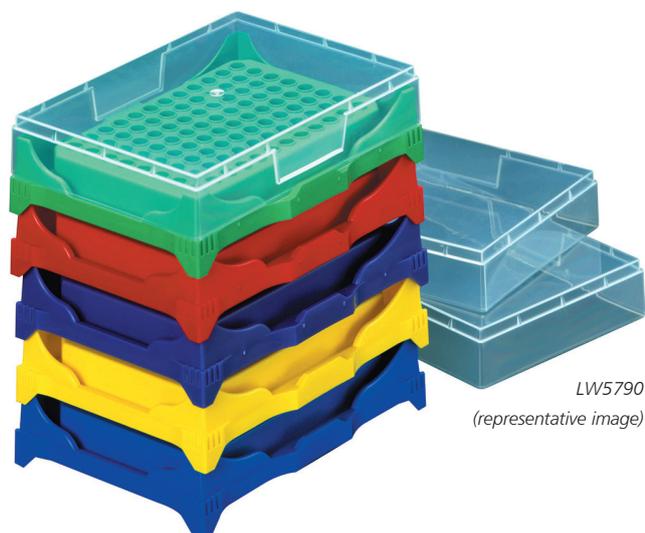


LW5780
(representative image)

LW5880
(representative image)



LW5890
(representative image)



LW5790
(representative image)

The 96-position rack (LW5880) is designed to be used as a working or storage rack for pre- and post-PCR sample processing. The rack can be clipped into the PCR workstation (LW5780) accommodating 0.2, 0.5 and 1.5ml tubes.

96-Well Rack and Workstation

Catalogue Number	Description	Pack Size
LW5880AS*	0.2ml PCR Tube Rack, assorted colours	5
LW5780*	PCR Workstation	1

* Single colours available. Please see our website.

Interlocking 96-Well PCR Rack

This convenient space-saving rack was designed for storing and working with PCR samples. The racks can be horizontally attached to each other to build any configuration you desire. With the lid on, they are easily stackable.

Interlocking 96-Well PCR Rack

Catalogue Number	Description	Pack Size
LW5890AS*	0.2ml Interlocking 96-Well PCR Rack, assorted colours	5

* Single colours available. Please see our website.

Stacking 96-Well PCR Rack

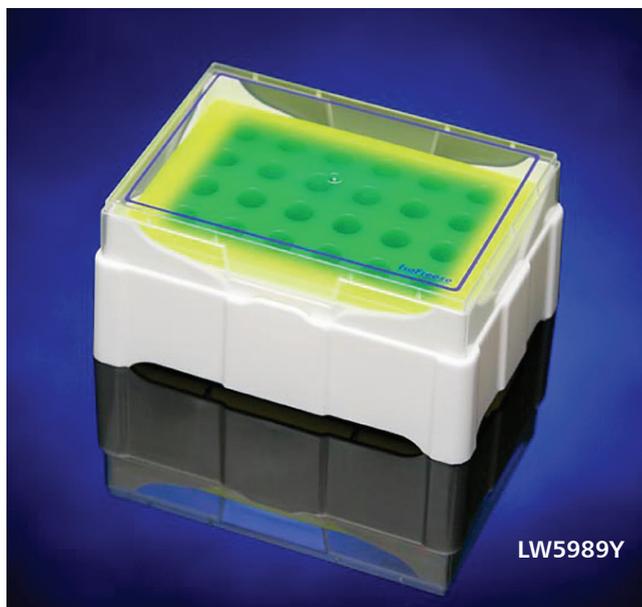
The stacking PCR rack will accommodate all different types of 0.2ml PCR consumables, including tubes and fully-skirted plates. The unique feet provide a stable platform and enable stacking with or without the lid.

Stacking 96-Well PCR Rack

Catalogue Number	Description	Pack Size
LW5790	Stacking 96-Well PCR Rack, assorted colours	5

IsoFreeze® PCR: Plate, Strip and Tube Chiller

Changes Colour with Temperature!



Bring the fridge to your bench in style with IsoFreeze® gel-filled racks. IsoFreeze® colour change racks dramatically change to a contrasting colour at 7C indicating when your samples start to warm up. The racks can keep samples cool for over 3 hours and eliminate the need for an ice bucket and the mess it can cause.

Now in three different formats:

- IsoFreeze® MCT accommodates 24 tubes of either 0.5, 1.5, 2.0ml snap-top or screw-cap style
- IsoFreeze® PCR accommodates all 0.2ml tubes, strip-tubes and PCR plates up to 96-Well
- IsoFreeze® PCR SBS has an SBS footprint so is ideal for your automated system

IsoFreeze® Colour Change Racks

Catalogue Number	Description	Pack Size
LW5989P	IsoFreeze MCT Rack, Purple to Pink	1
LW5989Y	IsoFreeze MCT Rack, Green to Yellow	1
LW5990P	IsoFreeze PCR Rack, Purple to Pink	2
LW5990Y	IsoFreeze PCR Rack, Green to Yellow	2
LW5991P	IsoFreeze PCR SBS Rack, Purple to Pink	2
LW5991Y	IsoFreeze PCR SBS Rack, Green to Yellow	2

IsoFreeze® Flipper

IsoFreeze® Flipper provides consistent thermal protection for extended periods.

- White unit maintains samples at 0C for over 5 hours
- Blue unit maintains samples between -10 and -20C for up to 3 hours
- Fits 0.5ml or 1.5/2.0ml tubes

IsoFreeze® Flipper

Catalogue Number	Description	Pack Size
PC40260	IsoFreeze Flipper Rack, White, 0C	1
PC40270	IsoFreeze Flipper Rack, Blue, -20C	1



Freezer Racks

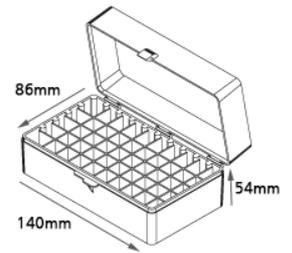
50-position Freezer Rack

This smaller format rack is ideal for limited storage space.

It has a tough, hinged locking lid and a frosted writing panel on the front, which provides a convenient labelling option.

In addition, these racks can be autoclaved and are suitable for use in freezers as cold as -90C.

- Temperature range -90C to +120C
- Hinged lid
- 50 x 1.5/2.0ml microtubes, or 1.2ml cryovials



50-position Freezer Rack

Catalogue Number	Description	Dimensions	Pack Size
LW5725AS	50-Position Freezer Rack, Assorted	140 x 86 x 54mm (W x L x H)	5 racks
LW5725N	50-Position Freezer Rack, Natural	140 x 86 x 54mm (W x L x H)	5 racks

100-position Freezer Rack

With the same features as the 50-Position Freezer Rack, this provides secure storage for larger sample throughput applications.

- Temperature range -90C to +120C
- Hinged lid
- 100 x 0.5/1.5/2.0ml microtubes, or 1.2ml cryovials
- Available in black for light sensitive samples



100-position Freezer Rack

Catalogue Number	Description	Dimensions	Pack Size
LW5750AS*	100-Position Freezer Rack, Assorted	142 x 142 x 54mm (W x L x H)	5 racks
LW5750N	100-Position Freezer Rack, Natural	142 x 142 x 54mm (W x L x H)	5 racks

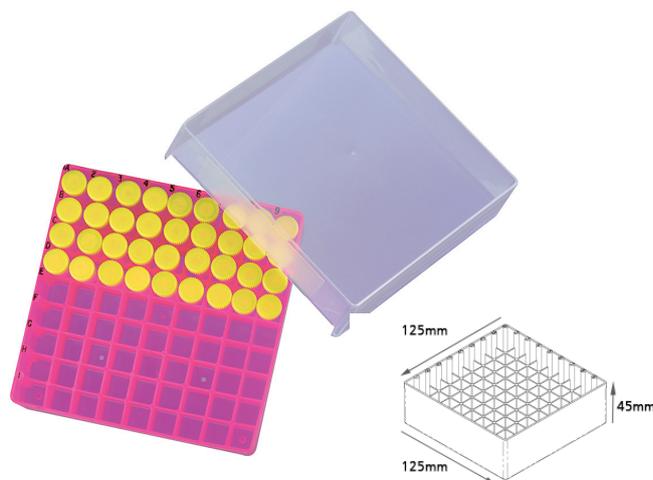
* Single colours available. Please see our website.

81-position Freezer Rack

A great replacement for cardboard freezer-boxes. The base is available in various colours and the push on lid is clear to allow easy sample viewing, with two frosted writing panels. Clear marked indexing allows fast identification and location of your sample tubes.

Now also available as a free-form box without divisions for storage of various sized tubes and storage vessels.

- 81 x 1.5/2.0ml microtubes, or 1.2ml cryovials
- Temperature range -90C to +120C
- Lift-off clear lid



81-position Freezer Rack

Catalogue Number	Description	Dimensions	Pack Size
LW5700	81-Position Freezer Rack with Lid, Natural	125 x 125 x 45 mm (L x W x H) lid on	5 racks
LW5700AS*	81-Position Freezer Rack with Lid, Assorted	125 x 125 x 45 mm (L x W x H) lid on	5 racks
LW5710	Free-form Freezer Box with Lid, Natural	125 x 125 x 45 mm (L x W x H) lid on	5 boxes

* Single colours available. Please see our website.

15ml/50ml Freezer Racks

A robust and durable alternative to Styrofoam or card racks for 15ml or 50ml tubes. The indexed grid together with the clear lid provide you with ease of use in tube identification and location. To complement this further, the racks have two opposing-face, write-on surfaces, and a pull tab to aid removal from the freezer.

- 36 x 15ml tubes or 16 x 50ml tubes
- Maximum tube diameter 18mm for 15ml tubes and 30mm for 50ml tubes
- Stamped indexing
- Temperature range -90C to +121C
- Maximum tube height 121mm



15ml/50ml Freezer Racks

Catalogue Number	Description	Dimensions	Pack Size
LW5760	15ml Freezer Rack with Lid, Green	144 x 144 x 127 (W x L x H) lid on 144 x 144 x 102 (W x L x H) lid off	2 racks
LW5740	50ml Freezer Rack with Lid, Blue	144 x 144 x 127 (W x L x H) lid on 144 x 144 x 102 (W x L x H) lid off	2 racks

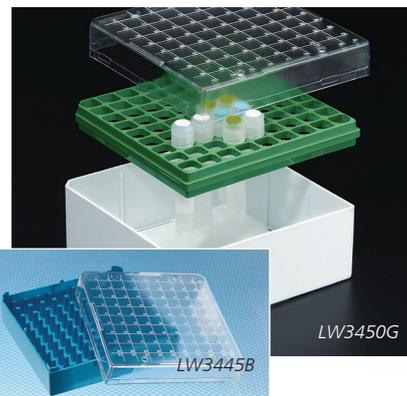
Cryogenic Storage

Cryoboxes

Made of extra-strong polycarbonate, these durable cryogenic storage boxes are designed to be used at temperatures between -196C and +121C. Three different models are available to accommodate 25, 81 or 100 cryogenic vials from 1.2 to 5ml.

A transparent cover allows the user to see the contents of the box and is keyed to the base to prevent misalignment. Printed with a series of squares (numbered from 1 to 25, 1 to 81 or 1 to 100) the surface accepts writing with markers, facilitating inventory control.

The 25 and 81 place Cryoboxes have unique coloured plastic grids to separate the cover from the base. For 100-place boxes, a coloured base instead of a grid is used. An innovative vial-picker is supplied with each storage box for quick removal of vials.



- Stackable
- Four colours available for better colour-coding
- Drain-holes under base
- Made to fit metal racks
- Air-vents minimise condensation
- Temperature range -196C to +121C
- Vials visible through transparent cover

Cryoboxes		Dimensions	Pack Size
Catalogue Number	Description		
LW3455B*	25 Position Cryobox 1.0 - 2.0ml Vials, Blue	76 x 72 x 52mm	8 boxes
LW3440B*	81 Position Cryobox 1.0 - 2.0ml Vials, Blue	133 x 133 x 52mm	4 boxes
LW3450B*	81 Position Cryobox 3.0 - 5.0ml Vials, Blue	133 x 133 x 95mm	5 boxes
LW3445B*	100 Position Cryobox 1.0 - 2.0ml Vials, Blue †	133 x 133 x 52mm	4 boxes

* Other colours available. Please see our website. † Only suitable for internally threaded cryovials

Cryogenic Vial Workstation

Made from durable polypropylene, each rack will securely hold up to 50 vials.

Each Well houses an integral locking ring that couples with the locking base of all our free-standing cryogenic vials to prevent it from rotating when unscrewing the cap – perfect for when your other hand has a pipette in it!



- Anti-skid rubber feet for safety
- 50 alpha-numerically indexed vial positions
- Tough polypropylene construction ensures durability
- Strong handles make racks easy and safe to carry



Cryogenic Vial Workstations

Catalogue Number	Description	Pack Size
LW3400B	Cryogenic Vial Workstation, Blue	4
LW3400R	Cryogenic Vial Workstation, Red	4

Cryogenic Vial Storage Canes



These strong, durable storage canes are made from aluminium and can accommodate up to five 1.2 or 2.0ml internally threaded cryovials. They allow convenient storage in liquid nitrogen vessels such as Dewar flasks.

Cryogenic Vial Storage Canes

Catalogue Number	Description	Pack Size
LW3430	Storage Cane, 290mm long	12

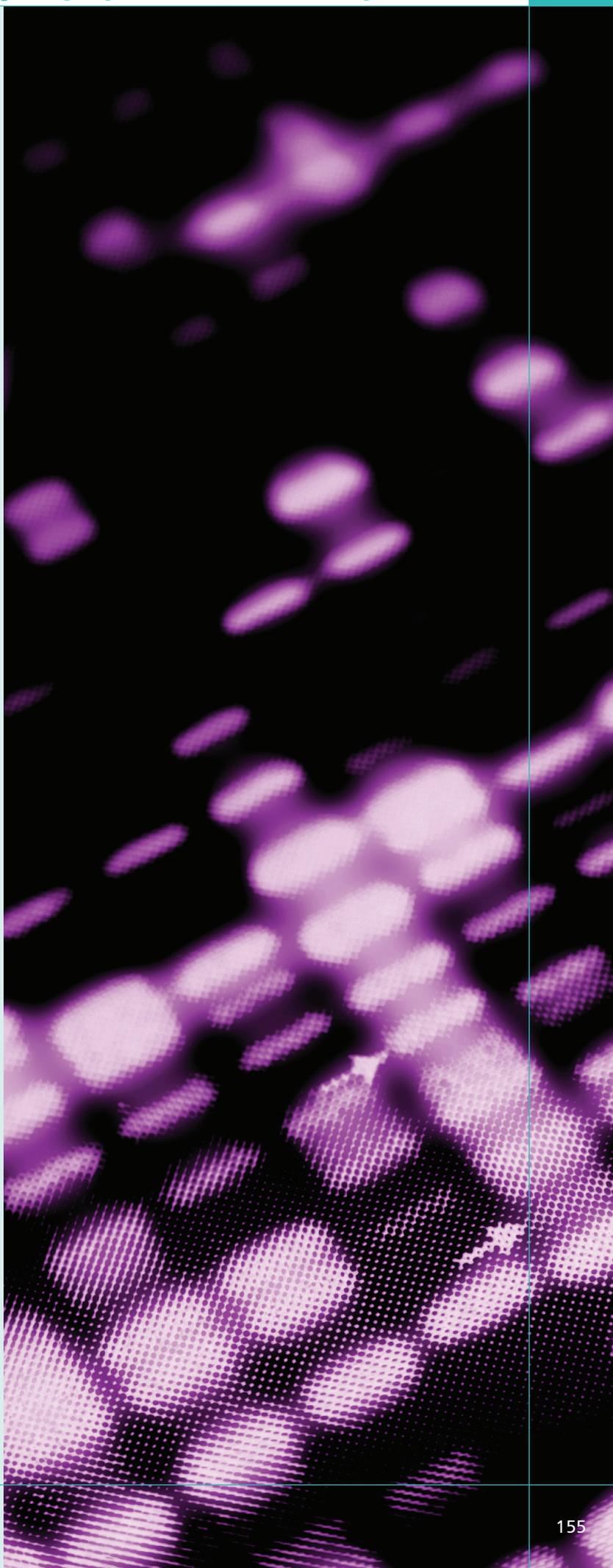
Clearly Better Resolution

The Alpha Laboratories Clarit-E® range of innovative electrophoresis equipment continues to expand, providing you with a wide choice of tools to suit your separation needs.

