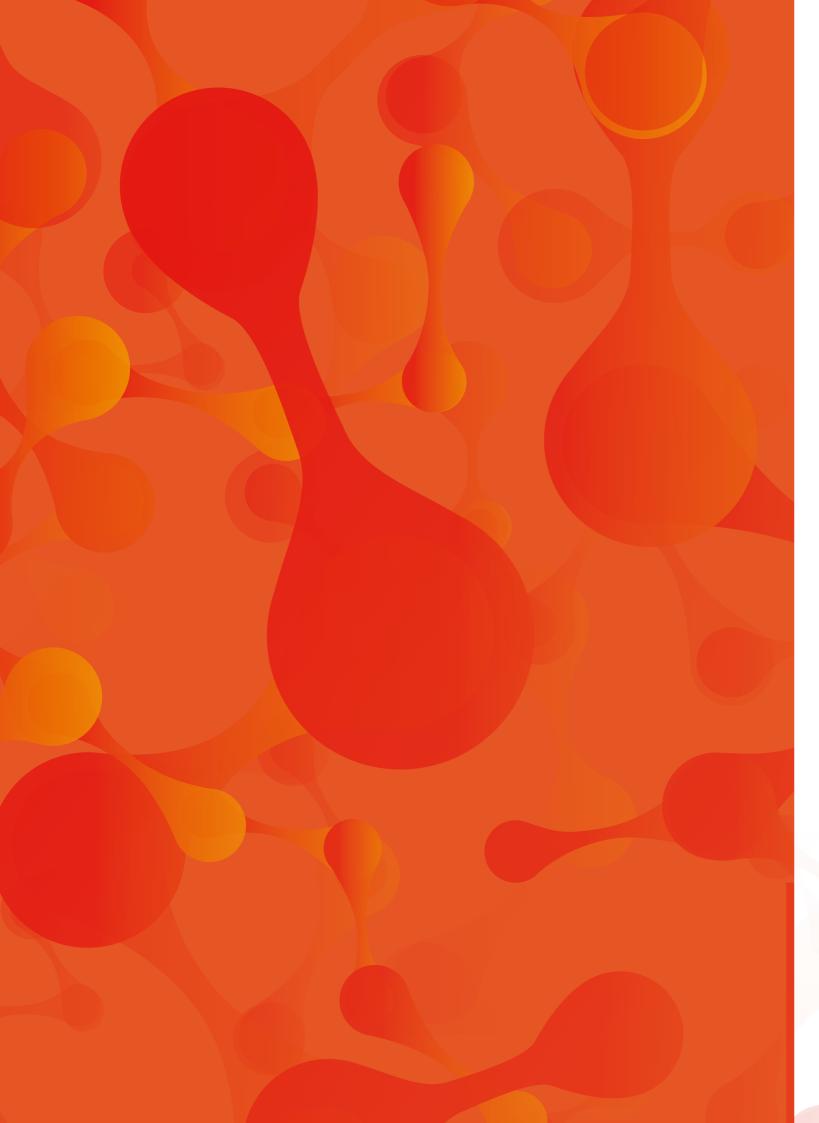
MOLECULAR BIOLOGY







MOLECULAR BIOLOGY

Index

Introduction

1. Nucleic Acids Isolation Systems

2. Polymerases and Amplification

PCR		 	 	 	
qPCR.		 	 	 	
RT-PCF	{	 	 	 	
REAGE	NTS				

3. Nucleic Acids Electrophoresis

Ag	garose	S											 	 	
Re	eadent	s fo	r nı	uclei	c ac	cids	ele	ectr	ao	hoi	res	is.	 	 	

4. Proteins Quantitation, Electrophoresis and Western Blotting

Protein Quantitation
Protein Molecular Weight Markers
Chemiluminescent Substrates for Western Blotting
Stripping

5. Plastic for Molecular Biology

FrameStar® Plates
Standard Plates
PCR Tubes & Strips
Adhesive Sealing Films & Foils
Heat Sealing Films & Foils

6. Primo[®] mechanical pipettes and Primo[®]

7. Services

8. Technical Appendix

6

4

14

 •••	•••	• •	 		•	• •	 •		• •	 •	• •	 •		• •		 •	• •			•••	•		• •	 •	• •		 •	•••	•	1	6
 •••		• •	 		•	• •	 •		• •	 •	• •	 •		• •			• •			•••	•		• •		• •		 •		•	1	7
 •••			 				 •		• •	 •		 •		• •		 •			 •	• •	•	 •			• •		 		•	1	8
 •••		• •	 • •			• •	 •		• •			 •		• •			• •			•••	•		• •		• •		 	•••	•	1	9

