

**Plates, Strips and Sealing for PCR,  
Real Time PCR & Sequencing**

EuroClone PCR consumables are made for a variety of thermal cyclers, real-time PCR systems and sequencers for optimal cycling performance.

### **Manufacturing & Quality Control**

All plastic consumables are produced under clean-room conditions in modern injection moulding facilities. Particles, bacterial cells and other contaminants are filtered from the atmosphere. Products undergo a wide range of QC inspections during and after the production process. Visual and biological tests ensure both the absence of contaminants and the integrity of the quantitative PCR. In particular, the absence of nucleases (DNases and RNases), pyrogens and human genomic DNA is verified by functional GC. LAL-assays are used to test raw materials and finished products for the presence of endotoxins.

### **Barcoding**

All skirted and semi-skirted plates are available with linear barcodes for identification and traceability. The labels are highly scratch resistant and can withstand cold storage (-80°C) and solvents, such as DMSO. Either single or double barcodes are available.

*FrameStar® PCR plates are covered by one or more of the following U.S. patents or their foreign counterparts, owned by Eppendorf AG: US Patent nos. 7,347,977 and 6,340,589*



## aura PCR

### **PCR Carry-over blocking cabinets**

AURA PCR cabinets are specially designed for pre-amplification sample preparation in controlled environment in order to prevent DNA carry-over.

- *Passive (non-ventilated) PCR cabinet*
- *Automatic switching from UV-neutralising mode to operational mode (fluorescent light)*
- *Easy to use 60 min timer with 1 min intervals*
- *Fully transparent work chamber, (robust and safe 6 mm tempered glass)*
- *100% UV-safe work chamber*
- *3-sectors hinged front window*
- *Internal hinged glass shelf for higher comfort and maximum space availability*
- *Polyethylene work surface for the highest chemical resistance*

*made in*  
**ITALY**

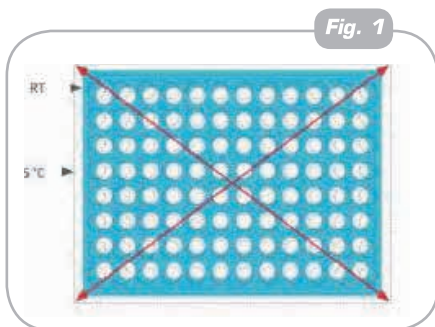
## Primo FrameStar® 2 components plates

Primo FrameStar® PCR plates maximise thermal stability at high temperatures preventing sample loss by minimising thermal expansion during PCR. The two-component design combines the advantages of thin wall polypropylene tubes for optimum PCR results and a rigid polycarbonate skirt and deck for highest thermal stability and rigidity. In contrast to standard one-piece PCR plates, evaporation from corner positions and outer rows is minimal, allowing for downscaling of reagent volumes and cost saving.

- Two-component technology reduces thermal expansion and sample evaporation.
- Reduction of evaporation leads to improved consistency of PCR results.
- Ideal for robotics, as plate distortion is eliminated post-PCR. Well spacing and position post-PCR remain accurate, so liquid handling devices can reliably add or remove the smallest quantities from the plate.
- FrameStar® is ideal for assay miniaturisation due to no-warping rigid skirt giving better sealing properties.
- Cost saving due to downscaling of reaction volumes.
- Lack of warpage reduces variation of fluorescent signals in optical assays, such as qPCR.

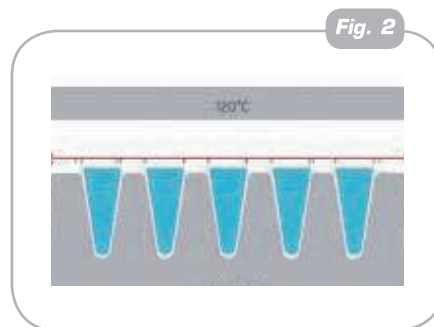
### Reduced evaporation and improved consistency of PCR results

Polypropylene (PP) is the optimum material for PCR tubes: it provides the most efficient heat transfer, as well as an inert surface with low binding capabilities for nucleic acids, proteins and other molecules. However, the material is not thermally stable in a plate format and expands and contracts during each PCR cycle (Fig. 1). Such thermal expansion will weaken the plate seal and leads to sample evaporation mainly from corner wells and outer rows. PCR blocks do not support PCR plates from the sides and the high temperatures from the thermal block and heated lid accelerate expansion of the plates (Fig. 2). Since thermal expansion and movement of wells in one piece PP plates is enhanced around the edges of the plates (see Fig. 1) evaporation is the highest from the two outer rows of wells. Figure 3 illustrates the levels of sample evaporation from different areas of PP plates. Only the inner 32 wells of a one piece 96well plate show low levels of evaporation, so sample loss is high from the two outer rows, meaning more than 65% of the wells.



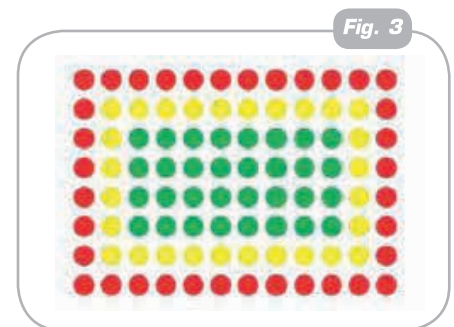
**Figure 1**

Standard plates with polypropylene frame expand by up to 2mm during thermal cycling leading to movement of wells away from the plate centre. This movement is most significant in corner positions and outer rows of the plate. Sealing sheets do not expand this rate and, as a consequence, they get weakened leading to evaporation especially in corner positions and outer rows.



**Figure 2**

Side-on view of a PCR plate in a thermal cycler. The sealed plate is sandwiched between the cycler block and the heated lid but it is only partly fixed in position at the bottom of tubes, allowing the plate to expand horizontally.



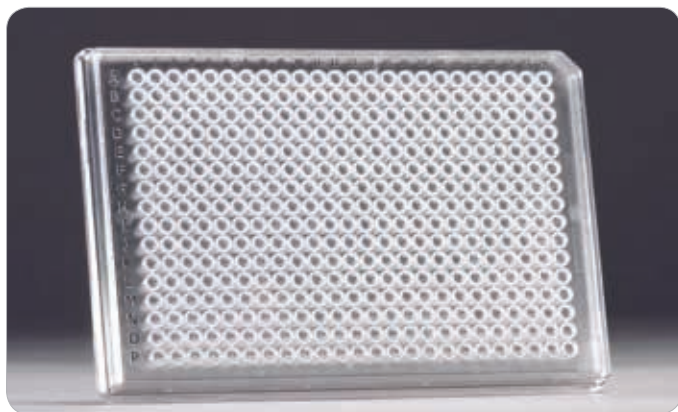
**Figure 3**

Evaporation from the outer rows (red) is highest, medium level evaporation occurs in the second row (yellow) and sample loss from the inner 32 wells is lowest.

## Primo® Framestar® 384 Well

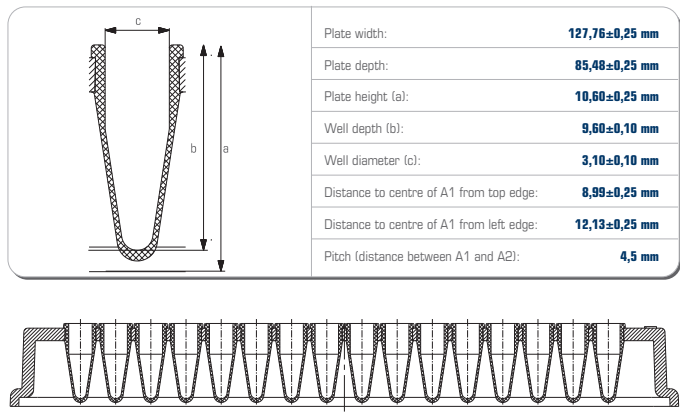
Designed for high-throughput PCR, FrameStar® 384 is compatible with the majority of 384 block PCR, qPCR and sequencing instruments. The rigid two-component design eliminates warping and distortion during PCR making it ideal for use with robotic systems.