Horizontal gel tanks in a variety of sizes offer the ultimate level of flexibility and the vertical modular systems, provide a complete solution for protein work.

Power supplies, gel documentation systems, blotting, plus more specialised equipment, enhance the range with the ability to support most applications.

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Vertical Gel Systems	166-174
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Modular Systems	171-172
Blotting Systems	173-175
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Transilluminators	177
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Clarit-E[®]

Horizontal Gel Systems clearly better resolution.

- **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 the buffer chamber
- **Multiple Gel Trays** – eliminate the need for additional gel tanks

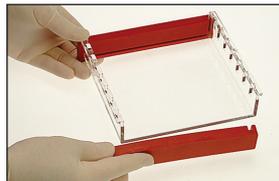
Easy Click Lid Removal



Cassette Type Electrodes can be easily replaced by the user



"Plug and go" gel casting



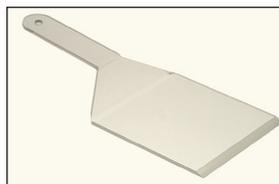
Casting dams allow gels to be rapidly cast externally while the Clarit-E™ unit is in use for gel running.



Flexicasters allow the casting of varying gel lengths simply by locking the moveable dam. Adjustable feet and level bubble allow gels of uniform thickness to be poured.

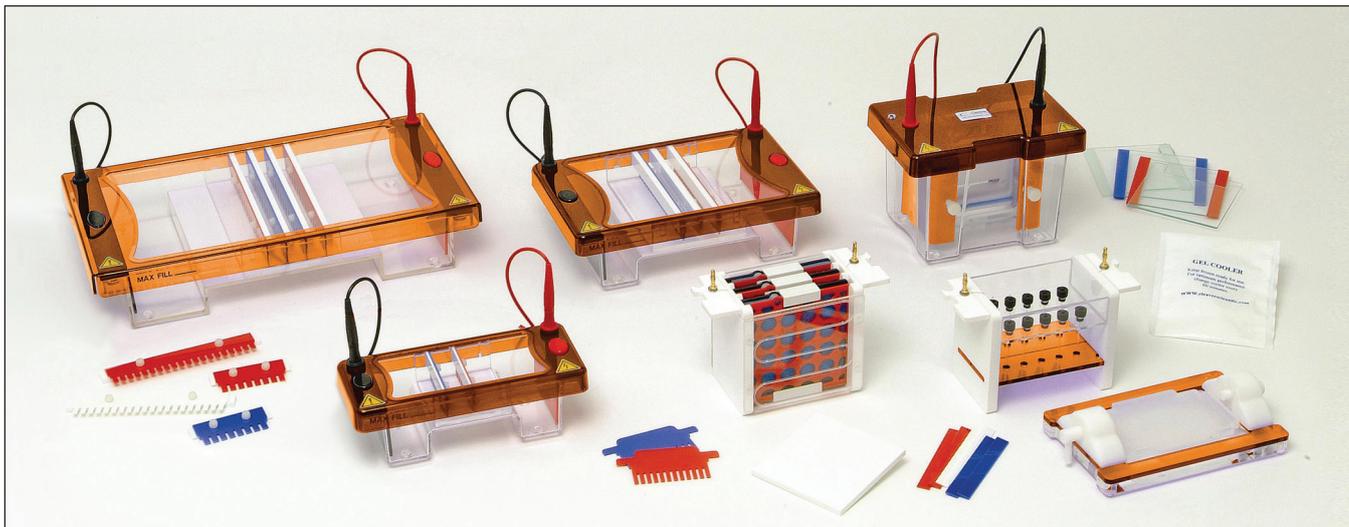


Trays are UV transparent. White PVC platform cover and red loading guides can be optionally applied to enhance Well visibility. Gel trays are free of indentations or casting gate channels, which can interfere with sample progression.



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

A complete range of accessories and combs are available. Please visit our website for full details.

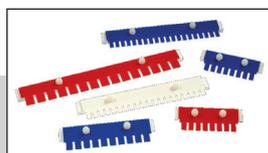


The Clarit-E series of horizontal gel units offers the most versatile solution for DNA and RNA agarose gel electrophoresis currently available.

All units offer unsurpassed economy of gel and buffer volume, with gel size and sample number versatility. This eliminates the need for multiple gel tanks for changes in gel size or application.

All units contain removable UV transparent trays. Gel size and sample number requirements can be exactly matched in each unit as 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 Clarit-E unit is in use for gel running. 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.



Extensive range of 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 multichannel pipette loading

The number of samples can be maximised using combs with higher numbers of teeth.

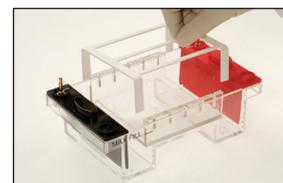
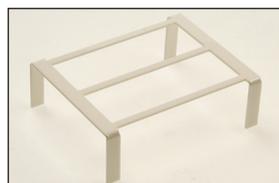


Corrosion resistant gold plated terminals



Retractable connectors compatible with most major power supplies.

High efficiency horizontal gel cooling

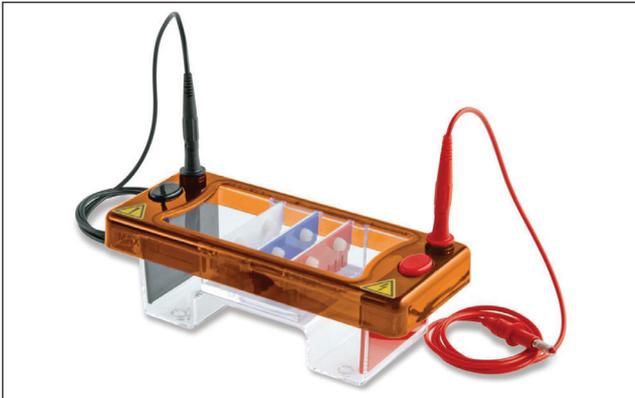


Removable gel table allows a Coolpack to sit above the gel in buffer offering enhanced gel resolution and faster run times.



CE 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.

Clarit-E[®] Mini Horizontal Gel Tank



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

Typical application: Designed for quick checks of low to medium numbers of samples.

The Clarit-E Mini is the smallest unit in the range, designed to maximise run economy without compromising versatility as two tray options are available, and combs ranging from preparative up to 16 samples.

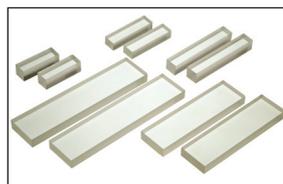
Maximum separation distance is 9cm.

Technical Specifications	
Gel dimensions (W x L)	7 x 7cm, 7 x 10cm
Unit dimensions (W x L x H)	21 x 9 x 9cm
Max. sample: 7 x 7cm tray	32 samples
7 x 10cm tray	64 samples
Buffer volume	225ml
Combs available	1, 2, 4, 8MC, 8, 10, 12MC, 16
No. of samples	Choose any two
Thickness	0.75, 1, 1.5, 2mm

Mini Horizontal Gel Tank	
Catalogue Number	Description
EL1000	Mini, 7 x 7cm UV tray, 2 combs, loading guides & dams
EL1100	Mini, 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1050	Mini, 7 x 7cm & 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1002	7 x 7cm UV tray
EL1102	7 x 10cm UV tray



Components of Clarit-E EL1050



Buffer saver blocks are available for all units, which physically reduce the volume of a gel chamber and so reduce buffer requirements, saving cost.

Clarit-E[®] Midi Horizontal Gel Tank



- 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

Typical application: Ideal for quick checks of samples from PCR and cloning.

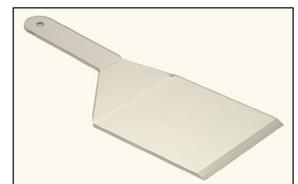
Designed for routine checks of a medium number of samples over short to medium gel lengths. Wider than the Clarit-E Mini it allows more samples to be resolved per gel without a significant increase in buffer or gel volumes.

Technical Specifications	
Gel dimensions (W x L)	10 x 7cm, 10 x 10cm
Unit dimensions (L X W x H)	22 x 12.5 x 9cm
Max. sample: 10 x 7cm tray	50 samples
10 x 10cm tray	100 samples
Buffer volume	300ml
Combs available	1, 2, 4, 8, 10MC, 12, 16, 20MC, 25
No. of samples	Choose any two
Thickness	0.75, 1, 1.5, 2mm

Midi Horizontal Gel Tank	
Catalogue Number	Description
EL1200	Midi, 10 x 7cm UV tray, 2 combs, loading guides & dams
EL1300	Midi, 10 x 10cm UV tray, 2 combs, loading guides & dams
EL1250	Midi, 7 x 7cm & 7 x 10cm UV tray, 2 combs, loading guides & dams
EL1202	10 x 7cm UV tray
EL1302	10 x 10cm UV tray



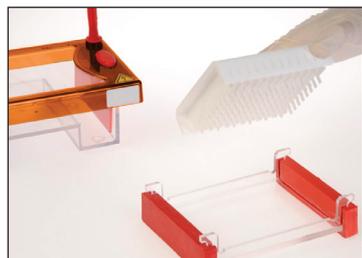
Loading Guides allow easy well identification and sample loading.



Scoops for safe transfer of gels.

Clarit-E[®] Midi 96 Horizontal Gel Tank

The Clarit-E Midi 96 is ideal for separation of PCR products, or DNA samples containing only a few bands, from 96-Well microtitre plates and thermal cycler blocks.



Rapid Testing –

96 Wells can be cast simultaneously within a single gel in a precise 96-Well microplate configuration.

Rapid Loading – gels can be loaded quickly and easily by 8-channel pipette.

Extended Separation – offset layout of the Wells ensures a longer run length per Well.

High Speed & High Throughput – 96 samples loaded and separated in 15 to 30 minutes without loss of resolution.

Easy Sample Identification – exact configuration of 96-Well microplates allows samples to be quickly and easily identified from original microplates.

Technical Specifications

Gel dimensions (W x L)	10 x 12cm
Unit dimensions (W x L x H)	12.5 x 22 x 9cm
Max. sample	96 samples plus 1 or 2 marker lanes 192 for Midi 96 Double
Buffer volume	300ml
Combs available	8MC + 1 marker lane
No. of samples	8MC + 2 marker lanes
Thickness	1.5, 2mm
Recommended power supply	EL2730

Midi 96 Horizontal Gel Tank

Catalogue Number	Description
EL1350	Midi 96, UV tray, comb block with 12 x 8 sample, 1mm thick combs with 1 marker lane, casting dams
EL1355	Midi 96, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with 1 marker lane, casting dams
EL1360	Midi 96, UV tray, comb block with 12 x 8 sample, 1mm thick combs with 2 marker lanes, casting dams
EL1365	Midi 96, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with 2 marker lanes, casting dams

Accessories and Combs

Catalogue Number	Description
EL1370	Comb block for EL1350
EL1375	Comb block for EL1355
EL1380	Comb block for EL1360
EL1385	Comb block for EL1365
EL1386	8-sample, 1mm thick comb, 1 marker lane
EL1387	8-sample, 1.5mm thick comb, 1 marker lane
EL1388	8-sample, 1.5mm thick comb, 2 marker lanes
EL1389	8-sample, 1mm thick comb, 2 marker lanes
EL1390	Midi, 96-Well tray

Clarit-E[®] Midi 96 Stretch Horizontal Gel Tank



The Clarit-E Midi-96 Stretch Horizontal Gel Systems have all the features of the Midi 96 systems with the additional benefit of an extended run length per Well of up to 3.6cm. This allows greater resolution of samples.

Technical Specifications

Gel dimensions (W x L)	10 x 24cm
Unit dimensions (W x L x H)	12.5 x 46 x 8cm
Max. sample	96 samples plus 1 or 2 marker lanes
Buffer volume	700ml
Combs available	8MC + 1 marker lane
No. of samples	8MC + 2 marker lanes
Thickness	1, 1.5mm
Recommended power supply	EL2730

Midi 96 Stretch Horizontal Gel Tank

Catalogue Number	Description
EL1310	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1mm thick combs, casting dams
EL1320	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with one marker lane, casting dams
EL1330	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1mm thick combs with two marker lanes, casting dams
EL1340	Midi 96 Stretch, UV tray, comb block with 12 x 8 sample, 1.5mm thick combs with two marker lanes, casting dams
EL1345	Midi 96 Stretch Double, UV tray, comb block with 24 x 8 sample, 1mm thick combs, casting dams

Accessories and Combs

Catalogue Number	Description
EL1312	Comb block for EL1310
EL1322	Comb block for EL1320
EL1332	Comb block for EL1330
EL1342	Comb block for EL1340
EL1386	8 sample, 1mm thick comb. 1 marker lane
EL1387	8 sample, 1.5mm thick comb. 1 marker lane
EL1389	8 sample, 1mm thick comb. 2 marker lanes
EL1388	8 sample, 1.5mm thick comb. 2 marker lanes
EL1316	Midi 96 Stretch, Tray

Clarit-E® Choice Horizontal Gel Tank



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

Typical application: Ideal for restriction fragment analysis, sample prep or checking of high numbers of samples.

The Clarit-E Choice offers a wide degree of versatility. Three tray options are available allowing the choice of one, two or all three gel length options at the time of purchase. The 15cm total run length allows restriction fragment or other close MW sample bands to be easily separated and identified.