22

30

•	•	• •	 			•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	• •	 	 		•	•	•	•	•	•	•	•	 	 		 	 	•	•		2	2	1	
•	•	•••	 				•	•	•	•				•	•	•	•							•	•	•	•				 	 			•	•	•	•	•	•		 	 	• •	 	 	•		•	2)	7	

32	 	 •••	• •	 • • •	 • •		• •		 		• •		• •	• •	 	 	• •		•
33	 	 • • •		 • • •	 •••	•••	•••	•••	 		••	•••	••	•••	 • • •	 	•••		
34	 • • • •	 		 • • •	 •••	•••	••	•••	 	• • •	•••	•••	•••	••	 	 ••	••		•
37	 	 		 • • •	 	•••	•••	•••	 		•••	•••	•••	•••	 	 	•••		•

38

 	 	 •••	 	••	 • •	• •	 		• •	• •	 •••	• •	 • •	•	•••	 	• •	•	• •	•	• •	•••	• •	 		4	0)
 	 	 •••	 	•••	 • •	• •	 				 	• •	 • •	•		 			••	•		•••	• •	 	 	.2	14	ŀ
 	 	 	 		 •••		 	•			 •••	• •	 • •			 			••	•		•••	• •	 		4	16	;
 	 	 	 		 		 				 		 • •			 			• •	•			• •	 	 		51	

ti	ps

56

62

INTRODUCTION

Since our establishment in the early 80's, Euroclone has given scientists a valuable opportunity to gain access to a world of products and equipment in Biotechnology.

During more than three decades of experience, our Company has evolved into a modern supplier of up-to-date and own-branded products, pursuing affordability and quality: all manufacturing procedures are strictly regulated with raw materials, bulks and final products undergoing stringent controls.

Euroclone provides innovative products, services and solutions for Molecular and Cell Biology, Genomics, Proteomics, Cytogenetics and Agro-Food Diagnostics.

From the choice of high-quality products to the after sales service, Euroclone is your reliable and solid partner for your scientific challenges.

In 2019 Euroclone is acquired by AddLife AB becoming part of an important international group. This step ensure continuity and further expansion of the company in the Italian market and in the export of the proprietary private lines, key and distinctive element of the identity of Euroclone.

NUCLEIC ACIDS ISOLATION SYSTEMS Nucleic acids isolation is a crucial step in many experimental workflows. Our range of fully validated kits have been developed for use with diverse starting materials to ensure fast isolation of highly purified nucleic acids.

- $\checkmark\,$ Fast and easy protocols
- \checkmark High quality and yields
- ✓ Cost effective

Nucleic Acids Isolation Systems

EuroGold TriFast[™] II- Nucleic Acids Isolation Reagent

EuroGold TriFast[™] is a ready-to-use reagent for the extraction of RNA, DNA and proteins from a variety of starting materials. Used in conjunction with chloroform extraction, it allows the isolation of RNA, DNA and proteins from the same sample.

This method for purifying nucleic acids does not exclude very small or very large molecules and it is therefore suitable for studies of miRNAs or mRNAs. Additionally, this protocol produces high quality RNA suitable for applications such as cDNA synthesis and Real Time-PCR, Northern Blot or dot blot hybridization. DNA is suitable for use in enzymatic reactions such as restriction digestions or ligations, DNA sequencing, PCR, Southern Blot. The purified proteins can be used for Western Blot analysis.

Features

- Purification: RNA, DNA and proteins
- Format: Reagent + phenol/chloroform
- Starting materials: Wide ranging
- Staring Quantity: Scalable
- Expected Yield: Up to 7 μg/mg tissue
- Protocol time: 1+ hours

Protocol at-a-glance

- ✓ Homogenization and lysis of the sample with TriFast[™]
- Centrifugation
- Addiction of chloroform and RNA extraction from the upper phase
- RNA precipitation and resuspension
- DNA extraction from the interphase/organic phase
- DNA precipitation and resuspension
- Protein extraction from the ethanol/phenol phase
- Protein purification

Expected Yields RNA and DNA from tissue

NA UNU DNA NOM USSUE		
Tissue	RNA	DNA
Liver	6-10 μg/mg	3-4 µg/mg
Kidney	3-4 µg/mg	3-4 µg/mg
Skeletal muscle	1-1,5 μg/mg	2-3 μg/mg
Brain	1-1,5 μg/mg	2-3 μg/mg
Placenta	1-4 μg/mg	2-3 μg/mg