Cat.	Description	Qty/Bag
ECPCRO384C	Primo® Framestar® 384 well plate clear wells	50



### Features

- Recommended for low volume PCR
- Ideal for use with robotic systems
- Alphanumeric grid reference
- Compatible with majority of 384 block PCR, qPCR
- 30 µl recommended working capacity (55 µl max capacity)

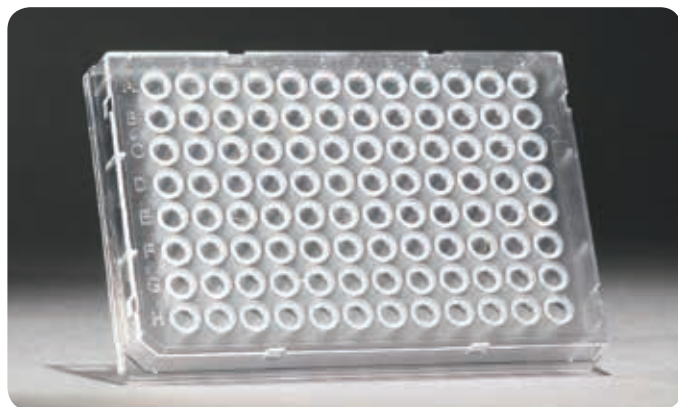


\* Please inquire for Roche Light Cycler® 480 Framestar® semi skirted plates

## Primo® Framestar® 96 Well Skirted Low Profile

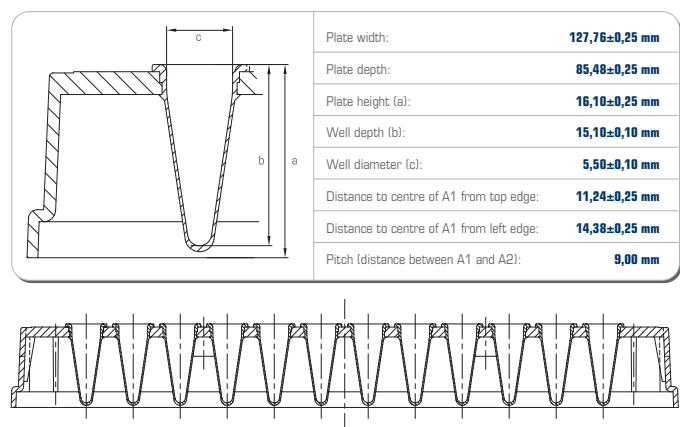
Low profile plates have shorter wells than standard profile plates, decreasing the “dead space” between the heated lid of the thermal cycler and the sample. This eliminates condensation on the side wall of the tube, preventing reduction in PCR volume and increasing the efficiency of the reaction. Low profile products are especially recommended for use with reaction volumes below 20µl. The rigid two-component design eliminates warping and distortion during PCR making it ideal for use with robotic systems.

Cat.	Description	Qty/Bag
ECPCRO960	Primo® Framestar® 96 Well plate Skirted Low Profile	50



### Features

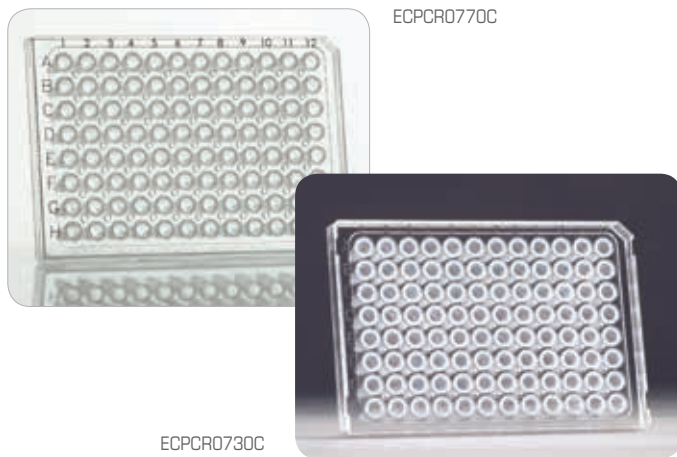
- Clear wells
- Raised well rims prevent cross contamination and facilitate sealing
- Suitable for cap sealing (ECPCRO751 and ECPCRO752), adhesive and thermal sealing
- Low profile
- 150 µl recommended working capacity (200 µl max capacity)



## Primo® Framestar® 96 Semi skirted Standard Profile (cut corner A12)

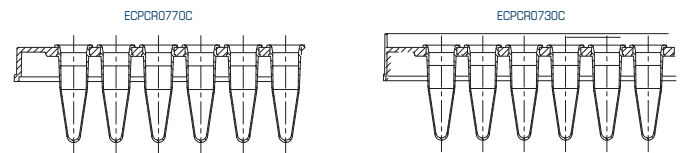
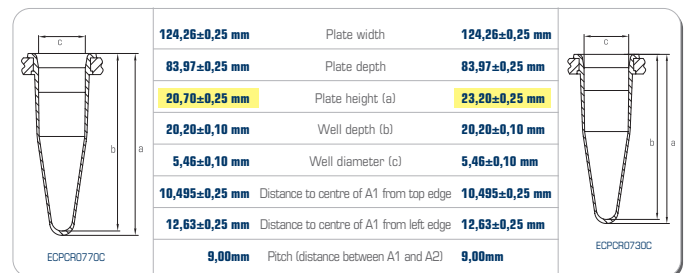
Specifically designed to be directly compatible with all major thermal cyclers including all ABI instruments, this plate can be used directly in ABI 96well instruments with no adapters necessary. The rigid two-component design eliminates warping and distortion during PCR making it ideal for use with robotic systems. The semi-skirt allows for labelling or barcoding. The plate is available also with upstand (ECPCRO730C).

Cat.	Description	Qty/Bag
ECPCRO770C	Primo® Framestar® 96 well plate, semi-skirted, clear wells	50
ECPCRO730C	Primo® Framestar® 96 well plate, semi-skirted with upstand, clear wells	50



### Features

- Optimised for ABI thermal cyclers & sequencers
- Cut-off corner at A12
- Clear wells
- Raised well rims prevent cross contamination and facilitate sealing
- Suitable for cap sealing (ECPCRO751 and ECPCRO752), adhesive and thermal sealing
- 250 µl recommended working capacity (300 µl max capacity)
- Available with upstand (ECPCRO730C)