Technical Specifications	
Gel dimensions (W x L)	15 x 7cm, 15 x 10cm, 15 x 15cm
Unit dimensions (W x L x H)	26.5 x 17.5 x 9cm
Max. sample:	
20 x 10cm tray	70 samples
20 x 20cm tray	140 samples
20 x 25cm tray	210 samples
Buffer volume	500ml
Combs available	1, 2, 4, 10, 10MC, 12, 14MC, 16MC, 18MC,
No. of samples	20, 28MC 30MC, 35 - Choose any two
Thickness	0.75, 1, 1.5, 2mm

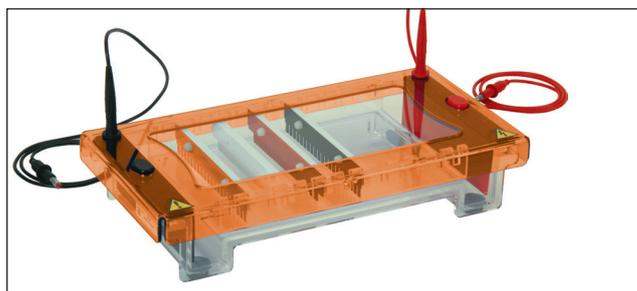
Choice Horizontal Gel Tank	
Catalogue Number	Description
EL1450	Choice, 15 x 7cm UV tray, 2 combs, loading guides & dams
EL1400	Choice, 15 x 10cm UV tray, 2 combs, loading guides & dams
EL1500	Choice, 15 x 15cm UV tray, 2 combs, loading guides & dams
EL1550	Choice Trio, 15 x 7, 10 & 15cm UV tray, 2 combs, loading guides and dams
EL1510	Choice Trio, 3 x 15 x 15cm UV trays, 2 combs, loading guides and dams

Accessories	
Catalogue Number	Description
EL1452	15 x 7cm UV tray
EL1402	15 x 10cm UV tray
EL1502	15 x 15cm tray



Clarit-E Choice Trio includes all 3 tray sizes for optimum versatility and value.

Clarit-E® Choice Stretch Horizontal Gel Tank



- Available with 15 x 20cm and 15 x 25cm gel trays
- Run up to 350 samples
- Multichannel pipette compatible combs for speed loading

Typical application: Ideal for higher resolution separations such as separating samples with very similar molecular weights.

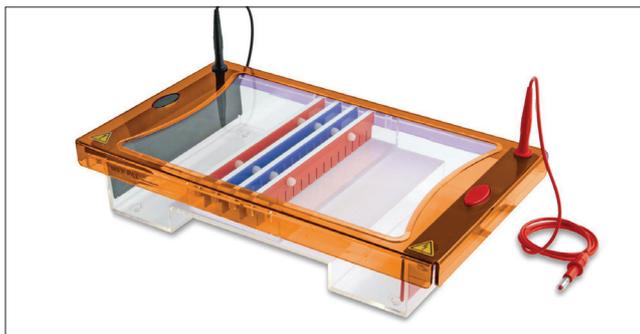
The addition of the stretch Choice units increases the flexibility of this popular range of gel tanks. The extended run lengths allow restriction fragments or other close molecular weight sample bands to be easily separated and identified. The Clarit-E Choice stretch gel tanks are ideal for researchers wanting to perform higher resolution separation of more samples over a longer distance. Speed loading is accomplished using 10, 14, 16, 18, 28 or 30 sample multi-channel pipette compatible combs.

Technical Specifications:	
Gel dimensions (W x L)	15 x 20cm, 15 x 25cm
Unit dimensions (W x L x H)	17.5 x 41 x 9cm
Max. sample:	
15 x 20cm tray	280 samples
15 x 25cm tray	350 samples
Buffer volume	1000ml
Combs available	1, 2, 4, 10, 10MC, 12, 14MC, 16, 18MC,
No. of samples	20, 28MC 30MC, 35 - Choose any four
Thickness	0.75, 1, 1.5, 2mm

Choice Stretch Horizontal Gel Tank	
Catalogue Number	Description
EL1430	Choice Stretch 20, 15 x 20cm UV tray, 4 combs, casting dams, loading guides
EL1440	Choice Stretch 25, 15 x 25cm UV tray, 4 combs, casting dams, loading guides

Accessories	
Catalogue Number	Description
EL1432	15 x 20cm UV tray
EL1442	15 x 25cm UV tray

Clarit-E Maxi Horizontal Gel Tank



- 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

Typical application: Primarily designed for separating high numbers of samples from PCR or cloning.

The Clarit-E 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. Multichannel pipette compatible combs facilitate speed-loading.

Technical Specifications

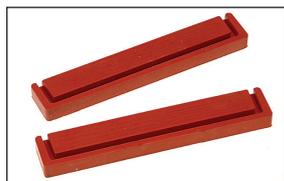
Gel dimensions (W x L)	20 x 10cm, 20 x 20cm, 20 x 25cm
Unit dimensions (W x L x H)	39.5 x 23 x 9cm
Max. sample:	
20 x 10cm tray	200 samples
20 x 15cm tray	350 samples
20 x 20cm tray	450 samples
20 x 25cm tray	550 samples
Buffer volume	1200ml
Combs available	1, 2, 4, 10, 16, 20MC, 25, 30, 36, 40MC, 50
No. of samples	Choose any two
Thickness	0.75, 1, 1.5, 2mm

Maxi Horizontal Gel Tank

Catalogue Number	Description
EL1600	Maxi, 20 x 25cm UV tray, 2 combs, loading guides & dams
EL1620	Maxi, 20 x 20cm UV tray, 2 combs, loading guides & dams
EL1630	Maxi, 20 x 15cm UV tray, 2 combs, loading guides & dams
EL1640	Maxi, 20 x 10cm UV tray, 2 combs, loading guides & dams
EL1660	Maxi, 20 x 20cm & 20 x 10cm UV tray, 2 combs, loading guides and dams

Accessories

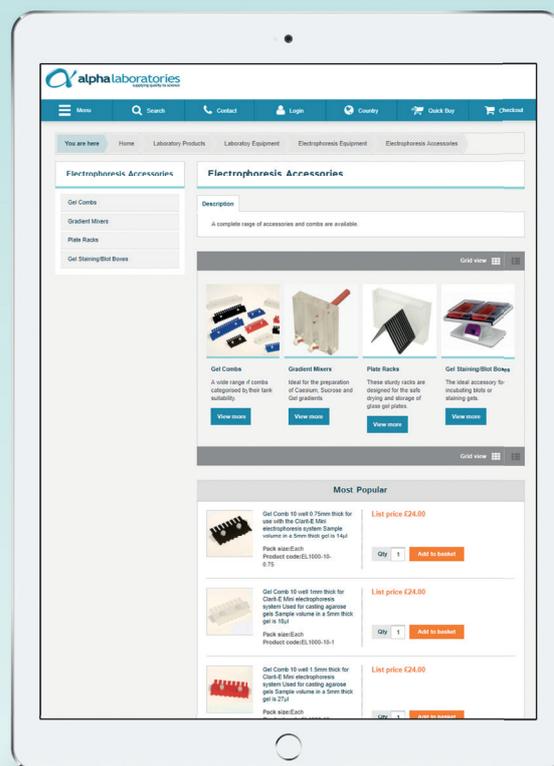
Catalogue Number	Description
EL1642	20 x 10cm UV tray
EL1632	20 x 15cm UV tray
EL1622	20 x 20cm UV tray
EL1602	20 x 25cm UV tray



Casting dams allow gels to be rapidly cast externally while the Clarit-E unit is in use for gel running.

Electrophoresis Equipment available online at www.alphalabs.co.uk

Easy Access to All Your Accessories



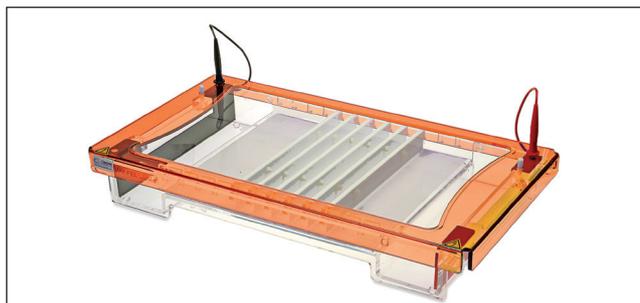
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24/7 wherever you are

Clarit-E[®] 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

Typical application: Ideal for rapid screening of very large numbers of clonal or PCR samples or extended high resolution separations.

The Clarit-E Screen allows loading and analysis of exactly seven 96-Well format micro titre plates.

The large gel run length of up to 32cm also allows resolution of samples over a long distance for separation of complex sample bands such as in restriction fragment analysis. Buffer recirculation ports are included to allow enhanced resolution over extended runs.

Technical Specifications

Gel dimensions (W x L)	26 x 32cm, 26 x 24cm, 26 x 16cm
Unit dimensions (W x L x H)	50 x 28 x 9cm
Max. sample:	
20 x 10cm tray	672 samples
20 x 20cm tray	504 samples
20 x 25cm tray	336 samples
Buffer volume	1400ml
Combs available	28M, 56MC
No. of samples	Choose any six
Thickness	0.75, 1, 1.5, 2mm

Screen Horizontal Gel Tank

Catalogue Number	Description
EL1800	Screen, 26 x 32cm UV tray, 6 combs, loading guides & dams
EL1820	Screen, 26 x 24cm UV tray, 6 combs, loading guides & dams
EL1840	Screen, 26 x 16cm UV tray, 6 combs, loading guides & dams
EL1860	Screen, 26 x 16, 24 & 32cm UV tray, 6 combs, loading guides and flexicaster

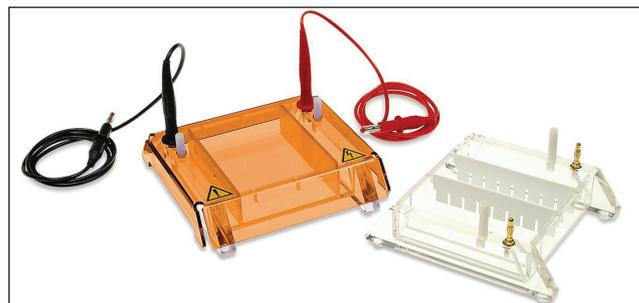
Accessories

Catalogue Number	Description
EL1802	26 x 32cm UV tray
EL1822	26 x 24cm UV tray
EL1842	26 x 16cm UV tray



Clarit-E Choice Trio includes all 3 tray sizes for optimum versatility and value.

Clarit-E[®] Fast Mini



- A convenient self-contained solution for routine agarose gel electrophoresis
- Ultra compact
- Low buffer and gel volumes
- Multichannel pipette compatible combs for speed loading

Typical application: For routine, rapid checking of samples.

Perform gel casting, running and analysis in the same unit. The parallel electrode arrangement allows ultra efficient current transfer, enabling resolution to be completed within 30 minutes. The UV transparent base allows direct viewing on a UV Transilluminator with no need for time-consuming transfer and potential gel damage. Dual comb slots.

Technical Specifications

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

Fast Mini Horizontal Gel Tank

Catalogue Number	Description
EL1700	Fast Mini, 10 x 8cm, 2 combs 1.5mm & casting dams
EL1702	Fast Mini casting dams, pk/2

Clarit-E[®] Comet Assay Tank

This Comet Assay Tank is available for use with 20 standard microscope slides to study single cell gel electrophoresis (SCGE), a technique made popular by drug toxicology and carcinogenesis studies for the detection and quantification of DNA damage in cells.



Each tank's robust construction from ebony acrylic ensures that cells remain free of exposure to background light and DNA damage during electrophoresis, while a cooled central platform provides a convenient surface for slide preparation and control of slide temperature during the assay. Following electrophoresis DNA damage may be measured using Comet Assay scoring software.

- For Single Cell Gel Electrophoresis
- Minimise exposure to light and reduce background DNA damage
- High efficiency cooling for enhanced resolution

Single Cell Gel Electrophoresis

Initially back in the 1980's SCGE was used to quantify double-stranded DNA breakages in single cells exposed to irradiation. The technique has since been adapted to analyse specific DNA lesions and repair processes.

Cells are exposed to a genotoxic insult, such as ionising radiation, which results in strand breakage of supercoiled duplex DNA, thereby reducing the size of the large genomic DNA molecules. Following this treatment, cells are suspended within low melting point agarose which is smeared on to a microscope slide to create a thin layer in which the cells are embedded. Cellular protein is then removed by lysis in detergent, and the alkaline conditions promote the unwinding of the DNA in readiness for electrophoresis. The DNA is electrophoresed, stained and then analysed using software.

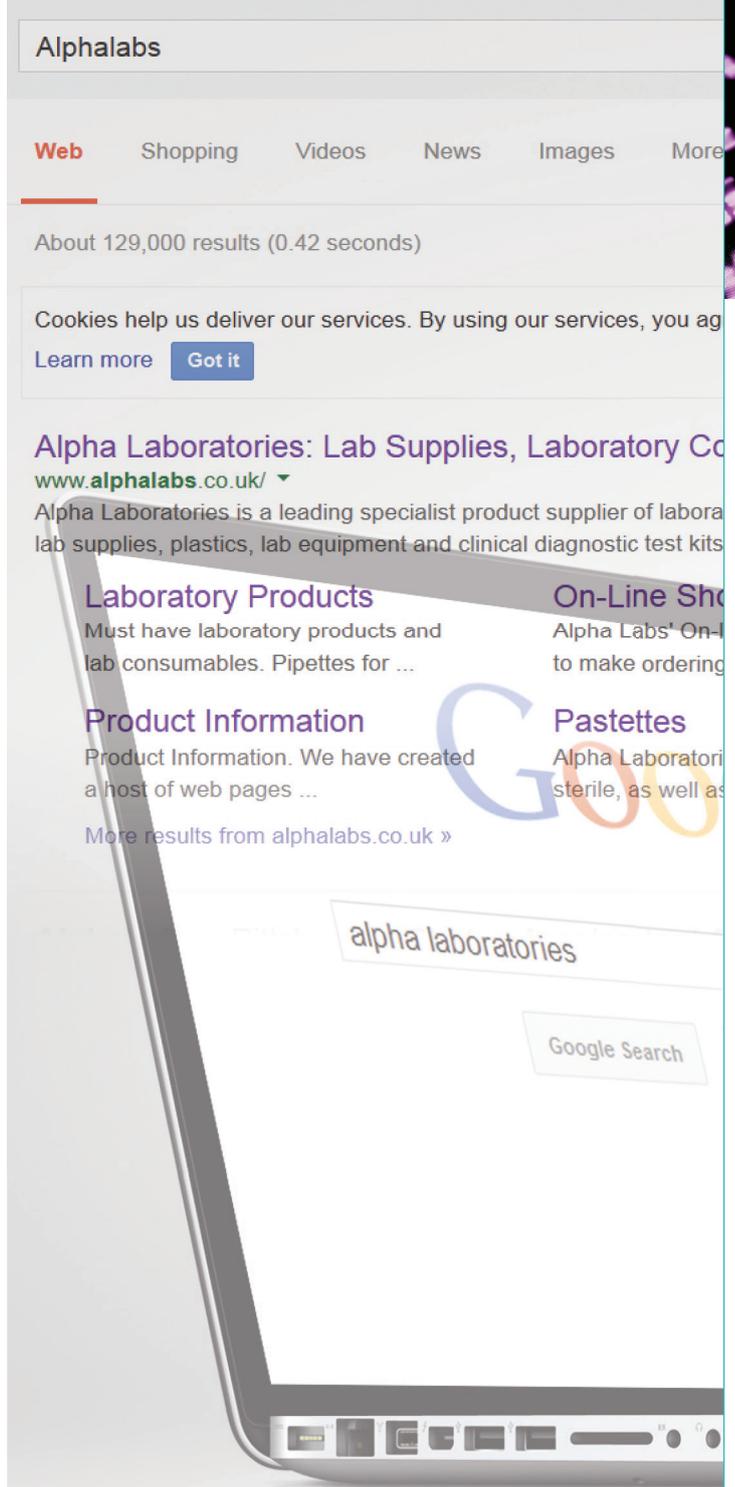
The electrophoresis draws out the DNA fragments and the genomic DNA takes on the appearance of a comet as its negatively charged broken ends and fragments migrate towards the anode during electrophoresis. The head of the comet is mainly composed of intact genomic DNA, whereas any fragmented or damaged DNA is concentrated within and towards the tail. Microscopy imaging is used to measure DNA fluorescence upon staining.