RNA and DNA from cell culture

Cell Type	RNA	DNA
Epithelial cells	8-15 μg/10 ⁶ cells	5-7 μg/10 ⁶ cells
Fibroblast	5-7 μg/10 ⁶ cells	5-7 μg/10 ⁶ cells

Ordering information

Cat. Num.	Description	Size
EMR517100	EuroGold TriFast [™] - Nucleic Acids Isolation Reagent	100 ml
EMR517200	EuroGold TriFast [™] - Nucleic Acids Isolation Reagent	200 ml

Storage and Stability 1 year at 4°C

Shipping Room Temperature

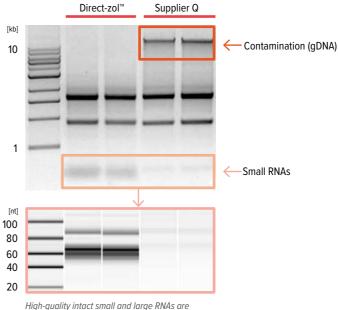
DirectFAST

For a quick purification of high-quality (DNA-free) total RNA directly from TriFast[™] reagent, bypassing phase separation and precipitation procedures, EuroGold TriFast[™] is available with Direct-zol RNA MiniPrep spin columns from our partner Zymo Research.

Obtained RNA is ultra-pure and NGS-ready; no phenol carryover or DNA contamination (DNase I included).

Features

- Purification: total RNA, including small RNAs (>17 nt)
- Format: Trireagent + spin-column
- Starting materials: a variety of sample sources
- Starting Quantity: DirectFAST up to 5x106 cells or 25 mg tissue; DirectFAST Plus up to 1x10⁷ cells or 50 mg tissue
- Binding capacity: DirectFAST up to 50 μ g; DirectFAST Plus up to
- 100 µg • Elution volume: DirectFAST 25 μl; DirectFAST Plus 50 μl
- · Protocol time: 7 minutes (sample preparation not included)



efficiently recovered using EuroGold TriFast™ and Direct-zol™ RNA Kit compared to using a Supplier Q Kit. RNA is DNA-free and ready for all downstream applications including NGS.

Ordering information

Cat. Num.	Description	Size
EMR527100	DirectFAST (Direct-zol™ RNA MiniPrep + TriFast™)	100 prep
EMR527200	DirectFAST (Direct-zol™ RNA MiniPrep + TriFast™)	200 prep
EMR528100	DirectFAST Plus (Direct-zol [™] RNA MiniPrep Plus + TriFast [™])	100 prep
EMR528200	DirectFAST Plus (Direct-zol [™] RNA MiniPrep Plus + TriFast [™])	200 prep

Storage and Stability 1 year at Room Temperature (except TriFast™ at 4°C) **Shipping** Room Temperature

Nucleic Acids Isolation Systems

Protocol at-a-glance

- ✓ Apply a prepared sample in EuroGold TriFast[™] directly to the Direct-zol-Spin Column
- Bind
- 🗸 Wash
- ✓ Elute the RNA

TriFast™ In RNA Out

Bind RNA directly to a Direct zol[™] RNA Spin Column.

Nucleic Acids Isolation Systems

Euroclone spinNAker Universal Genomic DNA mini kit

Euroclone spinNAker Universal Genomic DNA mini kit is designed for a rapid and efficient purification of high quality genomic, mitochondrial, bacterial, parasite or viral DNA from solid tissues (fresh, frozen, formalin-preserved or paraffin-embedded), physiological fluids (urine, cerebrospinal fluid, peritoneal fluid, pleural fluid, sputum), fresh and frozen blood (human and mammalian), human and animal mucosa membrane swabs (including buccal, nasal, pharyngeal and vaginal swabs), semen, hair, rodent tails, insects, bacteria, yeast and cell cultures. DNA purification procedure utilizes spin minicolumns with membranes which efficiently and selectively bind nucleic acids.

Purified DNA can be used directly in all downstream applications such as PCR, quantitive real-time PCR, pharmacogenetic research, Southern blotting, single-nucleotide polymorphism (SNP), short tandem repeat (STR) genotyping, DNA sequencing, enzymatic restriction, ligation and so forth.

Features

- Purification: Genomic DNA
- Format: Spin columns
- Starting materials: Wide ranging
- Starting quantity: Up to 10⁷ cells, 30 mg tissue, 1 ml blood, 5 ml
- physiological fluids.
- Binding capacity: Up to 50 μg
- \bullet Elution volume: 50-200 μl
- Protocol time: 12 minutes (sample preparation not included)

A549 cell line Mouse brain spinNAker Competitor B spinNAker Competitor B

Highest efficiency: spinNAker Universal Genomic DNA mini kit yields higly concentrated DNA from a variety of sources.