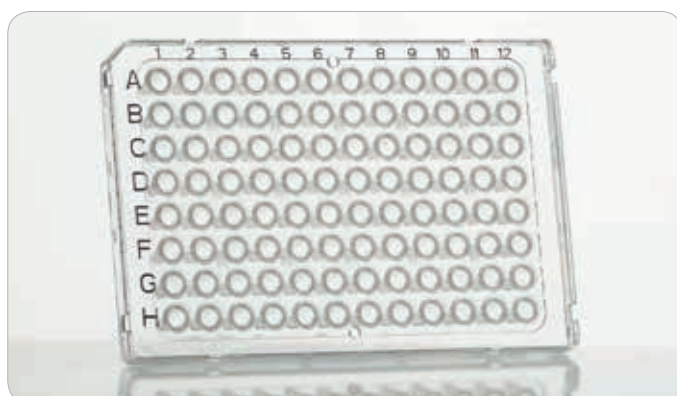


\* Please inquire for Roche Light Cycler® 480 Framestar® semi skirted plates

## Primo® FrameStar® Fast Plate 96 Semi skirted (recommended for ABI Fast Block Thermal cyclers)

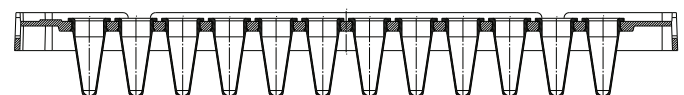
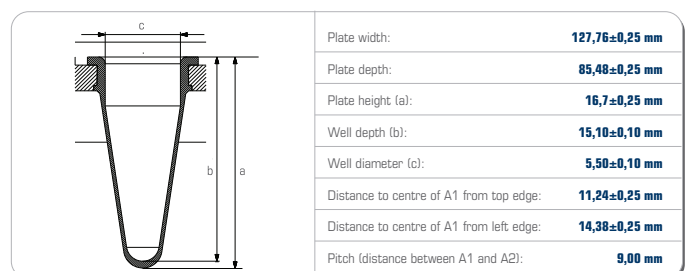
This semi-skirted low profile plate is recommended for ABI Fast Block thermal cyclers. Low profile plates have shorter wells than standard profile plates, decreasing the “dead space” between the heated lid of the thermal cycler and the sample. This eliminates condensation on the side wall of the tube, preventing reduction in PCR volume and increasing the efficiency of the reaction. Low profile products are especially recommended for use with reaction volumes below 20µl. The rigid two-component design eliminates warping and distortion during PCR making it ideal for use with robotic systems. The semi-skirt allows for labelling or barcoding.

Cat.	Description	Qty/Bag
ECPCRO910C	Primo® FrameStar® 96 well plate semi skirted, clear wells recommended for ABI Fast cyclers	50



### Features

- Recommended for ABI Fast Block thermal cyclers
- Clear wells
- Raised well rims prevent cross contamination and facilitate sealing
- Suitable for cap sealing (ECPCRO751 and ECPCRO752), adhesive and thermal sealing
- Low profile
- 150 µl recommended working capacity (200 µl max capacity)



## Standard Plates

The thin-walled tubes of EuroClone standard PCR plates maximise heat transfer and the raised rims facilitate sealing. The range consists of non-skirted, two semi-skirted and a fully skirted plate. The non-skirted plates are available also as Tear-A-Way PCR plates, two types of plates perforated either in the vertical direction, tearing into 8well strips, or in the horizontal direction, tearing into 12well strips.

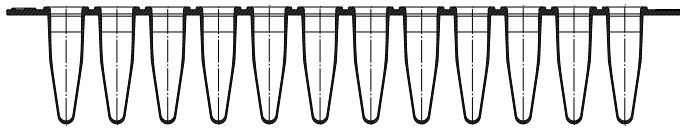
### Primo® 96 well Plate, Non-skirted

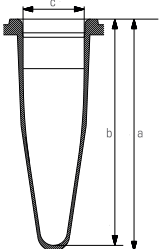
#### Features

- Compatible with most thermal cyclers and sequencers
- Clear wells
- Black grid reference for easy sample identification
- Cut-off corner at H12
- Raised well rims prevent cross contamination and facilitate sealing
- Suitable for cap sealing (ECPCRO751 and ECPCRO752)
- 250 µl recommended working capacity (300 µl max capacity)



Cat.	Description	Qty/Bag
ECPCRO750C	Primo® 96 well plate non-skirted, clear wells	50



	Plate width:	<b>120,00±0,25 mm</b>
	Plate depth:	<b>80,00±0,25 mm</b>
	Plate height (a):	<b>20,20±0,10 mm</b>
	Well depth (b):	<b>20,20±0,10 mm</b>
	Well diameter (c):	<b>5,46±0,10 mm</b>
	Distance to centre of A1 from top edge:	<b>8,75±0,25 mm</b>
	Distance to centre of A1 from left edge:	<b>10,75±0,25 mm</b>
	Pitch (distance between A1 and A2):	<b>9,00 mm</b>

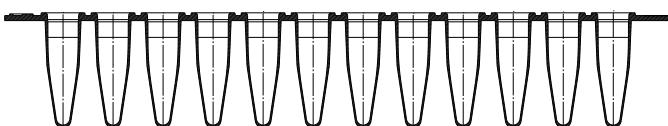
### Primo® Tear-A-Way 96 well PCR Plate, Non-skirted

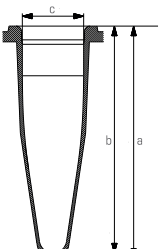
#### Features

- Horizontally or vertically perforated to enable accurate tearing into part plates and individual strips (8 well or 12 well)
- Every strip is usable
- Clear wells
- Compatible with most thermal cyclers and sequencers
- Black grid reference for easy sample identification
- Cut-off corner at H12
- Raised well rims prevent cross contamination and facilitate sealing
- Suitable for cap sealing (ECPCRO751, ECPCRO752 and ECPCRO788) and adhesive sealing (ECPCRO5008 and ECPCRO50012)
- 250 µl recommended working capacity (300 µl max capacity)



Cat.	Description	Qty/Bag
ECPCRO750CTA	Primo® TearAway 96 well Plate, non skirted, clear, divisible in 8 strip direction	50
ECPCRO750CTA12	Primo® TearAway 96 well Plate, non skirted, clear, divisible in 12 strip direction	50

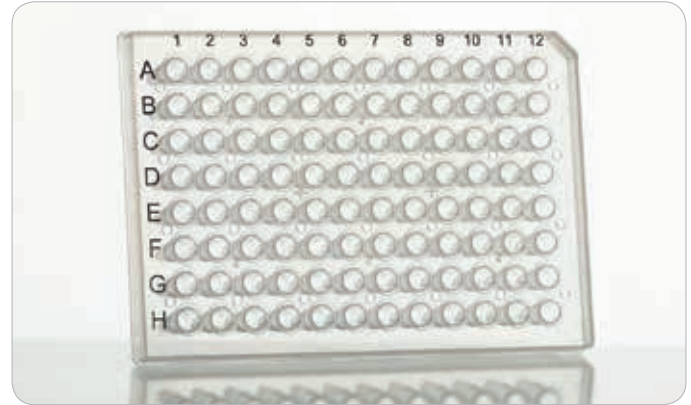


	Plate width:	<b>120,00±0,25 mm</b>
	Plate depth:	<b>80,00±0,25 mm</b>
	Plate height (a):	<b>20,20±0,10 mm</b>
	Well depth (b):	<b>20,20±0,10 mm</b>
	Well diameter (c):	<b>5,46±0,10 mm</b>
	Distance to centre of A1 from top edge:	<b>8,75±0,25 mm</b>
	Distance to centre of A1 from left edge:	<b>10,75±0,25 mm</b>
	Pitch (distance between A1 and A2):	<b>9,00 mm</b>

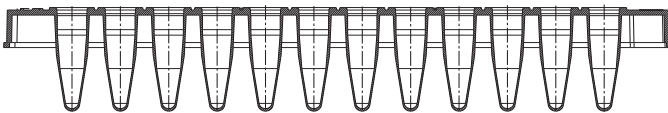
## Primo® 96 well Plate, Semi-skirted

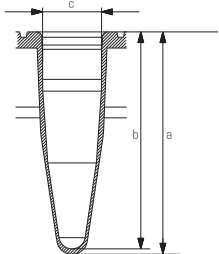
### Features

- Compatible with most thermal cyclers and sequencers
- Clear wells
- Black grid reference for easy sample identification
- Cut-off corner at A12
- Raised well rims prevent cross contamination and facilitate sealing
- Suitable for cap sealing (ECPCRO751 and ECPCRO752), heat and adhesive sealing
- Suitable for bar-coding
- 250 µl recommended working capacity (300 µl max capacity)