Technical Specifications

Unit dimensions (W x L x H)	31 x 34 x 9cm
Max. sample capacity	20
Buffer volume	1000ml
Recommended Running Conditions	25V/300mA for 1 hour

Comet Assay Tank

Catalogue Number	Description
EL1920	Comet assay tank for SCGE for up to 20 slides



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Clarit-E DNA-View Electrophoresis System

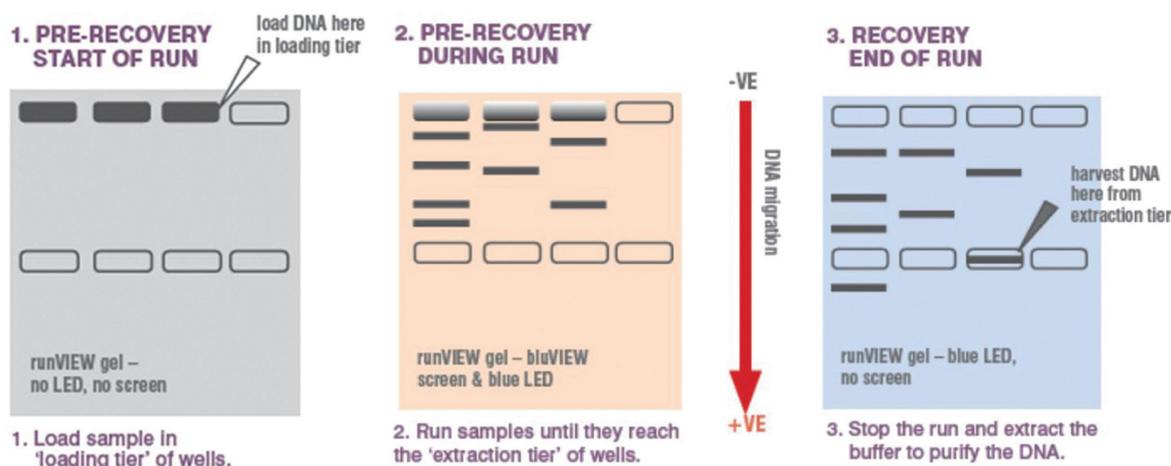
A Safer Alternative to Traditional Electrophoresis

Traditional electrophoresis methods use a combination of harmful UV light and toxic ethidium bromide to visualise DNA samples in a gel. Intense UV light such as that typically used in transilluminators, can cause skin burns and damage to eyes in a very short exposure time. In addition UV can cause cross-linking of DNA and mutagenesis, thereby reducing cloning efficiency. Ethidium Bromide, though still one of the most widely used DNA stains for electrophoresis, is a known carcinogen and mutagen and should always be used with caution.

Blue LED lights can also be used to cause emission of fluorescence although the wavelength is different to UV, and fluorescence is never as strong as more traditional UV and stain combinations. But with safe proprietary stains, and blue LED illumination, it is possible to visualise DNA gels, without the worry of handling harmful chemicals, or exposure to UV light.

The DNA-View system enables you to do this. What's more, the DNA-View system enables you to see your samples separating in real time, and it can even be used to simplify sample recovery by using a 2 tier Well approach.

Built around the versatile Choice Horizontal Gel system, DNA-View comprises a bluView base station which incorporates the blue LED illuminator and power supply. The base station exactly fits the Choice Gel tank which is supplied with a special lid incorporating a light filter and extractor fan which eliminates condensation to optimise visualisation and resolution during electrophoresis. For completeness, a selection of combs are included suitable for gel resolution or sample preparation.



Features

- Versatile, highly compact, self-contained system: for convenience
- Flexible high resolution system: for many different applications
- Integrated tank, power supply and gel illuminator: saves time and space
- Safety for users: no dangerous UV
- Safety for samples: no mutagenesis of DNA, no compromise on cloning efficiency
- Real time visualisation of gel run: no over-runs
- Simplifies DNA elution: simple ethanol precipitation from buffer
- No need for expensive pre-made gels: lab-cast gels work perfectly and save you money
- Current Choice gel tank users upgrade available: cost-effective solution
- Optional Gel Documentation System with 12.1 mega-pixel digital camera
- Complete ready-to-use system excluding chemicals and reagents

Applications

- Resolution of DNA samples
- Simple DNA recovery
- Track DNA without harmful UV
- Save on time-consuming gel elution techniques
- Teaching electrophoresis

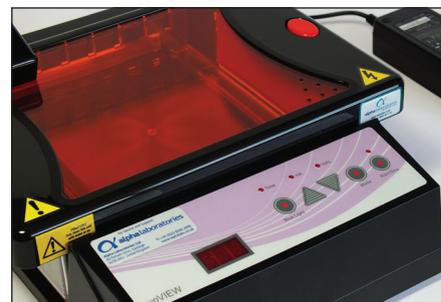
DNA-VIEW

Catalogue Number	Description
EL1560	DNA-View system complete with 15 x 7cm gel tray, 1 set of casting dams
EL1565	DNA-View system complete with 15 x 10cm gel tray, 1 set of casting dams
EL1570	DNA-View system complete with 15 x 15cm gel tray, 1 set of casting dams
EL1575	DNA-View system complete with 15 x 7, 15 x 10 and 15 x 15cm gel trays, 3 sets of casting dams
EL1555	DNA-View base station & bluVIEW lid
EL1580	DNA-View gel documentation hood with 12.1MP camera
EL1585	DNA View Darkroom viewing hood
All DNA-View systems are supplied with 8 double-sided and 4 extra thick preparatory combs	

DNA-View Stain Compatibility

DNA-View Stain Compatibility		Staining Method		
Nucleic Acid Stain	Relative Performance Between Stains	Gel Pre-Staining	Gel Post-Staining	Sample Staining
SYBR® Green I (DNA)	Higher Intensity Bands Observed	✓	✓	✓
SYBR® Green II (RNA)	Higher Intensity Bands Observed		✓	✓
SYBR® Gold	Higher Intensity Bands Observed	✓	✓	
Midori Green Direct	Higher Intensity Bands Observed			✓
Hydra Green™ Safe DNA Dye	Higher Intensity Bands Observed	✓	✓	
HD Green™ DNA Stain	Higher Intensity Bands Observed	✓	✓	
runSAFE	Higher Intensity Bands Observed			✓
SafeView DNA Stain	Compatible -Visible Bands Observed	✓		
SYBR® Safe	Compatible -Visible Bands Observed	✓	✓	
Midori Green	Compatible -Visible Bands Observed	✓	✓	
Midori Green Advanced	Compatible -Visible Bands Observed	✓	✓	
EtBr	Faint Bands Observed*	✓	✓	
SERVA DNA Stain Clear G	Faint Bands Observed*	✓		
HealthView™	Faint Bands Observed*	✓	✓	
GelGreen™	Faint Bands Observed*	✓	✓	
GelRed™	Faint Bands Observed*	✓	✓	

*Compared to the same gel on a UV Transilluminator



Technical Specifications

DNA-View Viewing Dock and System

Blue Light	470nm	Timer	1-999 minutes with alarm
Voltage/ Resolution	25-150V / 1V	Safety Device	No load detection
Current/ Resolution	300mA / 1mA	Operating temperature	Ambient to 40°C
Power	30 W	Dimensions	293 x 220 x 80 mm
Operating Mode	Constant Voltage	Rated Voltage	100-240V, 50/60Hz
Gel Dimensions (W x L)	15 x 7, 15 x 10 & 15 x 15 cm	bluVIEW Lid Design	Orange (EtBr) Amber (runSAFE & SYBR stains)
Built-in extractor fan	Powered by base unit.	Unit dimensions (w x d x h)	26.5 X 17.5 X 9cm
Buffer volume	500ml		
Combs included	2x Comb 1 & 2 sample, 1mm thick 2x Comb 4 & 16MC sample, 1mm thick 4x Comb 20 & 28MC sample, 1mm thick 2x Comb 4 sample 2 Marker, 3mm thick 2x Comb 6 sample 2 Marker, 3mm thick		

N.B. Combs cannot be changed with this system

Supplied with a standard UK 3-pin plug.
If you require a different style please specify when ordering.



Clarit-E®

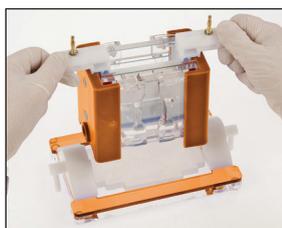
Vertical Electrophoresis Systems clearly better resolution.

- **Rapid Gel Casting and Loading** – ensures trouble-free gel set-up
- **Versatile** – modules for slab gel, 2-D electrophoresis and electroblotting using a single universal buffer tank

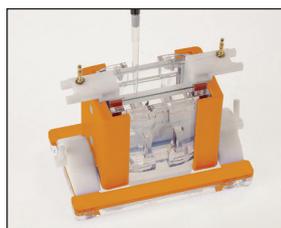
Simple, rapid, leak-proof gel casting (unique sliding gates gel clamping system is only applicable for Mini vertical tank)



Insert glass plates and slide gates to create efficient seal



Transfer to casting base and tighten cams

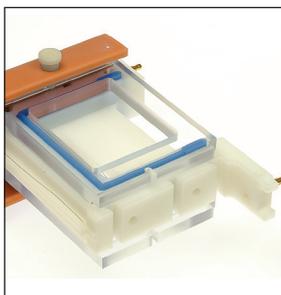


Insert gel solution and comb and allow to polymerise



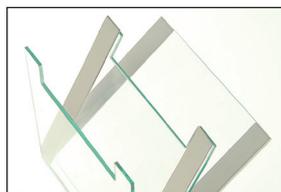
Transfer to tank, fill with buffer and run

Pressure clamping frame



On the Mini gel tank a unique single-piece pressure frame offers the option of rapid single screw per side or new screw-free set up. Even pressure and buffer contact across the plates results in even sample migration and efficient heat removal from the gel. Glass plates are 2mm thick for Mini and 4mm thick for Mini Wide and Maxi tanks to reduce breakage.

Run up to four gels at a time



While most vertical gel units can run only one or two gels, the Clarit-E Mini units can run one, two or up to four gels at any time using a triple glass plate sandwich.

Effective buffer cooling



A simple to use cooling pack system ensures enhanced resolution without costly and time-consuming additional equipment. No chiller, tap or obstructing connecting leads are required. The cooling pack is simply pre-chilled in a freezer and placed in the gel tank. Additionally, the use of cooling packs reduces buffer volume.

Extensive range of combs

Up to five thicknesses, colour coded:

- Purple:** 0.5mm for ultra resolved bands
- 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

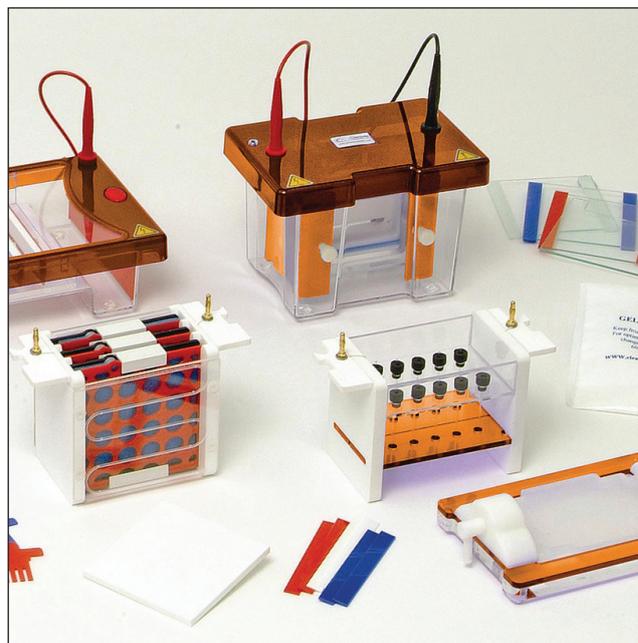


Options for sample prep

Options for multichannel pipette loading

The number of samples can be maximised using combs with higher numbers of teeth.

The Clarit-E range of Vertical Gel Units combines ease of use with high resolution separations. Three sizes, Mini 10 x 10cm, Mini Wide 20 x 10cm and Maxi 20 x 20cm, share a host of common features including a guaranteed leak-proof seal required for trouble-free, rapid and uncomplicated gel casting. Utilising a built-in gel running module eliminates time-consuming transfer of glass plates following casting - a process which can cause gel damage and misalignment. Glass plates with permanently bonded spacers, guarantee perfect spacer alignment. The glass plate sandwich is simply inserted between pressure bars and a minimum of screws tightened. For the Clarit-E Mini there are no screws to tighten as the unique gel clamping system ensures fast set up times and guaranteed leak-proof gel casting. Following polymerisation, the gel running module is simply inserted into the gel tank for electrophoresis.



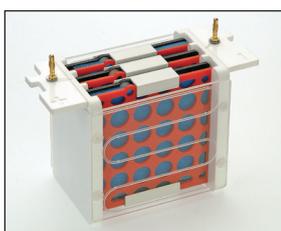
Interchangeable Modules



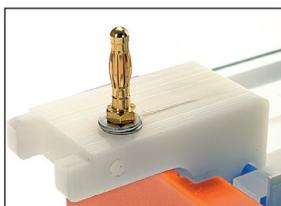
Running Module



2D Module



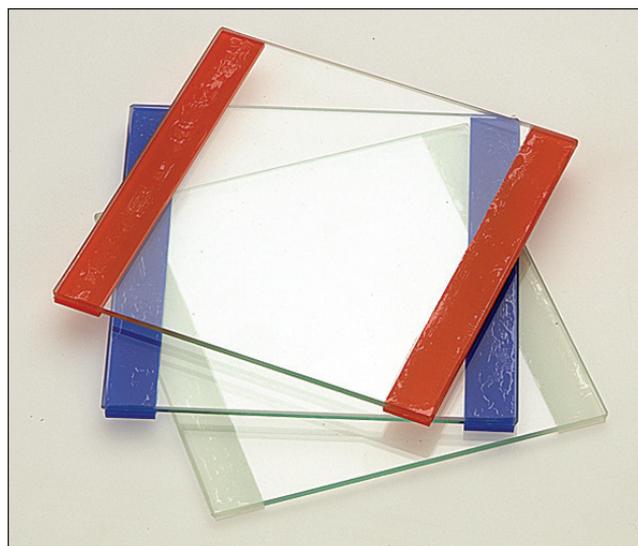
Blotting Module with double-hinged cassettes for added convenience.



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



Retractable connectors compatible with most major power supplies.