Ordering information

Cat. Num.	Description	Size
EMR603050	Euroclone spinNAker Universal Genomic DNA mini kit	50 preps
EMR603250	Euroclone spinNAker Universal Genomic DNA mini kit	250 preps

Storage and Stability 36 months at Room Temperature, 12 months from opening (reconstituted RNase A and Proteinase K at -20°C) Shipping Room Temperature

Protocol at-a-glance

- ✓ Biological material lysis by Proteinase K
- Optional RNase A treatment
- Centrifugation
- ✓ Loading onto purification minicolumn
- ✓ Centrifugation
- Two-step washing stage
- ✓ Elution of purified genomic DNA

Euroclone spinNAker Plasmid DNA miniprep kit

Euroclone spinNAker Plasmid DNA miniprep kit is designed for a rapid and efficient purification of high-quality plasmid DNA from recombinant Escherichia coli strains. The isolation protocol and buffer formulations were optimized for high isolation efficiency and DNA purity. DNA purification procedure utilizes spin minicolumns with membranes which efficiently and selectively bind nucleic acids.

Features

- Purification: Plasmid DNA
- Format: Spin columns
- Starting materials: Bacteria broth culture, frozen cell pellet
- Starting quantity: 5-10 ml
- Binding capacity: Up to 60 μg DNA
- Elution volume: 50-100 μl
- Protocol time: About 25 min



1 2

Highest yield: Plasmid 3000 bp and insert 300 bp. L: ladder; 1: Competitor 2: SpinNAker Plasmid DNA Miniprep kit.

Ordering information

Cat. Num.	Description	Size
EMR600050	Euroclone spinNAker Plasmid DNA miniprep kit	50 preps
EMR600250	Euroclone spinNAker Plasmid DNA miniprep kit	250 preps

Storage and Stability 36 months at Room Temperature, 12 months from opening (reconstituted RNase A at +4°C) Shipping Room Temperature



Nucleic Acids Isolation Systems



Protocol at-a-glance

- ✓ Bacterial cells lysis
- Centrifugation
- \checkmark Loading onto purification minicolumn
- ✓ Centrifugation
- Two-step washing stage
- Elution of purified plasmid DNA

Nucleic Acids Isolation Systems

Euroclone spinNAker GEL&PCR DNA purification kit

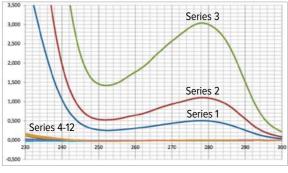
Euroclone spinNAker GEL&PCR DNA purification kit is designed for a rapid and efficient purification of DNA fragments after enzymatic reactions as well as directly from agarose gels. It efficiently removes nucleases, enzyme inhibitors, detergents, restriction enzymes, polymerases, divalent ions, agarose, ethidium bromide and other contaminants. DNA purification procedure utilizes spin minicolumns with membranes which efficiently and selectively bind nucleic acids. Purified DNA can be used in every common downstream application.

Features

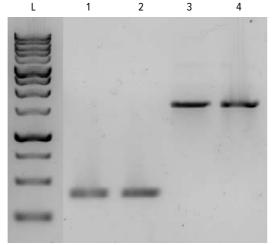
- Purification: DNA from agarose gel and from reaction mixes
- Format: Spin columns
- Starting materials: Agarose slice or reaction mix
- DNA fragment length: Optimal 100 bp 10 kb; also possible in the ranges 50-100 bp and 10-20 kb
- Starting quantity: Up to 300 mg agarose containing DNA or up to 200 μ l of reaction mix
- Binding capacity: Up to 40 μg DNA
- Elution volume: 15-30 μl for DNA Clean-up and 20-200 μl for DNA gel-out
- Protocol time: 5-10 min for DNA Clean-up and 16-20 min for DNA gel-out

Protocol at-a-glance

- Addition of CB Buffer to reaction mix OR incubation in GB Buffer of agarose gel slice and isopropanol addition
- Joading onto purification minicolumn
- Loduing onto purification minic
 Contribution
- Centrifugation
- Two-step washing stage
 Elution of purified DNA



Ultre-pure DNA: Disappearance of picks at A280 shows that BSA at different concentrations (Series 1-3) is efficently removed from samples after cleaning up with spinNAker GEL&PCR DNA purification kit (Series 4-12).



High-quality: DNA fragments (300 and 1700 bp) recovered from an agarose gel. L: ladder; 1, 3: SpinNAker GEL&PCR DNA purification kit; 2, 4: Competitor C.