Cat.	Description	Qty/Bag
ECPCRO760C	Primo® 96 well plate Semi-skirted, clear wells	50



	Plate width:	<b>124,42±0,25 mm</b>
	Plate depth:	<b>84,02±0,25 mm</b>
	Plate height (a):	<b>20,70±0,25 mm</b>
	Well depth (b):	<b>20,20±0,10 mm</b>
	Well diameter (c):	<b>5,46±0,10 mm</b>
	Distance to centre of A1 from top edge:	<b>10,51±0,10 mm</b>
	Distance to centre of A1 from left edge:	<b>12,71±0,10 mm</b>
	Pitch (distance between A1 and A2):	<b>9,00 mm</b>

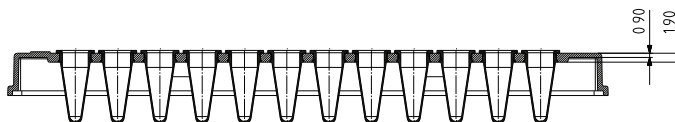
## Primo® 96 well Plate, Semi-skirted, low profile, optimized for LightCycler® 480

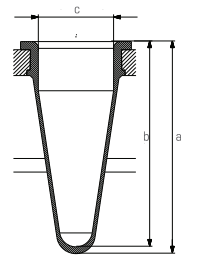
### Features

- Optimized for use with Lightcycle®480
- White wells, low profile
- Black grid reference for easy sample identification
- Cut-off corner at H12
- Raised well rims prevent cross contamination and facilitate sealing
- Suitable for cap sealing (ECPCRO751 and ECPCRO752), heat and adhesive sealing
- Suitable for bar-coding
- 150 µl recommended working capacity (200 µl max capacity)



Cat.	Description	Qty/Bag
ECPCRO955	Primo® 96 well qPCR plate Semi-skirted for LC480, white wells	50



	Plate width:	<b>127,70±0,25 mm</b>
	Plate depth:	<b>85,48±0,25 mm</b>
	Plate height (a):	<b>15,60±0,10 mm</b>
	Well depth (b):	<b>15,10±0,10 mm</b>
	Well diameter (c):	<b>5,50±0,10 mm</b>
	Distance to centre of A1 from top edge:	<b>11,24±0,25 mm</b>
	Distance to centre of A1 from left edge:	<b>14,38±0,25 mm</b>
	Pitch (distance between A1 and A2):	<b>9,00 mm</b>

\* Please inquire for Roche Light Cycler® 480 Framestar® semi skirted plates

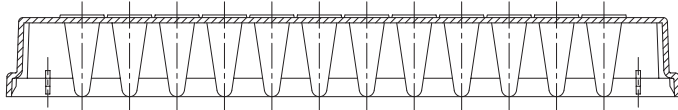
## Primo® 96 well Plate, Skirted, low profile

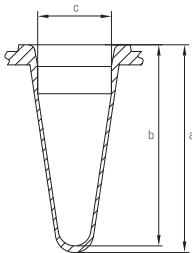
### Features

- Compatible with most thermal cyclers and sequencers
- Clear wells, low profile
- Black grid reference for easy sample identification
- Cut-off corner at H1
- Raised well rims prevent cross contamination and facilitate sealing
- Suitable for cap sealing (ECPCRO751 and ECPCRO752), heat and adhesive sealing
- Suitable for bar-coding
- 150 µl recommended working capacity (200 µl max capacity)



Cat.	Description	Qty/Bag
ECPCRO740C	Primo® 96 well plate Skirted, Low Profile, clear wells	50



	Plate width:	<b>127,76±0,50 mm</b>
	Plate depth:	<b>85,48±0,50 mm</b>
	Plate height (a):	<b>15,50±0,25 mm</b>
	Well depth (b):	<b>15,00±0,10 mm</b>
	Well diameter (c):	<b>5,50±0,10 mm</b>
	Distance to centre of A1 from top edge:	<b>11,24±0,25 mm</b>
	Distance to centre of A1 from left edge:	<b>14,38±0,25 mm</b>
	Pitch (distance between A1 and A2):	<b>9,00 mm</b>



## PCR Tubes & Strips

EuroClone tubes and cap strips are manufactured from virgin polypropylene in a Class 7 ISO certified cleanroom production facility. Strips are available in standard format and also with low profile tubes.

### Primo® PCR tubes

Cat.	Description	Qty/Bag
ECPCR02F	Primo® 0.2ml Individual PCR tubes, flat caps	1000
ECPCR02D	Primo® 0.2ml Individual PCR tubes, domed caps	1000



#### Features

- Flat and domed cap designs
- Suitable for all standard 0.2ml block thermal cyclers
- Snap-shut cap
- 0.25 ml recommended working capacity (0.3 ml max capacity)

### Primo® Tube Strips

The tubes are individually numbered for sample recognition and available with or without caps.

Cat.	Description	Qty/Bag
ECPCR0208	Primo® 0.2 ml, 8 tubes/strip. Clear wells	125
ECPCR0208D	Primo® 0.2 ml, 8 tubes/strip. Clear wells + domed caps	125+125
ECPCR0208F	Primo® 0.2 ml, 8 tubes/strip. Clear wells + flat optical caps	125+125

#### Features

- Suitable for most standard thermal cyclers
- Individually numbered tubes
- Can be cut into sections
- Available with domed or flat optical caps
- RNase, Dnase, human genomic DNA free
- 250 µl recommended working capacity (300 µl max capacity)



ECPCR0208D



ECPCR0208F

## Primo® low profile Tube Strips

Primo low profile PCR tube strips are available in clear polypropylene for standard PCR techniques. For fluorescent detection, like qPCR low profile PCR strips are available with white well tubes which give the highest sensitivity and the highest consistency as most of the fluorescence is reflected back to the detector.

Cat.	Description	Qty/Bag
ECPCRO754C	Primo® Low profile 8 tubes/strip. Clear wells + flat optical caps	120+120
ECPCRO754	Primo® Low profile 8 tubes/strip. White wells + flat optical caps	120+120



ECPCRO754



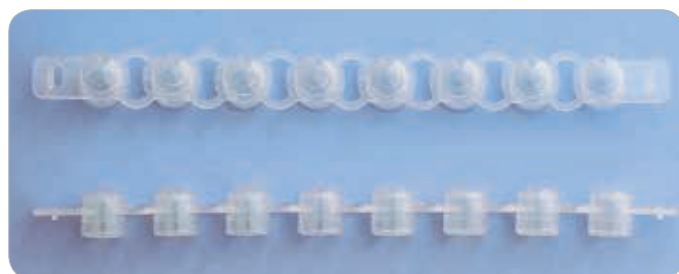
ECPCRO754C

### Features

- Low profile strips
- Available with either clear or white tubes
- Supplied with flat optical caps
- RNase, Dnase, human genomic DNA free
- 150 µl recommended working capacity (200 µl max capacity)

## Primo® Flat and Domed PCR Cap Strips

Cat.	Description	Qty/Bag
ECPCRO8D	Primo® strips of 8 domed caps ONLY for PCR tube strips	125
ECPCRO8F	Primo® strips of 8 flat optical caps ONLY for PCR tube strips	125
ECPCRO752	Primo® strips of 8 domed caps for PCR plates	300
ECPCRO751	Primo® strips of 8 flat optical caps for PCR plates	300
ECPCRO788	Primo® strips of 12 flat optical caps for PCR plates	200



ECPCRO752



ECPCRO8D - ECPCRO8F

### Features

- Flat caps are optically clear for fluorescence detection (e.g. qPCR)
- Easy to apply
- Large end tabs for easy removal
- Labelled for orientation

## Adhesive Sealing Tapes

EuroClone offers a wide range of adhesive sealing materials processed under strictly controlled environmental conditions and certified free from DNase, RNase and human genomic DNA.