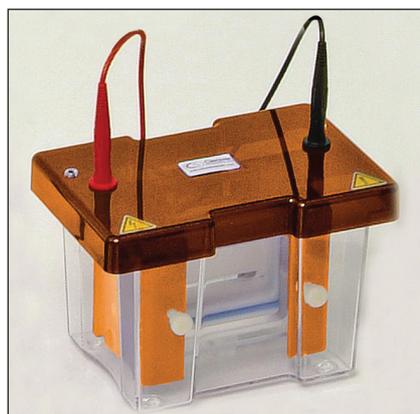


A complete range of accessories and combs are available. Please visit our website for full details.

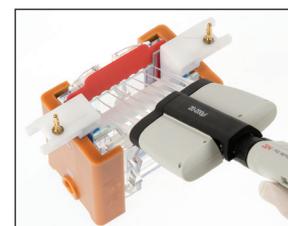
CE All units are CE marked and are in conformity with the relevant CE Safety Directives: 73/23/EEC: LOW VOLTAGE DIRECTIVE: IEC 61010-1:2001. EN 61010-1:2001; 89/336 /EEC EMC DIRECTIVE: EN55011 Emissions, EN50082-1 Immunity.

Clarit-E[®] Mini Vertical Gel Tank

- Injection Moulded construction
- Compatible with all 8 x 10 and 10 x 10cm precast gels
- Low buffer volumes
- Run up to 4 gels



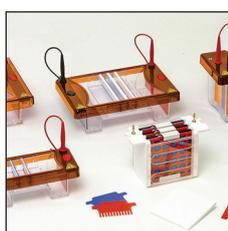
Internal running module



Gel loading guides

Typical application: Mini SDS PAGE, Native PAGE, Gradient, Second dimension and Nucleic acid separations.

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



Clarit-E Mini and optional accessories

The running insert has the option of sliding gates or a single screw per side for clamping gels.

Accessory electroblotting and tube gel modules are available which use the same outer tank and lid. See Modular systems for further information.

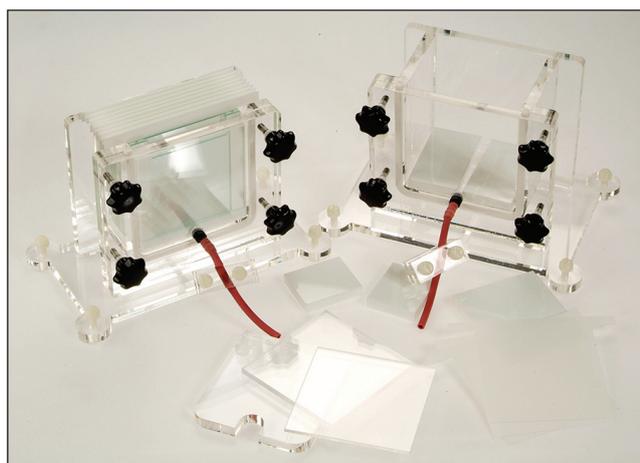
Technical Specifications

Plate dimensions	10 x 10cm
Gel dimensions (W x L)	7.5 x 8cm
Unit dimensions (W x D x H)	19 x 13 x 15cm
Max. sample capacity	80 samples per unit 20 samples per gel
Buffer volume	Min 250ml; Max 1200ml
Combs available	1, 5, 8MC, 9, 10, 12, 16MC, 20
No. of samples	Choose any two
Thickness	0.75, 1, 1.5, 2mm

Mini Vertical Gel Tank

Catalogue Number	Description
EL2004	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate
EL2000	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate and casting base
EL2012	Mini, 10 x 10cm includes glass plates with bonded 1mm thick spacers, 2 combs, cooling pack, dummy plate, casting base, external casting upstand
EL2190	Mini Quad, 10 x 10cm includes 4 glass plates with bonded 1mm thick spacers, 4 combs, cooling pack, dummy plate, casting base, external casting upstand

Clarit-E[®] Multiple Mini Gel Casting



- Integral levelling feet and level bubble
- Standard and gradient gels can be poured
- Choice of 2, 6, 12 or 24 gel casting models

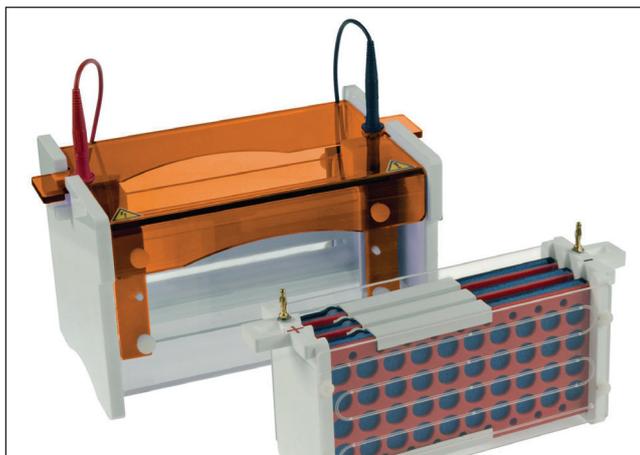
Advance casting of multiple mini gels can help to achieve consistent results between runs. These multiple gel casting systems are tailored for use with Clarit-E Mini vertical electrophoresis units; with three models of 2, 6, 12 and 24 gel capacities. Fewer gels can be poured if required using the acrylic saver blocks supplied with each system.

The fixed hinged clamps allows the gel sandwich to be adjusted to the correct pressure irrespective of the number or the thickness of gels being poured. Separation sheets allow the easy separation of the glass plates after pouring.

Multiple Mini Gel Casting

Catalogue Number	Description
EL2018	2 Gel Caster for 8 x 10cm or 10 x 10cm gels
EL2166	12 Gel Caster for 8 x 10cm or 10 x 10cm gels

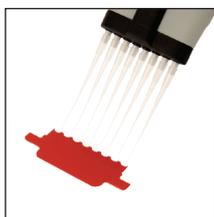
Clarit-E[®] Mini Wide Vertical Gel Tank



- Offers the capacity of two mini gels on a single gel

- Optional low or high buffer volumes

Typical application: Mini SDS PAGE, Native PAGE, Gradient, Second dimension and Nucleic acid separations.



The Clarit-E Mini Wide vertical gel unit with a gel width of 20cm effectively allows double the number of samples to be resolved as the Clarit-E Mini unit. This allows consistency of sample comparison on a single gel and is designed for those with greater than 20 samples to compare and resolve.

Both the Mini Wide and the Maxi system use 4mm thick glass plates which reduce breakage and have bonded spacers for added convenience. A wide range of accessories is available allowing many techniques to be performed using the same unit. Prep combs can be used to maximise sample loading and recovery.

Uses same combs as Maxi systems

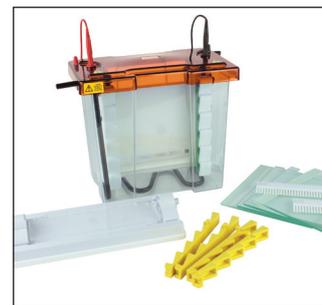
Technical Specifications	
Plate dimensions	20 x 10cm
Gel dimensions (W x L)	18 x 8cm
Unit dimensions (W x D x H)	26 x 16 x 16cm
Max. sample capacity	192 samples per unit 48 samples per gel
Buffer volume	Min 600ml; Max 2800ml
Combs available No. of samples	1, 5, 10, 18MC, 24, 30, 36MC, 48 Choose any two
Thickness	0.75, 1, 1.5, 2mm

Mini Wide Gel Tank

Catalogue Number	Description
EL2083	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack
EL2084	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack inc. casting base
EL2086	Mini Wide, 20 x 10cm 2 sets of glass plates with bonded 1mm thick spacers, 2 combs, cooling pack inc. casting base and external casting upstand

Clarit-E[®] Maxi Z Vertical System

- For 20x20cm gels
- More Gels – run 2-4 gels simultaneously in standard 2-gel Maxi Z and 4-gel Maxi Z Tetrad systems
- Customise your system for second-dimension runs with 18cm IPG strips and gels using the IEF conversion kit



- Utilise modular inserts with the same universal tank and lid to extend the application of your standard Maxi Z unit to create a complete 2-D or blotting system

The new Vertical Maxi Z System is the latest product innovation for large format vertical gel electrophoresis. Designed to perform a variety of separations, including first and second-dimension SDS-PAGE, native, preparative, gradient and high-resolution nucleic acid electrophoresis, plus capillary tube gel IEF and electroblotting, the Maxi Z is one of the most versatile maxi vertical systems available.

By introducing innovative, new vertical screw-clamp technology within the PAGE insert only four screws are now necessary to secure up to four 20 x 20cm gels.

Choose any two combs

Technical Specifications			
Number of gels	1 - 4	Total Volume Inner Buffer Chamber	192 samples, 48 samples per gel
Handcast gels	Using glass plates and combs	Total buffer Volume	5.3L (2 gels) 4.8L (4 gels)
Plate Dimensions (W x H x T)	20 x 20cm x 0.4cm	Standard run time for SDS-PAGE Without Cooling With Cooling	4-5 hours 3-4 hours
Standard Spacer Dimensions (W x H)	2 x 20cm	Recommended power supplies	EV233 for IEF; EL2740 for PAGE; EL2750 for blotting
IPG Spacer Dimensions (W x H)	0.6 x 20cm	Unit Dimensions (W x D x H) Weight	30x18x27cm 2.5Kg

Maxi Z Vertical System for 20x20cm gels

Catalogue Number	Description
EL2100Z	Maxi Z, 20 x 20cm Dual with Glass Plates with bonded 1mm thick spacers, 2 combs, cooling coil, dummy plate and Casting Base
EL2102Z	Maxi Z, 20 x 20cm Dual, 2 sets of Glass Plates, 1mm thick bonded Spacers, 2 combs, cooling coil, dummy plate; includes caster and External casting upstand
EL2120Z	Maxi Z, 20 x 20cm Dual vertical system with Glass plates, 2 combs, cooling coil (No casting Base)
EL2110Z	20 x 20cm Dual Casting Base
EL2179Z	IEF conversion kit for 18cm IPG strips and tube gels
EL2177Z	Pair notched 20 x 20cm glass plates with 6mm wide spacers to run IEF strips

Clarit-E[®] Maxi Plus for Second Stage 2-D

The 26cm active gel width provides a large gel area to resolve large IEF strips. In combination with the IEF system, this offers a complete package for 2-D electrophoresis. The unit utilises the Clarit-E advanced design features to provide convenient ease of use with high resolution separations.



Rapid set up cooling retains resolution in extended separations and also saves on buffer volume without affecting run quality. Four gels can be resolved per run. A wide range of accessories are available to allow easy transition between 2-D and standard vertical electrophoresis techniques. In particular different types of 2-D comb allow a wide degree of versatility in sample selection and gel set-up.

Technical Specifications

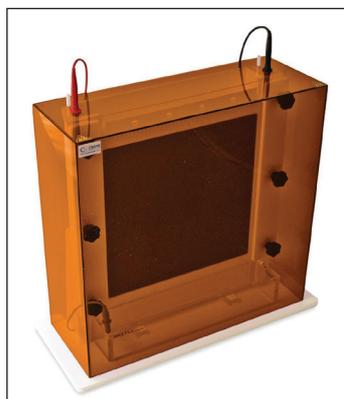
Unit dimensions (W x H x D)	36 x 33 x 18cm
Unit dimensions (W x L)	30 x 22cm
Gel dimensions (W x L)	28 x 20cm
Max. sample	300 samples per run; 75 samples per gel
Buffer volume	Min 1800ml, Max 8400ml
Combs available	1, 2, 4, 28MC, 56MC, 75
No. of samples	
Thickness	0.25, 0.35, 0.5, 1, 1.5, 2.0mm

Maxi Plus for Second Stage 2-D

Catalogue Number	Description
EL2390	Maxi Plus, 30 x 22cm Dual with Glass plates & bonded 1.5mm spacers, 2 x 28 sample combs, 2 combs, cooling pack, dummy plate
EL2395	Maxi Plus, 30 x 22cm Dual with Glass plates & bonded 1.5mm spacers, 2 x 28 sample combs, 2 combs, cooling pack, dummy plate & casting base
EL2334	Maxi Plus Blot Insert - includes 3 cassettes and 6 fibre pads
EL2318	Dual Caster - Maxi Plus

Clarit-E[®] DNA Sequencing Unit

- Run up to 96 samples
- Enhanced gel heat homogenisation
- Variable low or high buffer volumes
- 20 x 50cm or 33 x 45cm formats



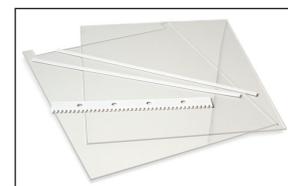
Typical application: DNA Sequencing, 2-D analysis, Micro-satellite analysis, DNA fingerprinting, Gel shift assays, Single-Strand Conformation Polymorphism (SSCP), Heteroduplex and Oligonucleotide analysis.

Ideal for a variety of large format vertical gel applications, these units offer advanced features for enhancing gel resolution and ease of use, essential when handling gels of this size. Each unit contains ultra soft silicone seals for easy plate sealing and trouble-free runs, even over extended run times.



Resolution is enhanced by using an aluminium heat sink plate, which is essential for even sample migration.

Added convenience is provided by a removable lower buffer tank and upper buffer drainage tap.



Special buffer chambers allow either low buffer volumes to be used for economy or high buffer volumes to be used for extended runs.

A wide range of interchangeable comb and spacer options allows a large number of techniques to be easily accomplished.

Technical Specifications

Plate dimensions (W x L)	EL2560 20 x 50cm EL2580 33 x 45cm
Max. sample capacity	EL2560 48 samples EL2580 96 samples
Buffer volume	EL2560 Min 500ml, Max 1000ml EL2580 Min 800ml, Max 2000ml
Combs available: No. of teeth	24, 48, 80, 96
Thicknesses	0.25, 0.35, 1, 1.5mm

DNA Sequencing Unit

Catalogue Number	Description
EL2560	DNA Sequencing Unit, 20cm wide, Glass plates, 0.35mm spacers, 48 sample comb
EL2580	DNA Sequencing Unit, 33cm wide, Glass plates, 0.35mm spacers, 48 sample comb
EL2594	Fan heater Sensor Lit for DNA Sequencing Unit EL2560 & EL2580

Clarit-E[®] Isoelectric Focusing



- For IEF strip and gel applications
- Large cooling platform area
- Pick and place easy to position electrodes
- Grid for accurate electrode alignment

The IEF system has been designed to allow the full range of IEF flat bed electrophoresis techniques. These include wick based electrophoresis, precast horizontal IEF gel electrophoresis, hand cast horizontal IEF Gel electrophoresis and Iso Electric focusing using IEF strips. The unit includes enhanced cooling over a large platform which offers increased strip capacity and gel area.

Uniform cooling of the platform is achieved using a large ceramic plate which can be connected to any standard chiller via quick fit connectors for enhanced gel or strip cooling.