Ordering information

Cat. Num.	Description	Size
EMR602050	Euroclone spinNAker GEL&PCR DNA purification kit	50 preps
EMR602250	Euroclone spinNAker GEL&PCR DNA purification kit	250 preps

Storage and Stability 36 months at Room Temperature, 12 months from opening Shipping Room Temperature

EuroSAP - PCR Enzymatic Clean-up kit

EuroSAP is a quick and efficient PCR clean-up kit designed to remove primers and nucleotides from PCR products. It is based on the activity of two hydrolytic enzymes, recombinant Shrimp Alkaline Phosphatase (SAP) and Exonuclease I (Exo I); the combined action of these enzymes ensures complete dephosphorylation of dNTPs and degradation of residual primers. The reagents are active in commonly used PCR buffers and eliminates the need for buffer exchange. Purified DNA is ready for all downstream applications, such as sequencing, genotyping, cloning or SNP analysis.

This enzymatic protocol yields 100% product recovery for even very short PCR products and it is compatible with automatic processes.

Features

- Purification: DNA from PCR reaction mixes
- Format: Two reagents kit
- Starting materials: PCR reaction mixes
- Starting quantity: Scalable
- Protocol time: 15 min



Total recovery of intact PCR product: Agarose gel showing three different PCR products before and after EuroSAP treatment. No loss of PCR product was detected even with small fragments.

Ordering information

Cat. Num.	Description
EMR520500	EuroSAP PCR Enzymatic Clean-Up Kit
EMR520002	EuroSAP PCR Enzymatic Clean-Up Kit

Storage and Stability 12 months at -20°C Shipping Dry ice

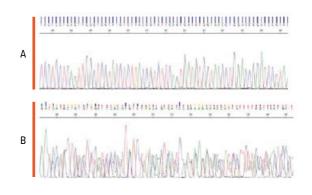
RELATED PRODUCTS

PCR	pag. 16
qPCR	
RT-PCR	
Agaroses	pag. 24
DNA ladders	pag. 27

Nucleic Acids Isolation Systems

Protocol at-a-glance

- Addition of SAP and Exo I to PCR mix
- Incubation at 37°C
- ✓ Heat inactivation at 80°C



Importance of PCR clean-up before sequencing: Two samples of PCR products were either treated (panel A) or untreated (panel B) with EuroSAP kit. The enzymatic clean-up results in significant improvement of overall sequence length and quality.

Size
500 rxn (500 μl SAP, 500 μl Exo l)
2000 rxn (4 x 500 μl SAP 2 U/μl, 4 x 500 μl Exo I 10 U/μl)

5			
7			
3			
4	-	2	6
7,	2	28	3



NUCLEIC ACIDS ISOLATION SYSTEMS

POLYMERASES AND AMPLIFICATION

2

PCR, RT-PCR and qPCR are routine applications in every molecular biology lab. Our range of polymerases and PCR reagents undergoes severe and rigorous production procedures, ensuring the highest quality and the best batch-to-batch consistency.

PCR

Wonder Taq and Wonder Taq Hot start

Wonder Taq is a recombinant thermostable DNA polymerase engineered to give robust amplification and high yield with different PCR templates. Wonder Taq DNA Polymerase is supplied with an optimized reaction buffer already containing dNTPs, MgCl₂ and enhancers, avoiding the need of optimizing the reaction conditions.

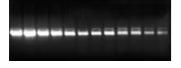
In the Hot Start version, the enzyme is complexed with a monoclonal antibody blocking the polymerase activity at room temperature and preventing non-specific amplification. Activation occurs at 70°C, during the first step of denaturation.

Features

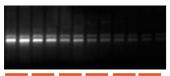
- Amplicon size: Up to 5 kb
- Resulting ends: A-tail
- Units per reaction (50 μl): 1.25 5
- Reaction Buffer: 5X, containing dNTPs, MgCl, and enhancers

Applications

- Standard PCR
- ✓ High-yield PCR
 ✓ Fast PCR
- Colony PCR
- ✓ TA cloning
- Genotyping
- ✓ GC-rich amplification

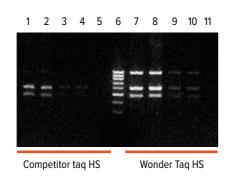


Wonder Taq



Competitor GT

Increased yield with GC-rich targets (61% GC). Amplification of a 450 bp fragment from serial dilutions of human genomic DNA (from 1 μ g to 12,5 ng) with Wonder Taq (upper panel) or a competitor enzyme (lower panel).