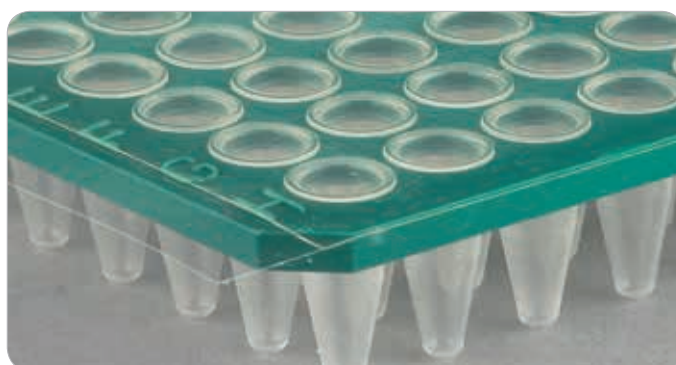
### Primo® PCR Seals

A strong polyester transparent adhesive seal recommended for PCR but it can also be used for qPCR and other optical applications. This seal enables a high seal integrity and efficiently prevents sample evaporation. The seal can be easily peeled from the plate. The PCR seal is also available in a flexible format with perforated sheets to enable tearing into 8 or 12 well strips. These seal allow the sealing of the complete 96 well plate but also individual or multiple Tear-A-Way strips.

Cat.	Description	Qty/Bag	Dimensions
ECPCR0500	Primo® Transparent Adhesive PCR Seal	100 sheets	135 x 80 mm
ECPCR05008	Primo® Transparent Adhesive PCR Seal perforated for division into 8 well strips	100 sheets	135 x 80 mm
ECPCR050012	Primo® Transparent Adhesive PCR Seal perforated for division into 12 well strips	100 sheets	135 x 80 mm

#### Features

- Application: PCR qPCR
- Peelable
- Adhesive free end tabs for ease of application and removal
- Seal integrity range: -20°C to 110°C
- Non sterile



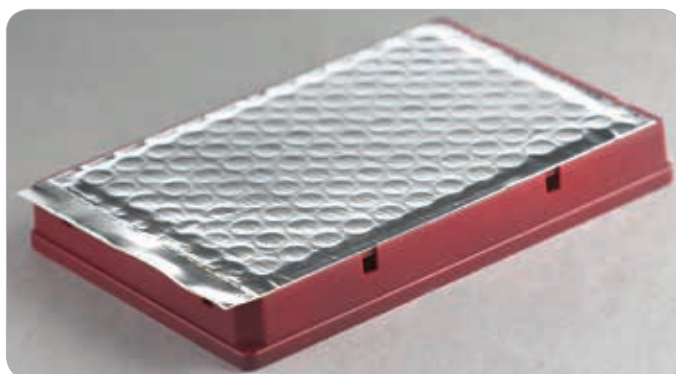
### Primo® PCR Aluminium Foil Seal

This aluminium foil seal has a strong acrylic adhesive which guarantees a high integrity sealing. It is recommended for PCR and other high temperature applications. It can be pierced and peeled.

Cat.	Description	Qty/Bag	Dimensions
ECPCR0550	Primo® Aluminium Foil Adhesive Seal	100 sheets	130 x 80 mm

#### Features

- Application: PCR
- Peelable
- Pierceable
- Perforated end tabs for ease of application and removal
- Seal integrity range: -40°C to 120°C
- Non sterile



## Q-Stick Primo® qPCR Seal

This seal combines the strong sealing properties of PCR seal (ECPCRO500) with improved optical properties thanks to 96 adhesive-free windows. It is recommended for qPCR and other optical applications. It can be easily peeled thanks to adhesive free end tabs.

Cat.	Description	Qty/Bag	Dimensions
ECPCRO565	Q-Stick Primo® Adhesive qPCR Seal	100 sheets	133 x 76 mm

### Features

- Application: qPCR and other optical applications
- Peelable
- Non pierceable
- Adhesive free end tabs for ease of application and removal
- Seal integrity range: -20°C to 110°C
- Non sterile



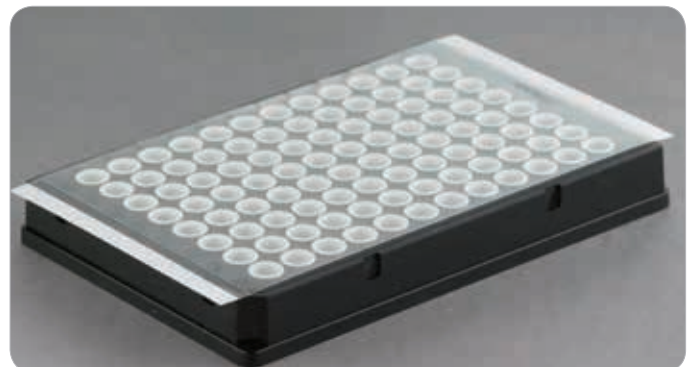
## Primo® qPCR seal

This optically clear seal has been specifically developed for optical applications, in particular qPCR. It is non-tacky to skin and gloves enabling ease of handling and application. This is a pressure activated seal: the polyester film has adhesive held within capsules on the underside and pressure must be applied to the top-side around the raised-well rims to activate the adhesive.

Cat.	Description	Qty/Bag	Dimensions
ECPCRO560	Primo® qPCR Adhesive Seal	100 sheets	135 x 80 mm

### Features

- Application: qPCR
- No adhesive to come into contact with samples
- Non-sterile
- Non-pierceable
- Peelable
- Seal integrity range: -40°C to 110°C



## Thermal Sealing

Heat sealing is the gold standard method for plate sealing. It minimises sample loss and maximises sample security for PCR, qPCR, storage and other applications. The sealing performance of heat seals is superior to cap, mat and adhesive sealing with clear reductions in sample loss and cross contamination.

The optimized sealing performance allows use of smaller reaction volumes leading to reagent savings.

EuroClone offers a choice of heat seals in both roll and sheet format. Different seals can be chosen to optimize the use depending on plate material, desired permeability or resistance, ability to peel or pierce the seal material and visualisation through the material. All seals are certified free from nucleases and human genomic DNA contamination.

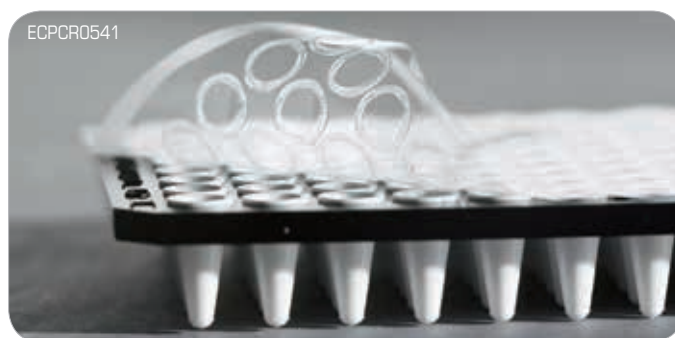
### Primo® Transparent seal I

This clear seal is recommended for PCR, qPCR and other optical applications.