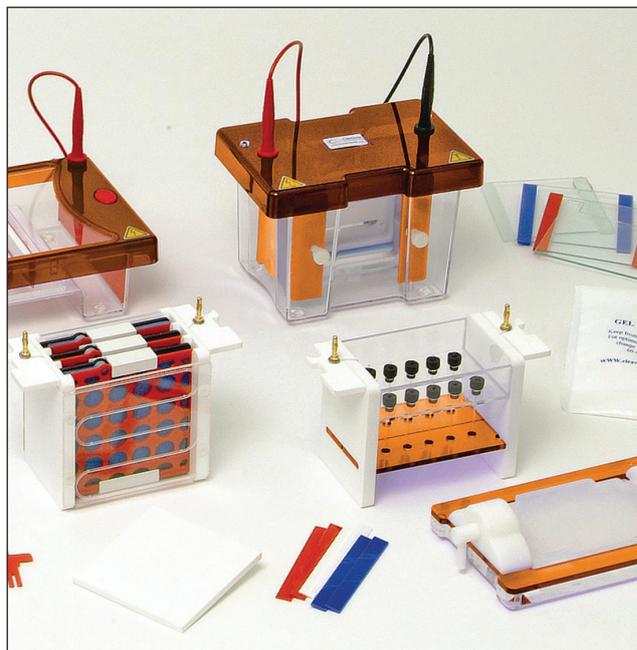
Technical Specifications

Max strip length	26cm
Max. gel dimensions	26 x 26cm
Unit dimensions (W x D x H)	55 x 35 x 10cm

Isoelectric Focusing

Catalogue Number	Description
EL7000	Flatbed IsoElectric Focusing System, 26 x 26cm
EL7010	Chiller

Clarit-E[®] Modular Systems



- Economy of bench space and cost
- Enhanced reproducibility
- Simple to use casting
- Rapid cooling set-up

The Clarit-E range of Modular Vertical Gel Systems allow multiple electrophoresis techniques to be performed in the same unit. Using the same main tank and lid, three different inserts are interchangeable for slab gel, tube gel and electroblotting techniques. These systems are available in three size options, Mini 10 x 10cm, Mini Wide 20 x 10cm and Maxi 20 x 20cm and are available as individual, combination or complete modular systems. Combination and modular systems offer maximum value and space and have the added benefit of increased consistency, which results from using the same universal base and lid.



Clarit-E[®] Mini, Mini Wide & Maxi complete Modular Systems

These systems include all modules and accessories required for Slab Gel Electrophoresis, 2-D Electrophoresis and Electroblotting. The central component is the Clarit-E Mini, Mini Wide or Maxi Vertical unit. These include a rapid and intuitive casting system, enhanced and easy to set up cooling system and have increased capacity – the Mini can run up to four gels per run. In addition, the Clarit-E Tube gel module is capable of resolving up to 10 first dimension gels and the Electroblotting module has a 3-blot capacity.

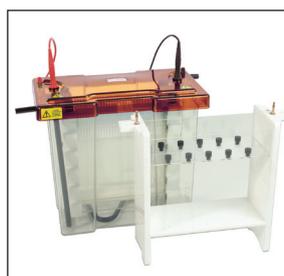
Complete Modular Systems include: Vertical tank with gel running module, 2x notched glass plates, 2x plain glass plates with bonded spacers, dummy plate, 2x combs, casting base, silicone mat, cooling pack, running module for tube gels, capillary tubes, blanking plugs, 2-D combs, spacers, electroblotting module, 3x compression cassettes and 6x fibre pads.

Clarit-E[®] 2-D Complete Systems

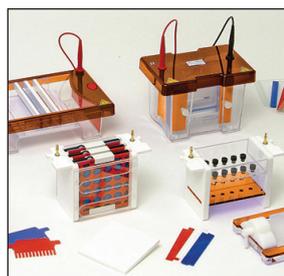
- Rapid set-up electrofocusing
- 10-tube capacity
- Extended accessory range
- Enhanced cooling features

The Clarit-E 2-D Systems include both modules required for Slab Gel and First Dimension Electrophoresis and accessories, to provide a complete Mini, Mini Wide or Maxi 2-D system. The Tube Gel Module includes a rapid release gasket for easy tube extraction. Focusing can be accomplished in as little as three hours in the Mini Unit. Disposable capillary tubes are included for added convenience, plus 2-D combs and spacers, which are colour coded according to thickness for easy identification.

Complete 2-D System comprising: Vertical tank with gel running module, 2x notched glass plates, 2x plain glass plates with bonded spacers, dummy plate, 2x combs, casting base, silicone mat, cooling pack, running module for tube gels, capillary tubes, blanking plugs, 2-D combs and spacers.



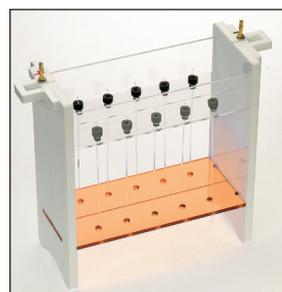
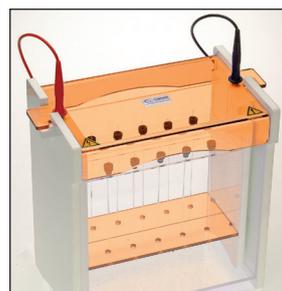
Modules included in the Clarit-E Maxi 2-D system



Modules included in the Clarit-E Mini Wide 2-D system

Clarit-E[®] Tube Gel Units, Inserts and Accessories

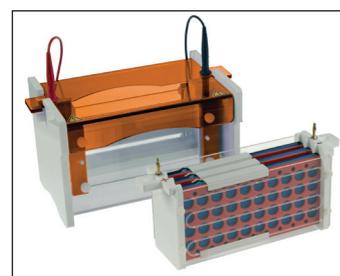
These stand-alone, complete units for first dimension capillary/tube gel electrophoresis are available in 3 sizes, Mini 10 x 10cm, Mini Wide 20 x 10cm and Maxi 20 x 20cm formats. Units are interchangeable with Clarit-E slab gel and electroblotting inserts.



Clarit-E Tube Gel Units comprise tank and lid, glass capillary tubes, blanking ports and cooling pack.

Clarit-E[®] Modular Electroblotting

- Hinged cassettes
- 3-blot capacity
- High intensity electrodes
- Rapid cooling set-up



The Clarit-E Electroblotting Systems include both modules required for Slab Gel Electrophoresis and Electroblotting and accessories, to provide a complete Mini, Mini Wide or Maxi gel casting, running and electroblotting system.

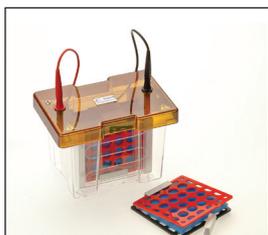
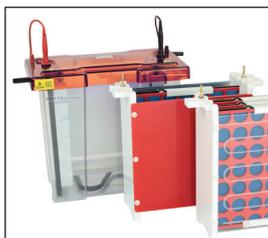
A high intensity current is generated by coiled platinum electrodes. These in conjunction with the advanced cooling features allow rapid electroblotting in as little as one hour.

Clarit-E Modular electroblotting system comprises: Vertical tank with gel running module, 2x notched glass plates, 2x plain glass plates with bonded spacers, dummy plate, 2x combs, casting base, silicone mat, cooling pack, electroblotting module, 3x compression cassettes and 6x fibre pads.

Clarit-E® Electroblotting Units

- Ideal for Western blotting of proteins
- Open design, rigid cassettes for maximum current transfer

These stand-alone, complete units for electroblotting, Mini, Mini Wide and Maxi formats, include Clarit-E tank and lid, electroblotting insert, cassettes and fibre pads. Units are interchangeable with Clarit-E slab and tube gel inserts. Hinged rigid cassettes allow rapid set up and convenience and ensure even contact between the gel and membrane is maintained.



Technical Specifications

Unit dimensions (W x D x H)	Mini	Mini Wide	Maxi
	19 x 13 x 15cm	26 x 16 x 16cm	26 x 16 x 28cm
Max. sample capacity	Mini	Slab 80 samples, 20 samples/gel, Tube - 10 tubes; Blot - 3 blots	
	Mini Wide	Slab 192 samples, 48 samples/gel, Tube - 10 tubes; Blot - 3 blots	
	Maxi	Slab 192 samples, 48 samples/gel, Tube - 10 tubes; Blot - 3 blots	
Buffer volume	Mini	Min 250ml; Max 1200ml	
	Mini Wide	Min 600ml; Max 2800ml	
	Maxi	Min 1200ml; Max 5600ml	

2-D and Electroblotting Modular Systems

Mini	Mini Wide	Maxi	Description
EL2200	EL2250	EL2300Z	Complete Electrophoresis System includes tube gel, blotting and vertical system
EL2320	EL2330	EL2340Z	Complete 2-D Electrophoresis includes tube and vertical system
EL2026	EL2096	-	Tube Gel Unit, with capillary tubes, blanking ports and cooling pack
EL2028	EL2098	EL2128Z	Tube Gel Insert includes glass tubes and blanking ports
EL2030	EL2030	EL2130	Capillary Tubes 1mm diameter
EL2356	EL2356	EL2132	Capillary Tubes 1.5mm diameter
EL2032	EL2032	EL2032	Capillary Blanking Ports
EL2400	EL2450	EL2500Z	Complete Blotting System includes vertical system and electroblotting
EL2402	EL2452	EL2502	Blotting System includes tank, 4 cassettes fibre pads and cooling pack
EL2404	-	-	Gel Tank and Blotting unit
EL2034	EL2114	EL2134	Blotting insert including cassettes and fibre pads
EL2036	EL2106	EL2136	Blotting Cassette
EL2038	EL2458	EL2138	Fibre Pads
EL2400-HI	-	EL2500Z-HI	Complete high intensity blotting system (Vertical system and blotting insert)
EL2034-HI	-	EL2134Z-HI	High-intensity blotting insert inc. cassettes and fibre pads

Clarit-E® Accessories

Gradient Mixers

Ideal for Caesium, Sucrose and Gel gradients these Gradient Mixers comprise two chambers – a reservoir and a mixing chamber with an interconnecting valve. A second valve regulates the output flow from the mixing chamber. All mixers have a flat base which allows them to be placed on a magnetic stirrer. A magnetic stirring bar can be placed directly in the mixing chamber to ensure a constant gradient. The support rod allows the mixer to be fixed to a retort stand for extra stability.



Gradient Mixers

Catalogue Number	Description
EL2600	15ml Gradient Mixer
EL2610	25ml Gradient Mixer
EL2615	50ml Gradient Mixer
EL2620	100ml Gradient Mixer
EL2625	500ml Gradient Mixer

Plate Racks

These sturdy racks are designed for safe drying and storage of glass plates. The small rack can hold up to 20x 2mm thick plates while the larger rack can accommodate up to 10x 5mm thick glass plates.



Plate Racks

Catalogue Number	Description
EL2630	Mini Glass Plate Rack for 20 x 2mm plates
EL2640	Large Glass Plate Rack for 10 x 5mm plates

Gel Staining/Blot Boxes

The ideal accessory for incubating blots or staining gels.

The smallest box has dimensions of 9.1 x 6.6cm and a capacity for 3-5ml of solution and is perfect for incubating cut blot strips.

The next box in the range holds 6-10ml of solution and is appropriate for mini gels and blots up to 11.7 x 8.9cm.

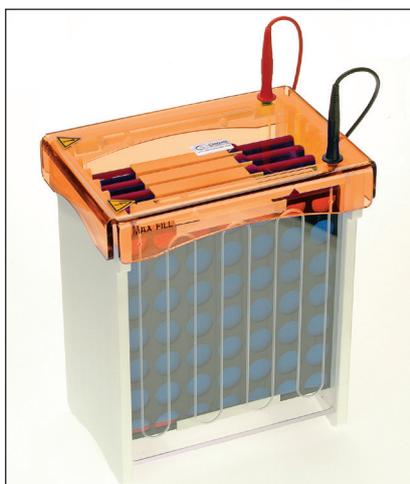
Two larger boxes, available in single packs, can be used for staining gels or incubating blots up to 12 x 12cm or 20 x 16.5cm respectively.

Blot boxes

Catalogue Number	Description	Pack Size
EL9082	Gel/Blot box 9.1 x 6.6cm	10
EL9084	Gel/Blot box 11.7 x 8.9cm	10
EL9086	Gel/Blot box 12 x 12cm	Each
EL9088	Gel/Blot box 20 x 16.5cm	Each

Clarit-E Tank Sub Electroblotters

- Ideal for wet electroblotting of proteins – Western blotting
- Up to five gel blot cassettes utilised at any one time
- Hinged cassettes for added convenience
- Accommodates gel thicknesses from 0.25 up to 3mm



Tank Sub Electroblotters offer a combination of increased capacity with money saving features. Both units, Mini 10 x 10cm and Maxi 20 x 20cm, have increased capacity over standard systems. This is especially useful in high throughput laboratories.

A uniform electric field is provided by a high intensity coiled electrode and ensures uniform transfer across the blot surface. The cassette's open architecture ensures the maximum blot area allows direct transfer of current. Its rigid construction ensures contact between the gel and membrane is retained throughout the blot and an even pressure is maintained. These units are compatible with magnetic stirrers to aid heat dispersal and prevent pH drifts in the buffer due to incomplete buffer mixing. Each system includes a cooling pack to further enhance transfer efficiency by removing excess heat. This also saves on buffer for added economy.

Technical Specifications

Unit dimensions (W x D x H)	Mini	Maxi
	19 x 13 x 19cm	24 x 16 x 26cm
Max. sample capacity	5 Blots, 10 x 10cm	5 Blots, 20 x 20cm 20 Blots, 10 x 10cm
Buffer volume	Mini Maxi	Min 1400ml; Max1500ml Min 4300ml; Max 6000ml

Tank Sub Electroblotters

Catalogue Number	Description
EL2412	Electro Blot Mini, 10 x 10cm System for five cassettes, with tank and lid, 5x Cassettes, 12x fibre pads and cooling pack
EL2512	Electro Blot Maxi, 20 x 20cm System for five cassettes, with tank and lid, 5x cassettes, 12x fibre pads and cooling pack
EL2036	Tank Blot Mini Cassette
EL2038	Fibre Pads - pack of 6 for Vertical Mini
EL2136	Tank Blot Maxi Cassette
EL2138	Fibre Pads - pack of 6 for Vertical Maxi

Clarit-E Semi-Dry Electroblotters



- Rapid transfer times
- Western, Southern and Northern Blots
- Economic Transfers due to very low buffer volumes
- Screw down lid – Gels from 0.25 up to 10mm thick can be blotted

These Semi-Dry Blotters offer rapid transfer times for DNA, RNA and protein blotting - typically 15 to 30 minutes. All units can be used for all types of blotting via uncomplicated set up procedures. Each unit is compatible with their respective Clarit-E vertical gel system. The electrodes, comprising platinum coated anode and stainless steel cathode, will exhibit practically no corrosion and so provide many years of trouble-free use. Uniform heat dispersion across the blot sandwich ensures stable transfer times and no heat induced sample loss or transfer distortions. The two larger format systems are translucent, enabling viewing of the blot sandwich to ensure correct positioning and transfer is occurring. Electrode plates are fully separated to prevent arching or damage.