Higher yield in multiplex amplification. Amplification of 477 bp, 489 bp and 961 bp fragments from 2 different samples of human genomic DNA were carried out using either Wonder Taq HS or a competitor HS enzyme. Lanes 1;7 and 2;8 : undiluted sample A and B respectively. Lanes 3;9 and 4;10 : 1/10 dilution of sample A and B respectively.

Ordering information

Cat. Num.	Description	Size	
EME020001	Wonder Taq	1000 units	
EME023500	Wonder Taq Hot Start	500 units	

Storage and Stability 2 years at -20°C Shipping Blue Ice MOLECULAR BIOLOGY

qPCR

FluoCycle II[™] Master Mix for Real Time PCR

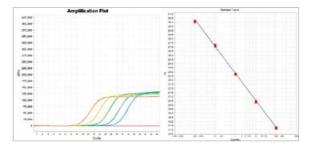
Euroclone qPCR master mixes are ready-to-use 2X solutions optimized for Real Time PCR. The master mixes include Wonder Taq Hot Start DNA polymerase and dNTPs in an optimized buffer.

The SYBR^{*} Master Mix contains the green intercalating dye allowing DNA detection and analysis without using sequence-specific probes. Only template and primers need to be added.

The Master Mix for Probe has been formulated for the detection of amplicon product with sequence specific fluorogenic probes. Primers, probe and template must be added before use.

Features

- Wide linear range
- Detection of low copy number targets
- · Highly reproducibility and minimum hands-on time
- High specificity



Linear target amplification with a dynamic range across 5 orders of

magnitude of input. Amplification plot and standard curve from real-time PCR for a dilution series of human CLUSTERIN cDNA amplified in 3 replicate reactions using the Step One Plus Real-Time PCR System, FluoCycle II Master Mix for probe and specific clusterin probe.

Ordering information

Cat. Num.	Description
ERD001250BIM	FluoCycle II [™] Master Mix f
ERD002250BIM	FluoCycle II [™] SYBR [®] Maste

Storage and Stability 1 year at -20°C

Shipping Blue Ice

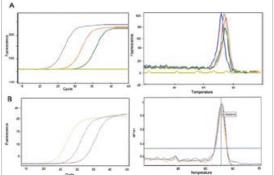
Notice to purchaser: limited license

For Research Use Only (RUO). Diagnostic uses under Roche patents require a separate license from Roche. No right under any patent claim (ex: Patents Nos. 5,210,015 and 5,487,972), no right to perform any patented method, and no right to perform commercial services of any kind, including without limitation reporting the results of purchaser's activities for a fee or other commercial consideration, is conveyed expressly, by implication, or by estoppel. Some applications this product is used in may require a license which is not provided by the purchase of this product. Users should obtain the license if required. Further information on purchasing licenses: Director of Licensing, Applied Biosystems, 850 Lincoln CentreDrive, Foster City, California 94404 USA.

16

PCR

qPCR



Specific and reproducible qPCR with 2 different instruments using Euroclone FluoCycle II[™] Master Mix. Amplification of the human β-globin gene was performed on serial dilutions of genomic DNA. Instruments used: A: Cepheid[®] SmartCycler[®]. B: Corbett RotorGene[®] 3000.

for Probe ter Mix Size 500 rxn (reaction volume 25 μl) 500 rxn (reaction volume 25 μl) 2

RT-PCR

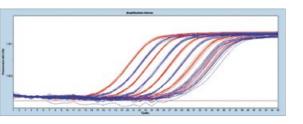
Wonder RT - cDNA Synthesis kit

Wonder RT kit is a rapid and very sensitive method for first strand cDNA synthesis. It is a two-components system: 1) an extremely efficient reverse transcriptase allows highly robust first strand synthesis and higher cDNA yields from a wide range of input RNA concentrations; 2) a 5x Reaction Buffer Mix provides highly optimized components for efficient reverse transcription.

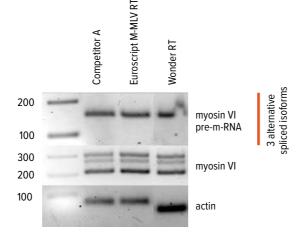
Features

Applications

- Easy reaction set up: primers and dNTPs are included in the 5x Reaction Buffer Mix and RNase inhibitor is included in the Reverse Transcriptase Mix
- Unbiased: primers are composed of an optimized mixture of random hexamers and anchored oligo dT primers for complete 5' to 3' RNA sequence representation
- Fast: high-yield reverse transcription in as little as 25 minutes
- Robust: reliable reverse transcription even with complex templates or in the presence of inhibitors thanks to specific enhancers included in the 5x Reaction Buffer Mix
- · Sensitive: down to 1 pg of input RNA and accurate detection of very low-copy targets



Speed and sensitivity. Wonder RT kit was used in first-strand cDNA synthesis reactions of total RNA, following the recommended reaction conditions. A 10fold serial dilution of the cDNA was then used in qPCR reactions, using SYBR. The results illustrate that Wonder RT (red) is both faster and more sensitive than competitor Q (blue), as judged by the earlier Ct values and improved uniformity between standard curves of decreasing amounts of input RNA.