Cat.	Description	Qty/Bag	Dimensions
ECPCR0541	Primo® Transparent Seal I	100 sheets	125 x 80 mm
ECPCR0540	Primo® Transparent Seal I	1 roll*	500 x 78 mm Approx 4200 seals
ECPCR0542	Primo® Transparent Seal I	1 roll**	350 x 115 mm Approx 4400 seals

#### Features

- Application: PCR, qPCR, short term compound storage
- Non-pierceable
- Peelable
- Non-sterile
- Seal integrity range: -80°C to 80°C (110°C with pressurised PCR heated lid)



ECPCR0541

### Primo® Transparent seal II

This clear seal is recommended for PCR, qPCR and other optical applications. This film forms a permanent bond to polypropylene plates that cannot be peeled and it is very difficult to pierce. It has a very good solvent resistance.

Cat.	Description	Qty/Bag	Dimensions
ECPCR0575	Primo® Transparent Seal II	100 sheets	125 x 80 mm

#### Features

- Application: PCR, qPCR, storage of hazardous material
- Non-pierceable
- Non-Peelable
- Non-sterile
- Seal integrity



\* Compatible with Thermo Fisher ALPS 300™ / ALPS 3000™ / KBiosystems Wasp™ / KBioscience FlexiSeal and Cube

\*\* Compatible with Agilent (Velocity 11) PlateLoc®

Rolls are also available on 150 mm for REMF sealers. Please enquire.

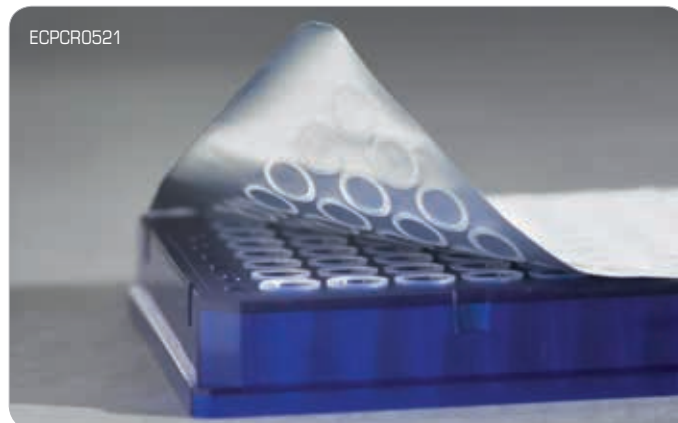
## Primo® Peelable seal

This is a laminate peelable seal that can be easily removed from polypropylene plates but not from polyethylene plates.

Cat.	Description	Qty/Bag	Dimensions
ECPCR0521	Primo® Peelable Seal	100 sheets	125 x 80 mm
ECPCR0520	Primo® Peelable Seal	1 roll*	610 x 78 mm Approx 5000 seals
ECPCR0522	Primo® Peelable Seal Seal	1 roll**	500 x 115 mm Approx 6250 seals

### Features

- Application: PCR, Low temperature, compound storage, short term room temperature compound storage
- Non-pierceable
- Peelable
- Non-sterile
- Seal integrity range: -200°C to 90°C (up to 110°C with pressurised PCR heated lid)



## Primo® DMSO resistant Peelable seal

This is a laminate peelable seal that can be easily removed from polypropylene plates but not from polyethylene plates.

Cat.	Description	Qty/Bag	Dimensions
ECPCR0587	Primo® Peelable Seal DMSO resistant	100 sheets	125 x 78 mm
ECPCR0585	Primo® Peelable Seal DMSO resistant	1 roll*	500 x 78 mm Approx 4200 seals
ECPCR0586	Primo® Peelable Seal DMSO resistant	1 roll**	500 x 115 mm Approx 6200 seals

### Features

- Application: PCR, Low and room temperature compound storage
- Resistant to 100% DMSO
- Non-pierceable
- Peelable
- Non-sterile
- Seal integrity range: -80°C to 40°C



\* Compatible with Thermo Fisher ALPS 300™ / ALPS 3000™ / KBiosystems Wasp™ / KBioscience FlexiSeal and Cube

\*\* Compatible with Agilent (Velocity 11) PlateLoc®

Rolls are also available on 150 mm for REMP sealers. Please enquire.

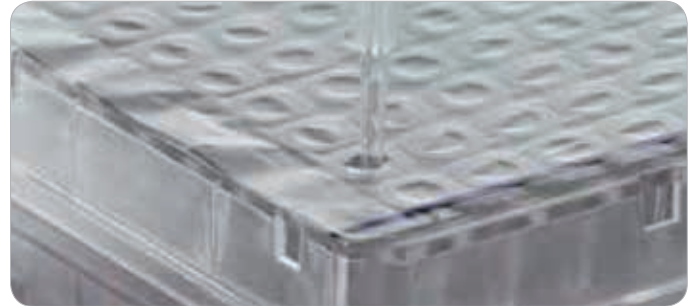
## Primo® Pierceable seal

This is a foil-based seal that can be easily pierced from polypropylene or polystyrene plates. It has a very good solvent resistance. A blue colour print identifies the non-sealing surface for ease of application. This seal remains intact to very high temperatures.

Cat.	Description	Qty/Bag	Dimensions
ECPCR0531	Primo® Pierceable Seal	100 sheets	137 x 76 mm
ECPCR0530	Primo® Pierceable Seal	1 roll*	610 x 78 mm Approx 5000 seals
ECPCR0532	Primo® Pierceable Seal	1 roll**	500 x 115 mm Approx 6200 seals

### Features

- Application: PCR, Low and room temperature compound storage
- Resistant to 100% DMSO
- Pierceable
- Non-sterile
- Seal integrity range: -20°C to 120°C



ECPCR0531

## Primo® Foil seal

This aluminium foil seal seals both to polypropylene and polystyrene and can be pierced and peeled. It has a very good solvent resistance. A red colour print identifies the non-sealing surface for ease of application.

Cat.	Description	Qty/Bag	Dimensions
ECPCR0536	Primo® Foil Seal	100 sheets	125 x 80 mm
ECPCR0535	Primo® Foil Seal	1 roll*	610 x 78 mm Approx 5000 seals
ECPCR0537	Primo® Foil Seal	1 roll**	500 x 115 mm Approx 6200 seals

### Features

- Application: PCR, Low and room temperature compound storage
- Resistant to 100% DMSO
- Pierceable
- Peelable
- Non-sterile
- Seal integrity range: -20°C to 110°C



ECPCR0536

\* Compatible with Thermo Fisher ALPS 300™ / ALPS 3000™ / KBiosystems Wasp™ / KBioscience FlexiSeal and Cube

\*\* Compatible with Agilent (Velocity 11) PlateLoc®

Rolls are also available on 150 mm for REMF sealers. Please enquire.

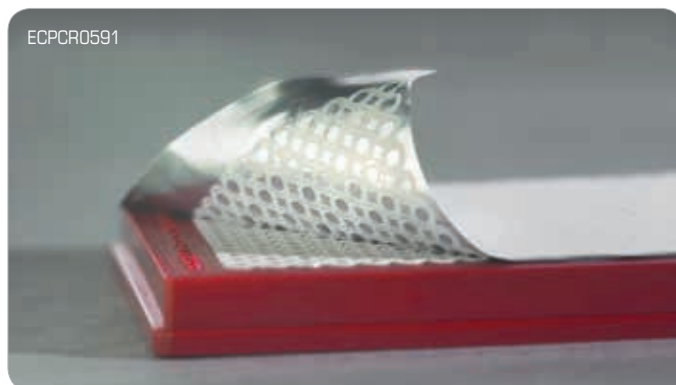
## Primo® Thermal Bond seal

This is a very strong polypropylene laminate thermal seal that can be peeled. It has a very good solvent resistance.