Technical Specifications

Unit dimensions (W x L x H)	Mini	Maxi
	16 x 16 x 7cm	26 x 26 x 7cm
Max. sample capacity	Mini Maxi	1 Blot, 10 x 10cm 1 Blot, 20 x 20cm 4 Blots, 10 x 10cm
Buffer volume	Mini Maxi	5ml 20ml

Semi Dry Electroblotters

Catalogue Number	Description
EL2460	Semi Dry Mini Blotter 10 x 10cm system
EL2465	Semi Dry Maxi Blotter 20 x 20cm system

Clarit-E® Dot and Slot Blotters

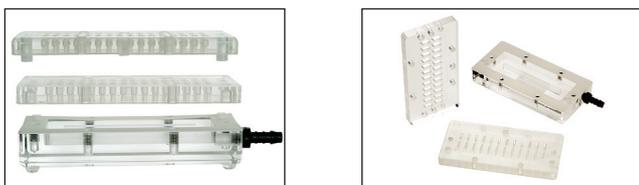


- Low cost
- Simple construction
- Easy assembly
- Alphanumeric sample identification

Four different sample number size and styles of Hybridisation Manifold are offered: 48- or 96-Well dot blotter and 24 or 48-Well slot blotters.

Typical applications include clone screening with DNA/ RNA probes in Southern/Northern blots and immunological screening with antibodies in western blots.

The units incorporate precision lapped surfaces to ensure uniform blotting membrane contact and a leak-proof gasket. These prevent lateral transfer of samples – smudging – by ensuring that a complete vacuum is formed. Six thumbscrews ensure even and tight sealing for fast sample suck down.



Technical Specifications				
Model	EL2448	EL2496	EL2524	EL2548
Configuration	3 x 16	8 x 12	2 x 12	3 x 16
Size of Well	6mm dia. 12mm deep	6mm dia. 12mm deep	6 x 0.5mm 12mm deep	6 x 0.5mm 12mm deep
Vacuum required	600mg Hg 0.8 BAR with cold trap			
Unit dimensions (W x L x H)	60 x 95 x 100cm	60 x 105 x 140cm	60 x 74 x 83cm	60 x 95 x 100cm
Membrane sizes required	12.1 x 4.4cm	11 x 7.4cm	12.1 x 4.4cm	12.1 x 4.4cm

Dot and Slot Blotters	
Catalogue Number	Description
EL2448	Dot Blotter 48 sample
EL2496	Dot Blotter 96 sample
EL2524	Slot Blotter 24 sample
EL2548	Slot Blotter 48 sample

Clarit-E® Gel Drying

Dryer

With a drying area of 21 x 31cm, the Midi gel dryer can dry six 10 x 10cm gels or a single larger gel. The Maxi Gel Dryer with a 35 x 45cm drying area can dry twelve 10 x 10cm mini gels simultaneously. The unit's microprocessor controls temperature and time, each parameter being displayed on its own LED display. The gels are heated from the base plate while the vacuum removes the moisture from below to dry the gel homogeneously. These dryers feature optimal sealing using a silicone rubber cover and supporting mask.



Technical Specifications	
Dryers -	
Temperature Increment	0.1C
Temperature Calibration	Yes
Temperature Uniformity	0.2C
Timer	1-999 mins
Drying area	Midi 21 x 31cm, Maxi 35 x 45cm
Operating Temp. Range	Ambient to 90C
Dimension (W x L x H)	Midi 30 x 36 x 8cm, Maxi 44 x 50 x 8cm
Pump -	
Condenser vapour capacity	1.5L
Dimensions (W x L x H)	35.5 x 28.5 x 39cm

GelMaster™ Vacuum Pump

- Two pumps in one – vapour trap and high efficiency diaphragm pump
- Environmentally friendly – traps and contains vapours



The room temperature vapour trap acts as a pump by condensing the hot vapours from the gel dryer and trapping them from the rest of the systems. The high efficiency diaphragm pump, delivers a powerful, non-fluctuating vacuum for fast, smooth drying. GelMaster™ is so efficient it can be connected to 3 gel dryers simultaneously. 10-15 gels can be dried before the trap needs to be drained. The GelMaster™ trapping medium can be used repeatedly.

Gel Drying	
Catalogue Number	Description
EL8800	Midi Gel Dryer 220V, 21 x 31cm
EL8810	Maxi Gel Dryer 220V, 35 x 45cm
EL8815	Gelmaster Vacuum Pump
EL8830	Cellophane sheets for gel drying (30 x 30cm) - pack of 100
EL8835	Cellophane sheets for gel drying (35 x 45cm) - pack of 100

Clarit-E[®] Maxi and Midi Power Supplies



These 3 models of power supply cater for a wide range of applications. All 3 models have 5 output pairs, and can have voltage, current or power set as the constant parameter. Loaded with pre-set programmes for instant start up, or create and save your own protocols with up to 6 steps per programme. A 2.4" TFT-LCD Screen displays the current running parameters and allows the user to browse pre-set and saved protocols.

The convenient pause/resume key allows any run to be temporarily halted for inspection of the gel and restarted from the same position. A run time extendable to a maximum 999 minutes in constant mode is also useful for overnight transfers undertaken at constant low current in wire electrode systems.

Midi300

The Midi300 is a versatile multi-function power supply suitable for a wide range of electrophoresis applications. At 300V, 700mA and 150W the Midi300 has nearly twice the current and power of the market leading equivalent unit. Perfectly suited for use with the Clarit-E range of horizontal electrophoresis systems and Clarit-E Mini vertical electrophoresis systems.

Maxi500

With a maximum 500V, 800mA and 300W voltage, current and power output, the Maxi500 is an excellent general-purpose power supply that fits the broadest range of electrophoresis applications. Perfect for techniques that benefit from subtle and gradual stepwise changes in the electrical parameters as the run progresses, such as DGGE and large format vertical PAGE using Clarit-E Maxi Z electrophoresis systems.

Maxi3AMP

At 300V, 3000mA, 300W, the Maxi3AMP is designed for virtually all high current electrophoresis applications. The Maxi3AMP's higher current output capability is perfect for electroblotting units with high-intensity plate electrodes, particularly Clarit-E Maxi Z blotting system, Maxi Z vertical electrophoresis and semi dry blotting systems. Electrotransfers may be performed as timed runs in constant or programmable mode to prevent overheating and buffer depletion.

Technical Specifications

	EL2732	EL2742	EL2752
	Midi300	Maxi500	Maxi3Amp
Output Voltage / Inc.	5-300V / 1V	5-500V / 1V	5-300V / 1V
Output Current / Inc.	1-700mA / 1mA	1-800mA / 1mA	1-3000mA / 1mA
Output Power / Inc.	150W / 1W	300W / 1W	300W / 1W
Output Type	Constant Voltage ; Current ; Power		
Output Pairs	5 pairs for multiple gel tanks		
Display	2.4" TFT-LCD		
Program	Pre-setting; Up to 6-step, 30 programmed files		
Timer	Constant mode: 9999 (min) with alarm Programmable mode: 999 (min) with alarm		
Rated voltage	100-240V		

Maxi Power Supplies

Catalogue Number	Description	Application
EL2732	Midi300 Power Supply, 300V, 700mA, 150W	Routine horizontal electrophoresis using Clarit-E Mini, Midi and Choice Vertical Electrophoresis using Clarit-E Vertical Mini
EL2742	Maxi500 Power Supply, 500V, 800mA, 300W	Routine horizontal electrophoresis using Clarit-E Mini, Midi and Choice Vertical Electrophoresis using Clarit-E Vertical Mini Clarit-E DGGE Vertical Electrophoresis using Clarit-E Vertical Maxi Z
EL2752	Maxi3AMP Power Supply, 300V, 3A, 300W	Vertical Electrophoresis using Clarit-E MaxiZ Blotting using MaxiZ blotters and semi-dry blotters

Clarit-E[®] Mini-300 and Mini-500 Power Supplies



- Enhanced in-built safety features
- Conspicuous 3-digit LED
- Alarm function
- New wipe-clean polycarbonate housing

Superseding the MINI 150V and MINI 300V, the new Mini-300 and Mini-500 power supplies, offer many of the benefits of the MIDI power pack, for the price of a MINI unit. With enhanced features, such as a maximum constant current output of 400mA, and constant voltage up to 300V or 500V. The Mini-300 is capable of running all Clarit-E horizontal electrophoresis systems and vertical mini gel units, either on a continuous run or timed setting of up to 999 minutes.

The Mini-500 is also suitable to run the Mini Wide and Maxi Vertical units.

The user-friendly interface of the Mini-300 and 500 means adjustment in 1V and 1mA increments is easy, making it perfect for separations where precise settings are required.

Both Mini units have two pairs of parallel power terminals, which can run two electrophoresis units simultaneously, and combined with their ultra-compact size, can save time and bench space. A dual voltage rating ensures full portability, and allows easy transportation between laboratories irrespective of their geographical location.

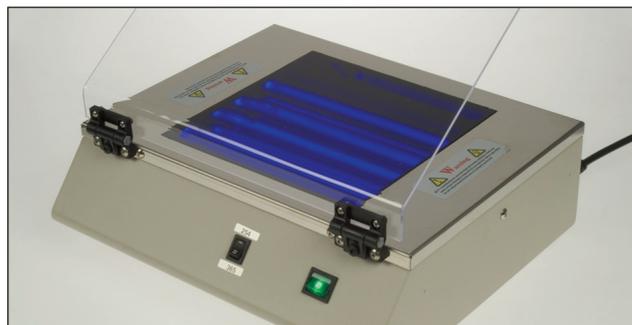
Technical Specifications

Mini	EL2705	EL2707
Voltage	10-300V	10-500V
Current	10-400mA	10-400mA
Max. Power	60W	120W

Mini-300 & Mini-500 Power Supplies and Accessories

Catalogue Number	Description	Pack Size
EL2705	Mini-300 Power supply, 300V, 400A, 60W	Each
EL2707	Mini-500 Power supply, 500V, 400mA, 120W	Each
EL2701	Power supply adapters, 4mm to 4mm	2
EL2702	Power supply adapters, 4mm to 2mm	2
EL2703	Power supply adapters, 2mm to 4mm	2

Clarit-E[®] Transilluminators



- Three wavelength options for added flexibility and convenience: 254/312/365nm
- Two dual-wavelength models
- Long life filter in two size options
- High efficiency reflector
- Hi/Lo intensity switch
- Fast start up

Available in single and dual wavelength formats, in 21 x 21cm and 21x26cm sizes, our transilluminators are supplied either as stand-alone units or with the gel documentation system, as part of a fully integrated system. With a large surface area, each transilluminator serves as the perfect workstation for viewing and working with fluorescently-stained protein and nucleic acid gels.

Standard features include a high/low intensity safety switch and an efficient starter that allows each of the six 8 Watt UV tubes to energise quickly without flickering, prolonging the working life of the UV tubes. Special filter glass minimises unwanted background light. All of these features maximise contrast and sensitivity, allowing even the faintest fluorescent gels to be viewed. Two dual-wavelength models offer added flexibility and convenience.

Technical Specifications

	Small	Large
Filter size	21 x 21cm	26 x 21cm
Light source	8W x 6 tubes	8W x 6 tubes
UV resistant plastic cover (W x D)	33 x 25cm	33 x 25cm
Unit dimensions (W x L x H)	34 x 29.5 x 10cm	34 x 29.5 x 10cm

Transilluminators

Catalogue Number	Description
EL4150	UV Transilluminator small, 21 x 21cm, 254nm
EL4160	UV Transilluminator small, 21 x 21cm, 312nm
EL4170	UV Transilluminator small, 21 x 21cm, 365nm
EL4200	UV Transilluminator small, 21 x 21cm, 254/365nm
EL4210	UV Transilluminator small, 21 x 21cm, 254/312nm
EL4230	UV Transilluminator large, 26 x 21cm, 254nm
EL4240	UV Transilluminator large, 26 x 21cm, 312nm
EL4250	UV Transilluminator large, 26 x 21cm, 365nm
EL4260	UV Transilluminator large, 26 x 21cm, 254/365nm
EL4270	UV Transilluminator large, 26 x 21cm, 254/312nm

Clarit-E[®] Gel Documentation System

- 18 Megapixel digital camera with improved high-sensitivity CMOS sensor and processor
- Image visualised within a large 8" TFT colour monitor
- Light weight compact hood with easy access door and built-in inner lights
- Safety switches disconnect the UV source when the easy access door is opened
- Computer-free operation
- Available on its own with camera and darkroom, or as a complete gel documentation system with transilluminator, either with or without software and wireless memory card



Technical Specifications	
Camera Type	Large APS-C CMOS sensor
Effective Pixels	18 megapixels
Maximum Aperture	f/3.5-5.6
Shutter Speed	30-1/4000 sec. (total range)
Filters	+3 Close up and EtBr; optional SYBR green
Storage Media	4GB memory card; optional Wi-Fi memory card
Computer Interface	Hi-Speed USB (Mini-B compatible)
Video Out	NTSC/PAL
Darkroom: Multi-power Source	For camera, inner white LED, TFT screen
Inner White Light	2 x 3W LED
Safety Device	Safety door switch
Weight & Dims	6.1kg; 29 x 22 x 32cm
Voltage Rating	110 ~ 220V
Screen: Resolution	600 x 800 pixels
Brightness	350 cd/mm ²
Constant Ratio	300 : 1
Display Mode	NTSC / PAL / SECAM mode, auto switching

Now upgraded to a new 18 megapixel digital camera with improved high-sensitivity CMOS sensor and the latest image processor to guarantee superb resolution, the Clarit-E Gel Documentation System is the researcher's choice for a simple ultra-compact gel documentation system that meets constraints in both budget and space within the laboratory. A large 8" TFT screen enables images, including agarose and fluorescent gels, colorimetric gels, autoradiography film and blotting membrane, to be captured in colour, clearly and easily. The system is computer-free and supplied with a 4GB storage card and 55mm ethidium bromide filter as standard, while an optional SYBR filter is also available. Files are saved onto the 4GB storage card in RAW, TIFF-RGB and JPEG formats and may be transferred to computer for analysis with the highly recommended TotalLab 1D software.

Wireless Transfer

This clever system includes convenient wireless transfer of images to a PC or smart device – no cable connection required.

The Clarit-E Gel Documentation System is a simple low-cost system comprising a lift-off dark room hood and 18 megapixel digital camera, through which the gel is viewed directly. This system can be supplied with optional TotalLab™ 1D Analysis Software and any one of our 21 x 21cm transilluminators. Transilluminators supplied in single and dual wavelength formats.

Gel Documentation System

Catalogue Number	Description
EL4000	Gel Doc System, including 18 megapixel digital camera, camera adaptor, 8" TFT colour screen, ethidium bromide filter, camera hood
EL4020	Gel Doc System with UV Transilluminator, 254nm
EL4010	Gel Doc System with UV Transilluminator, 312nm
EL4030	Gel Doc System with UV Transilluminator, 365nm
EL4040	Gel Doc System with UV Transilluminator, 254/312nm
EL4050	Gel Doc System with UV Transilluminator, 254/365nm
EL4080	Ethidium Bromide Filter
EL4090	SyBr Green Filter
EL4072	Thermal Printer with USB connection
EL4075	Replacement Paper for Thermal Printer
EL4100	UV to White Light Transilluminator Screen Converter
EL4002*	Gel Doc System with 1D analysis software

* Software can be included with any gel doc system - please enquire for pricing

** Please check for latest camera specifications

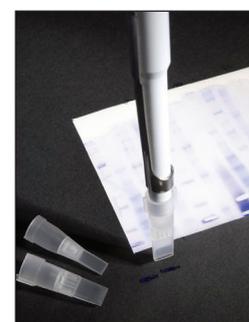
Clarit-E[®] Gel Cutting Tips

A great new tool for Gene Cloning

Rapid, precise and contamination free excision of spots and bands from gels

- Eliminates scalpel damage to transilluminator or gel tray
- Designed for removing bands from agarose and protein gels
- Easy gel slice transfer tips fit standard 1000µl pipettors
- Autoclavable
- DNase and RNase free
- Sterile racked versions are also available

No more scalpels required, these tips offer a unique and convenient way to excise bands from gels. Gel cutting tips allow complete single-handed and contamination-free removal of the gel band of interest. The gel band is neatly extracted and contained in the tip. It can then be simply dispensed into a tube and the used tip ejected and disposed of.