RT-PCR

The yield and the intensity are similar between Wonder RT and our old Euroscript M-MLV-RT, in both case yield and intensity are superior than Competitor A. 2µI were used as a template in each PCR.

Ordering information

Cat. Num.	Description	Size*
EME037050	Wonder RT - cDNA Synthesis kit (50 rxn)	50 rxn
EME037250	Wonder RT - cDNA Synthesis kit (250 rxn)	5 x 50 rxn

*reaction volume 20 µl

Storage and Stability 2 years at -20°C

Shipping Dry Ice

- Gene expression analysis Tissue biopsy analysis
- miRNA profiling/quantification
- RNA target detection
- Pathogen detection



REAGENTS

RNase inhibitor

RNase Inhibitor completely inhibits the activity of RNases A, B and C by non-covalent binding. It binds the RNases in a 1:1 ratio. It does not inhibit the RNases I, T1, T2, H, U1, U2 and CL3.

Ordering information

Cat. Num.	Description		
EMR436050	RNase Inhibitor		
EMR436250	RNase Inhibitor		

Storage and Stability 1 year at -20°C

Shipping Blue Ice

Oligo (dT)₂₀ Primer and Random Hexamers

Oligo (dT) Primer hybridizes to the poly(A) tail of mRNA and is used as primer for first stand cDNA synthesis with reverse transcriptases. Random Hexamers are a mixture of oligonucleotides representing all possible sequences for a hexamer.

Random Hexamers are used in DNA labelling by PCR (DOP-PCR) or cDNA synthesis by RT-PCR.

Ordering information

Cat. Num.	Description	
EMR433200	Oligo (dT) Primer 100 μM	
EMR433001	Oligo (dT) Primer 100 μM	
EMR428200	Random Hexamers 100 µ	
EMR428001	Random Hexamers 100 µ	

Storage and Stability 1 year at -20°C

Shipping Blue Ice

REAGENTS

Size 2000 units (50 µl) 10000 units (250 µl)

	Size
Λ	200 μΙ
Λ	1 ml
μM	200 μΙ
μM	1 ml

REAGENTS

dNTPs

Euroclone's enzymatic dNTP manufacturing process and refined purification protocols ensure the highest quality of deoxynucleotides. All our dNTPs are ultrapure (> 99%) and quality checked by a set of PCR, RT-PCR and Klenow reactions.

Euroclone dNTPs are available as single bases, set or mix. Individual nucleotides are supplied as single ready-to-use 100 mM solutions or as a 4 x 250 µl set. The dNTP mix consist of a mixture of dATP, dCTP, dGTP and dTTP (final concentration of each nucleotide 10 or 25 mM).

Euroclone dNTPs have the highest purity, are free of strong PCR inhibiting contaminants as tetraphosphates and pyrophosphates. All lots are checked on HPLC for their purity using a sensitive acetonitrile gradient in 20 mM KH₂PO₄, 2 mM TBA-SO₄ on a Eurospher-100 C18 RP-column (4 x 250 mm). Detection occurs at 254 nm.

Ordering information

Cat. Num.	Description	Size
EMR272025	dATP 100 mM Solution	250 μl (25 μmol)
EMR273025	dCTP 100 mM Solution	250 μl (25 μmol)
EMR274025	dGTP 100 mM Solution	250 μl (25 μmol)
EMR275025	dTTP 100 mM Solution	250 μl (25 μmol)
EMR276425	dNTP set	4 x 250 μl (4x25 μmol)
EMR276001	dNTP set	4 x 1 ml (4 x 100 μmol)
EMR415001	dNTP Mix 25 mM solution	1 ml (25 µmol)
EMR416200	dNTP Mix 10 mM solution	200 μl (2 μmol)
EMR416001	dNTP Mix 10 mM solution	1 ml (10 μmol)

Storage and Stability 1 year at -20°C

Shipping Blue Ice

dNTPs Mix with dUTP

dNTP mix including dUTP, is a mixture of 10 mM ultrapure dATP, dCTP, dGTP and 20 mM dUTP.