Cat.	Description	Qty/Bag	Dimensions
ECPCR0591	Primo® Thermal Bond seal	100 sheets	125 x 78 mm
ECPCR0590	Primo® Thermal Bond seal	1 roll*	500 x 78 mm Approx 4200 seals
ECPCR0592	Primo® Thermal Bond seal	1 roll**	300 x 115 mm Approx 3700 seals

### Features

- Application: PCR, Low and room temperature compound storage
- Resistant to 100% DMSO
- Non-Pierceable
- Peelable
- Non-sterile
- Seal integrity range: -200°C to 110°C



\* Compatible with Thermo Fisher ALPS 300™ / ALPS 3000™ / KBiosystems Wasp™ / KBioscience FlexiSeal and Cube

\*\* Compatible with Agilent (Velocity 11) PlateLoc®

Rolls are also available on 150 mm for REMP sealers. Please enquire.



- **Plate compatibility table**
- **Adhesive Seal comparison table**
- **Thermal Seal comparison table**



Standard Thermal Cyclers

Standard Thermal Cyclers																												
ABI Life Technologies						Bioer					BioRad				BioRad MJ Research		Eppendorf			EuroClone Bioer								
Veriti 384 well Block	Veriti 0.1 ml 96 well Block	Veriti 0.2 ml 96 well Block	GeneAmp® 2400	GeneAmp® 2700/2720/9600	GeneAmp® 9700	GeneAmp® 9800 FAST Block	XP Cycler	Gene Pro	Little Genius	Life-Express	GeneQ	LifePro	C1000	Genecycler	iCycler™	MyCycler™	S1000	T100	Mini Gradient	PTC100™ (96-well block only)	DNA Engine™, DNA Dyad™, DNA Tetrad™	M384	MasterCycler®	MasterCycler® EP Gradient	MasterCycler® Gradient	EuroCycler Flex	EuroCycler Mini	EuroCycler 96 Gradient

FrameStar® Plates

ECPCR0384C 384 well	x				x		x	x					x				x				x	x					x		
ECPCR0960C 96 well skirted								x				x	x							x	x			x	x	x			x
ECPCR0770C 96 well semi-skirted			x		x	x		x					x		x	x	x	x		x	x		x	x					
ECPCR0730C 96 well semi skirted with upstand			x		x	x																							
ECPCR0910C 96 well semiskirted		x				x																							

Standard Plates

ECPCR0750C/ECPCR0750CTA 96 well unskirted					x	x				x	x	x	x	x	x	x	x	x	x	x	x			x	x				x
ECPCR0760 96 well semiskirted			x		x	x		x					x		x	x	x	x		x	x		x	x					
ECPCR0740C 96 well skirted								x				x	x							x	x			x	x	x			
ECPCR0955 semiskirted for LC Roche. White wells																													

Tubes and Strips

ECPCR0208D/ECPCR0208F 8 tube-strips					x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x
ECPCR0754C/ECPCR0754 8 tube-strips low profile		x						x				x	x				x			x	x		x	x	x	x				x

\* Please inquire for Roche Light Cycler® 480 Framestar® semi skirted plates



## Adhesive Sealing Films & Foils

Description	Primo® Adhesive PCR seal	Primo® Q-Stick for qPCR	Primo® qPCR seal
<b>Cat.</b>	<b>ECPCR0500</b>	<b>ECPCR0565</b>	<b>ECPCR0560</b>
Type	Adhesive	Adhesive	Adhesive
Application	PCR	qPCR, fluorescence. 96-well microplates only	qPCR & other fluorescent applications
Special Properties	Good optical clarity.	Discreet optical windows for 96-well plates	Good optical clarity
Min Temp	-20°C	-20°C	-4°C
Max Temp	110°C	110°C	110°C
Sterile	No	No	No
Pierceable	No	No	No
Peelable	Yes	Yes	Yes
RNase/DNase free	Yes	Yes	Yes
Measurements (mm)*	Total = 137, Adhesive = 117 (no tear strips)	Adhesive = 119 (inside tear strips)	Adhesive = 116 (inside tear strips)

All Adhesive Sealing Films & Foils have width of 80 mm

## Heat Sealing Films & Foils

Description	Primo® Transparent Seal I	Primo® Transparent Seal II	Primo® Transparent Seal For ABI 3730 Sequencer	Primo® Peel-Seal heat sealing
<b>Cat. Roll 78mm<sup>1</sup></b>	<b>ECPCR0540</b>	-	-	<b>ECPCR0520</b>
<b>Cat. Roll 115mm<sup>2</sup></b>	<b>ECPCR0542</b>	-		
<b>Cat. Pack of 100 sheets (125mm x 78mm)</b>	<b>ECPCR0541</b>	<b>ECPCR0575</b>	<b>ECPCR0581</b>	<b>+ ECPCR0521</b>
Type	Heat	Heat	Heat	Heat
Application	qPCR, short term compound storage.	PCR (esp. water bath), qPCR. Storage & disposal of hazardous materials.	For use with ABI 3730 Sequencer.	Low temperature, compound storage, short term room temperature compound storage (<5 days), PCR.
Special Properties	Good optical clarity. Moderate solvent resistance	Good optical clarity & resistant to DMSO.	Good optical clarity, some solvent resistance.	Can be peeled directly from -80°C freezer. Moderate resistance to solvents at room temperature.
Min Temp	-80°C	80°C	80°C	80°C
Max Temp	80°C (or 110°C with pressurised PCR heated lid)	110°C	80°C (or 110°C with pressurised PCR heated lid)	110°C
Sterile	No	No	No	No
Pierceable	No	No	Yes	No
Peelable	Yes	No	No	Yes
RNase/DNase free	Yes	Yes	Yes	Yes
Material	Laminate	Laminate	Polymer	Laminate
Seals to	PP, PE, PS, COC	PP	PP, PE, PS, COC	PP
Roll length mm (78mm width)	500	610	610	600
Roll length mm (115mm width)	350	500	500	500

<sup>1</sup> 100% DMSO can be stored at room temperature for 12 months with no deterioration of the seal quality

\* Available as sterile on request

+ Roll of 1000 Perforated Sheets

# Supplied on a perforated roll

Primo® PCR foil seal	Primo® solvent resistant seal	Primo® microplate seal
<b>ECPCR0550</b>	<b>ECPCR0512</b>	<b>ECPCR0510</b>
Adhesive	Adhesive	Adhesive
PCR & sample storage	Microplate sealing containing solvents incl. DMSO	Aqueous sample storage
Irregular tearing when pierced prevents formation of vacuum	High solvent resistance	Medium strength transparent seal
-40°C	-20°C	-20°C
120°C	80°C	80°C
No	No	No
Yes	No	No
Yes	Yes	Yes
Yes	No	Yes
Adhesive = 118 (plus 2 x 8 mm tabs)	Adhesive = 122	Total = 131 (no tear strips)

Primo® DMSO resistant seal	Primo® Pierceable seal heat sealing	Primo® Foil-Seal peelable heat sealing	Primo® Thermal heat sealing
<b>ECPCR0585</b>	-	-	-
<b>ECPCR0587#</b>	<b>ECPCR0531</b>	<b>ECPCR0536</b>	<b>ECPCR0591</b>
Heat	Heat	Heat	Heat
Low temperature /room temperature compound storage with DMSO <sup>^</sup> & other organic solvents.	PCR, compound storage, sample shipping	Low temperature compound storage, short-term room temperature compound storage, PCR.	Low temperature transportation & storage. PCR, esp. water bath cyclers. Storage of organic solvents, acids & alkalines.
Can be peeled directly from -80°C freezer. High resistance to solvents even at elevated temperatures.	Easily pierceable. Resistant to DMSO. Re-sealable with another Pierce Seal. Color print identifies non-sealing surface.	Re-sealable with another Foil Seal. Colour print identifies non-sealing surface.	Very strong seal with PP. Resistant to DMSO and other solvents
80°C	-20°C	-20°C	-80°C
80°C	120°C	110°C	110°C
No	No*	No*	No
No	Yes	Yes	No
Yes	No	Yes	Yes
No	Yes	Yes	Yes
Laminate	Foil	Foil	Laminate
PP	PP, PS	PP, PS	PP PS
500	610	610	500
500	500	500	300

1 Compatible with Thermo Fisher ALPSS 300™ / ALPSS3000™ / KBiosystems Chameleon™ / KBioscience FlexiSeal & Remp/Tecan Plate Sealer

2 Compatible with Agilent (Velocity 11 )PlateLoc®

PP: Polypropylene / PS: Polystyrene / COC: Cyclic Olefin Copolymer / PE: Polythene

NB: Rolls are also available on 150mm core for Remp/Tecan sealers. Please enquire.