Gel Cutting Tips

Catalogue Number	Description
EL2650	Gel Cutting Tips 4mm x 1mm 250 / bag
EL2650R	Gel Cutting Tips 4mm x 1mm 5x rack of 48
EL2660	Gel Cutting Tips 6.5mm x 1mm 250 / bag
EL2660R	Gel Cutting Tips 6.5mm x 1mm 5x rack of 48

Heat, Cool, Mix, Stir, Separate, Shake

The multitude of tasks undertaken in most laboratories require a range of reliable workhorse equipment.

Having these close at hand on the bench top improves process work flows and efficiencies.

Our range of bench top equipment provides economical, hard-working tools to complete those routine every day tasks with maximum ease.

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Mini 3D Shaker
Vortex Mixer
PCR Workstation

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Hotplates and Stirrers



These hotplates, stirrers and hotplate-stirrers feature an exceptionally durable, chemical resistant, white ceramic work surface. Their space-efficient design (20 x 23cm footprint, 19cm square work surface) makes them ideal for use on crowded bench tops and inside cabinets.

Advanced micro-dispenser controls allow quick, precise adjustment and maintenance of speed and temperature. Safety indicator LEDs on the front panel indicate when the heating and/or stirring functions have been activated. All three models are compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels.

All models are supplied with a support rod for mounting thermometers and temperature probes.

Technical Specifications

Speed range	60 - 1500rpm
Temperature range	Ambient +5 to 380C
Platform	19 x 19cm
Control	Quick Adjustment Knobs
Dimensions W x D x H	20 x 23 x 11.5cm
Electrical Data	120V, 60Hz / 230V, 50/60Hz

Hotplate and Stirrers

Catalogue Number	Description	Pack size
EL9000	Hotplate, 19 x 19cm	Each
EL9010	Magnetic Stirrer, 19 x 19cm	Each
EL9020	Hotplate Magnetic Stirrer, 19 x 19cm	Each

Mini 3D Shaker

The Mini Shaker combines the motions of orbital shaking and rocking to produce a gentle, but thorough, 3-D action that is perfect for antibody incubation of Western blots and for staining gels.

The pitch and speed are optimised to generate a tilt angle that is large enough to ensure uniform distribution of solutions, yet small enough to prevent the centre of the blot from drying out. This has the added benefit of allowing users to work with minimal volumes, thus conserving valuable probes and antibodies.

A non-slip rubber mat keeps the boxes in place on the agitating platform, which, along with the housing, is very easy to clean and decontaminate after use.

The Mini Shaker's compact and light weight design allows it to be moved around the lab where needed. It is also safe for use in an incubator or cold room for temperature controlled reactions.

- The perfect speed and lift for blotting and gel staining
- Three-Dimensional motion
- Designed for use with Blot Boxes



Technical Specifications

Speed range	18rpm (115V) / 20rpm (230V)
Motion	3-D, nutating
Tilt Angle	5 degrees
Platform Size W x D	20 x 16.5cm
Ambient Operating Range	4 - 65C
Dimensions W x D x H	9.75 x 6.75 x 6in / 24 x 17.15 x 15cm
Weight	0.88kg
Electrical	115 or 230V 50/60Hz

Mini 3D Shaker

Catalogue Number	Description	Pack size
EL9080	Mini Shaker with 20 x 16.5cm tray, 2 x blotting boxes, non-slip mat	Each

Vortex Mixer

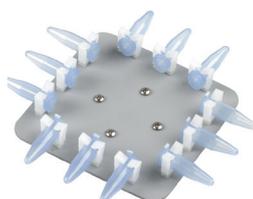
Alpha Laboratories' variable speed Vortex Mixer combines fast, efficient mixing with minimal vibration. Unlike other vortex mixers using elliptical orbits, the true circular orbit facilitates uniform sample vortexing even at low speed.

The CombiCup™ head, which is supplied as standard, accepts many different tube sizes, while the unique over-moulding technology used in its manufacture provides a sturdy plastic core with non-slip TPE that fits optional heads for microplates, microtubes, PCR strip tubes, 15ml and 50ml tubes and blood vials.

The Alpha Laboratories' vortex mixer may be used in 'touch' or continuous mode: 'touch' mode being activated by simply depressing the sample head and then stopped by releasing the pressure. An optimised counter balance system within the vortex mixer minimises vibration and movement of the unit during operation.

Its lightweight construction and small footprint allows it to be readily transported and used in areas where space is restricted. The vortex mixer is also safe for use in temperature-controlled environments, and may be used within a cold room.

- Touch or continuous mode
- Powerful, reliable motor with optimised counter balance
- Circular orbit for effective vortexing at any speed
- CombiCup head accepts a variety of tube sizes
- Versatile head attachment accessories for microplates and different tube sizes
- Suitable for a wide range of applications



Technical Specifications	
Speed range	115V: 0 - 3400rpm 230V: 0 - 2850rpm
Operating Modes	Touch or Continuous
Ambient Operating Range	4 - 65C
Dimensions W x D x H	5.5 x 6.3 x 5.1 in/14 x 16 x 13cm
Weight	4.84lb / 2.2kg
Electrical	115V or 230V, 50/60Hz

Vortex Mixer	
Catalogue Number	Description
EL5010	Vortex mixer with general purpose head
EL5012	Vortex Head - 32 x 0.2ml tubes or 4 x 8-strip tubes plus 24 x 0.5ml tubes and 24 x 1.5ml/0.2ml tubes
EL5014	Vortex Head - 1 x microplate or 64 x 0.2ml tubes or 8 x 8-strip tubes
EL5016	Vortex Head - 8 x 15ml and 8 x 12/13mm tubes
EL5018	Vortex Head - 6 x 50ml tubes
EL5020	Vortex Head - 12 x 1.5/0.2ml tubes, held horizontally
EL5022	Vortex Head - 4 x 15ml tubes, held horizontally
EL5024	Vortex Head - 2 x 50ml tubes, held horizontally

Mini PCR Workstation

You can eliminate contamination from your PCR reactions and other molecular biology applications with Alpha Laboratories' PCR Workstation, saving time, money and valuable samples. The Mini UV Workstation provides a convenient area for setting up PCR reactions in a nucleic acid free environment, thus limiting PCR reaction contamination.

Acting as a low cost alternative to a clean room, The powerful UV lights on the cabinet denatures nucleic acids in 5 to 30 minutes making them unsuitable for amplification. The cabinet incorporates safety features to prevent user exposure to UV light. The UV lights themselves are timer controlled and there are safety switches on the cabinet's doors, which turn off the UV lights when opened. The cabinet also acts as an efficient shield from beta radioactive emissions, and can therefore be safely used with isotopes such as ³²P.

Small and compact, the Mini UV Workstation is the perfect solution for laboratories constrained by space and budget. A reduced height and footprint allows the Mini UV Workstation to fit snugly and conveniently into those small areas within the laboratory that would otherwise remain unused.

- Inactivates nucleic acids in 5 to 30 minutes
- Doors fitted with safety switches
- Complete with four powerful, timer controlled UV bulbs
- Efficient decontamination of the complete work surface
- Suitable for work with ³²P
- For use with trays of size 68 x 54cm
Open base so must be used with a tray
- Dimensions (W x D x H) 560 x 350 x 510mm



Accessories

EL2670 Liners for PCR Workstation 68cm x 54cm

EL2680 General Purpose Tray 68 x 54cm - White

Technical Specifications

UV Lights	4 x 15 Watt
White Light	15 Watt
Dimensions (H x W x D)	510 x 560 x 350mm
Weight	12kg

Mini PCR Workstations

Catalogue Number	Description	Pack Size
UV1000	Mini PCR Workstation (requires additional base tray)	Each

Protective Trays and Liners

Protective spill trays and liners provide safe containment of spillages and lab bench protection. EL2670 and EL2680 are suitable for use with the Mini PCR Workstation



Protective Trays and Liners

Catalogue Number	Description	Pack Size
EL2661	Tray Liners APET 46x26cm	25
EL2662	Tray Liners APET 54x34cm	25
EL2670	Tray Liners APET 68x54cm for PCR Workstation	25
EL2671	Biohazard Tray 46x26cm, White	Each
EL2672	Biohazard Tray 54x34cm, White	Each
EL2680	General Purpose Tray 68 x 54cm, White, for PCR WS	Each
EL2682	General Purpose Tray 54x34cm, White + APET liner	Each
EL2674	Biohazard Tray 68x54cm, White + APET liner	Each

Contact Details



Use

Alpha Laboratories' products are recommended for *in vitro* applications only. They should not be used for handling materials that may be implanted, ingested or applied to individuals.

Handling

It is recommended that Alpha Laboratories' products are handled only by trained personnel. MSDS are available where applicable and can be requested from export@alphalabs.co.uk

Certification

If you require sterility or similar certification, please request by email detailing the catalogue and lot numbers with the type of certification required to export@alphalabs.co.uk

Terms

Terms are available on our website or upon request.

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Sort Code: 20-03-53

Swift Address: BARCGB21055

€ Euro IBAN: GB10 BARC 2003 5363 5289 99
(A/C: 63528999)

£ Sterling IBAN: GB18 BARC 2003 5300 0026 82
(A/C: 00002682)

\$ USD IBAN: GB09 BARC 2003 5382 9389 11
(A/C: 82938911)



Placing your order

Alpha Laboratories operate world-wide, with a network of laboratory supply companies, so all the products featured in this catalogue should be available to you from a local distributor.

However, should you require technical advice or experience problems with local supply, please do contact our Export Department who will be pleased to assist you.



Objednávejte zde

Společnost Alpha Laboratories spolupracuje s celosvětovou sítí výrobců spotřebního plastového laboratorního zboží. Všechny produkty obsažené v tomto katalogu jsou dostupné prostřednictvím Vašeho lokálního distributora.

V případě potřeby technických informací nebo doporučení, kontaktujte prosím naše oddělení exportu, které Vám rádo pomůže tyto problémy vyřešit.



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Alpha Laboratories har et verdensomspændende netværk af leverandører af laboratorieprodukter. Derfor bør alle produkterne der er præsenteret i dette katalog være tilgængelig for dig hos din lokale leverandør.

Skulle du have behov for tekniske råd eller har problemer med den lokale leverandør, er du velkommen til at kontakte vor Eksport afdeling.



Bestellinformationen

Alpha Laboratories ist weltweit durch ein dichtes Netz von Laborfachhändlern vertreten. Somit sind alle Produkte dieses Kataloges überall verfügbar.

Wenn Sie aber technische Beratung benötigen, die über den üblichen Support Ihres Laborfachhändlers hinausgeht, oder wenn Ihnen, unsere Produkte betreffend, irgendwelche Probleme begegnen sollten, können Sie jederzeit mit unserer Exportabteilung Kontakt aufnehmen.



Como hacer un pedido

Alpha Laboratories estan representados por un red mundial de proveedores de equipo de laboratorio entonces casi todos los productos ilustrados en este catálogo se pueden comprar en su region.

Por todo problema técnico o algún problema de existencias, contactar nuestro Servicio de Exportaciones.



Comment passer vos commandes

Alpha Laboratories sont présents mondialement à travers un réseau de fournisseurs de matériel de laboratoire, ce qui permet d'obtenir localement la plupart des produits illustrés dans ce catalogue.

Cependant, pour tous conseils techniques ou en cas de difficulté d'approvisionnement local, n'hésitez pas à contacter notre service Export.



Come ordinare

La Alpha Laboratories, che opera a livello mondiale attraverso una rete di Aziende specializzate nella fornitura di materiale da laboratorio, ha il piacere di comunicare che tutti i prodotti rappresentati in questo catalogo possono essere richiesti direttamente al Distributore locale.

Per informazioni tecniche e ulteriori chiarimenti potrete comunque rivolgerVi al nostro Ufficio Export che sarà lieto di fornirVi la necessaria assistenza.



Orderinformatie

Alpha Laboratories is wereldwijd vertegenwoordigd door een netwerk van distributeurs. Hierdoor zijn alle producten uit deze catalogus verkrijgbaar via uw eigen distributeur.

Indien u de lokale distributeur niet kent, dan kunt u hiervoor contact opnemen met onze afdeling export. Tevens kunt u ook voor technische vragen bij onze afdeling export terecht. Wij staan u graag te woord met een deskundig advies.



Como fazer um pedido

Alpha Laboratories está representada mundialmente através de uma rede de fornecedores de material e equipamentos de laboratório, por isso os produtos que constam deste catálogo estarão ao seu dispor num distribuidor local.

Caso precise de assistência técnica ou tenha algum problema com o distribuidor local, por favor, contactem-nos. Estaremos ao seu dispor no nosso departamento de exportação.



Tilaukset

Alpha Laboratorieksella on yhteistyöyhteyksiä ympäri koko maailman. Omalta edustajaltanne voitte tilata kaikkia luettelossa olevia laboratoriotarvikkeita. Paikallinen edustajamme auttaa Teitä myös kaikissa teknisissä kysymyksissä. Jos kuitenkin tahdotte ottaa yhteyttä niissä suoraan vientiasastoomme, niin autamme mielellämme.



Orderinformation

Alpha Laboratories har ett världsomfattande nätverk av leverantörer av laboratorieprodukter. Därför bör alla produkterna presenterade i denna katalog vara tillgängliga för dig från din lokala leverantör.

Om du ändå skulle behöva tekniska råd eller har problem med den lokala leverantören, ta gärna kontakt med vår exportavdelning.

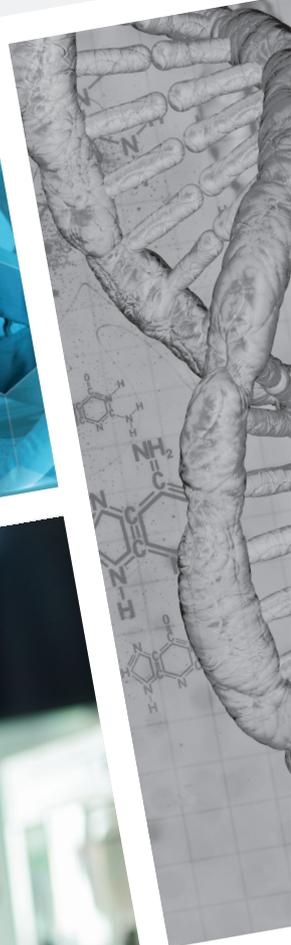


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International catalogue