## Primo® mechanical pipettes

Primo® mechanical pipettes: high quality devices that guarantee maximum precision and reproducibility of measurement.

- CE IVD marked
- Fully autoclavable
- UV resistant
- Ultra low pipetting forces
- Easy recalibration system
- 3 years warranty



Cat.	Description	Accuracy	Precision
<b>Single channel</b>			
ECP10010	0.5 - 10 µl	± 4.0 - ± 0.5	± 2.8 - ± 0.4
ECP10020	2 - 20 µl	± 3.0 - ± 0.8	± 1.5 - ± 0.3
ECP10100	10 - 100 µl	± 1.6 - ± 0.8	± 0.8 - ± 0.2
ECP10200	20 - 200 µl	± 1.2 - ± 0.6	± 0.6 - ± 0.2
ECP11000	100 - 1000 µl	± 1.6 - ± 0.6	± 0.4 - ± 0.15
<b>8 channels</b>			
ECP80010	0.5 - 10 µl	± 10.0 - ± 2.0	± 8.0 - ± 1.2
ECP80050	5 - 50 µl	± 4.0 - ± 1.6	± 2.5 - ± 0.6
ECP80200	20 - 200 µl	± 3.0 - ± 1.0	± 1.5 - ± 0.6
ECP80300	50 - 300 µl	± 1.6 - ± 1.0	± 1.5 - ± 0.6
<b>12 channels</b>			
ECP12010	0.5 - 10 µl ±	10.0 - ± 2.0	± 8.0 - ± 1.2
ECP12050	5 - 50 µl	± 4.0 - ± 1.6	± 2.5 - ± 0.6
ECP12200	20 - 200 µl	± 3.0 - ± 1.0	± 1.5 - ± 0.6
ECP12300	50 - 300 µl	± 1.6 - ± 1.0	± 1.5 - ± 0.6



## Primo® filter tips

- With filter: chemical additives-free
- Crystal clear clarity
- Accurate graduation marks
- **Low retention properties**
- Certified DNase, RNase, Nucleic Acid & Pyrogen Free
- Sterile packaging
- Certificate of Compliance available on request



Cat.	Description	Q.ty
ECTD00010	Primo® filter tips 0,5-10ul, Sterile	10 x 96
ECTD00020	Primo® filter tips 2-20ul, Sterile	10 x 96
ECTD00100	Primo® filter tips 2-100ul, Sterile	10 x 96
ECTD00200	Primo® filter tips 2-200ul, Sterile	10 x 96
ECTD01000	Primo® filter tips 10-1000ul, Sterile	8 x 96

## DNA Polymerases for PCR and Real Time PCR

EuroClone recombinant DNA Polymerases are produced and purified from E.coli. Severe and rigorous production procedures ensure the highest quality and the best batch-to-batch consistency. Our Polymerases are always supplied with the specific reaction Buffer. A separate MgCl<sub>2</sub> solution is provided with EuroTaq and @Taq. EuroClone master mixes are ready-to-use solutions optimized for PCR or Real Time PCR. The master mixes include Hot Start @Taq DNA Polymerase and dNTPs in an optimized buffer.

### Choose the right enzyme for PCR and real Time PCR.

Use the table below to easy find the better enzyme for most PCR applications, including special PCR: High Fidelity PCR, "Fast"-PCR or "Direct-Blood" PCR.

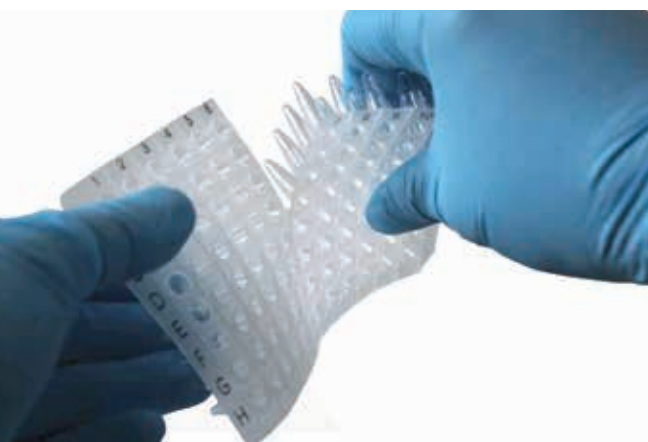
	EuroTaq	@Taq	Red@Taq	SMART DNA Polymerase
<b>Properties</b>				
5'→3' activity	+	+	+	+
3'→5' exo activity	-	-	-	+
5'→3' exo activity	+	+	+	-
Amplicon Size	<3Kb	<3Kb	<3Kb	>7Kb
Resulting Ends	A-tail	A-tail	A-tail	blunt
Units per reaction (50 µl)	1.25-2.5	1.25-2.5	1.25-2.5	0.5-1
<b>Application</b>				
Hot-Start PCR	-	+	+	-
Fast PCR	-	-	-	+
Direct-blood PCR	-	-	-	+
LD PCR	-	-	-	+
GC-rich templates	-	+	+	+
AT-rich templates	+	+	+	+
High Fidelity PCR	-	-	-	+
High Yield	-	+/-	+/-	+
<b>Presentation</b>				
Enzyme in Glycerol Buffer	+	+	+	+
2X Master Mix	-	+	-	-
5X Ready-to-load Master Mix	-	+	-	-
2X Master Mix with SYBR®green	-	+	-	-
2X Master Mix for TaqMan® probes	-	+	-	-

## DNA Polymerases and Master Mixes for PCR

Cat.	Description	Size
EME010250	EuroTaq	1 x 250 units
EME010001	EuroTaq	1 x 1000 units
EME013500	@Taq	500 units
EME014500	Red@Taq	500 units
EME012500	SMART DNA Polymerase	500 units
EMX013200	@Taq Master Mix	200 rxns
EMX016100	Redy@Taq Master Mix	100 rxns

## Master Mixes for Real Time PCR

Cat.	Description	Size
ERD001100BIM	FluoCycle II™ Master Mix for Probe	100 rxns
ERD001250BIM	FluoCycle II™ Master Mix for Probe	250 rxns
ERD002100BIM	FluoCycle II™ SYBR® Master Mix	100 rxns
ERD002250BIM	FluoCycle II™ SYBR® Master Mix	250 rxns



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### **EuroClone S.p.A.**

Via Figino, 20/22 • 20016 Pero (MI) Italy • ☎ +39 02 38195.1 • 📠 +39 02 38101465 • ✉ info@euroclone.it • www.euroclone.it

Quality Management Systems certified according to ISO 9001 and ISO 13485 international standards