Ordering information

Cat. Num.	Description	Size
EMR414025	dNTPs/dUTPs Set	200 μl

Storage and Stability 1 year at -20°C Shipping Blue Ice

NTPs

Nucleotide Triphosphates (NTPs) are available as 100 mM ready-to-use solution.

Our NTP solutions are optimized for in vitro transcription with the common polymerases and the major commercially available transcription kits.

Ordering information

Cat. Num.	Description	Size	
EMR423001	ATP 100 mM solution	1 ml (100 μl)	
EMR424001	CTP 100 mM solution	1 ml (100 µl)	
EMR425001	GTP 100 mM solution	1 ml (100 µl)	
EMR426001	UTP 100 mM solution	1 ml (100 µl)	

Storage and Stability 1 year at -20°C Shipping Blue Ice

RELATED PRODUCTS

Nucleic Acids Isolation Systems	pag. 8 - 13
Agaroses	pag. 24 - 26
DNA ladders	pag. 27, 28
Plastic for Molecular Biology	pag. 38 - 54

- 54

REAGENTS

	:	2
		POLYME
		POLYMERASES AND AMPLIFICATION
		CATION
21)	

NUCLEIC ACIDS ELECTROPHORESIS

3

Separation of nucleic acids basing on their size on agarose gel is a very common analytical technique applied in several molecular biology process flows such as PCR amplification, sequencing, cloning, or blotting. Our selection of agaroses, stain and DNA ladders will help to achieve optimal results in every experiment.

MOLECULAR BIOLOGY

Agaroses

Euroclone offers a complete selection of high-quality agaroses for standard and specific electrophoresis applications.

	Agarose LE	GellyPhor [®] LE	GellyPhor [®] LM	GellyPhor [®] ULTRA	GellyPhor [®] HR	GellyPhor [®] PFGE
DNA separation 1-50 kb	-	-	-	-	-	\checkmark
DNA/RNA separation ≤1 kb	\checkmark	\checkmark	-	\checkmark	\checkmark	-
DNA/RNA separation ≥1 kb	\checkmark	\checkmark	\checkmark	-	-	\checkmark
DNA separation 20- 800 bp	-	-	-	\checkmark	-	-
Blotting	\checkmark	\checkmark	-	-	\checkmark	\checkmark
DNA finger printing	\checkmark	\checkmark	-	-	-	-
Nucleic Acid Recovery	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

Agarose LE Agarose for Nucleic Acids routine screening electrophoresis

Agarose LE is a multi-purpose agarose with low EEO and standard melting point, ideal for routine DNA and RNA gel electrophoresis and blotting. Its optimized gel strength makes gel processing and handling easy. It yields sharp DNA bands with high clarity and low background.

Technical Specification

- Gelling Temperature (1,5%): 36°C ± 1,5°C
- Moisture: ≤ 10%
- Gel strength (1%): ≥ 1200 g/cm²
- EEO: ≤ 0,13 (-m,)
- Sulphate: ≤ 0,20%
- RNAse/DNase Activity: None detected

Ordering information

Cat.	Description	Size
EMR920500	Agarose LE Agarose for Nucleic Acids routine screening electrophoresis	500 g

Storage and Stability 5 years at Room Temperature

Shipping Room Temperature

GellyPhor[®] LE

GellyPhor® LE is ideal for general nucleic acids preparative and analytical gel electrophoresis as well as for blotting.

This gel sharply resolves the different DNA fragments to be analyzed and provides consistent resolution from batch-to-batch. It forms high strength gels with low background upon staining with ethidium bromide or alternative safer reagents. Due to the low electroendosmosis value (EEO) of GellyPhor® LE, the DNA has a high electrophoretic mobility allowing shorter running time.

Technical Specification

- Gelling Temperature (dynamic measurement in 1.5% solution):
- 34 38°C
- Gel strength (1%): ≥ 1200 g/cm²
- EEO: ≤ 0.12 (-m.)
- Sulphate: ≤ 0.14%
- Moisture: ≤ 8.5%
- Residue on ignition: ≤ 0.60% RNase/DNase Activity: None detected

Ordering information

Cat. Num.	Description	Size
EMR010100	GellyPhor [®] LE	100 g
EMR010500	GellyPhor [®] LE	500 g
EMR010001	GellyPhor [®] LE	1 kg

Storage and Stability 5 years at Room Temperature **Shipping** Room Temperature

GellyPhor[®] LM

GellyPhor* LM is a low melting temperature agarose. This molecular biology grade agarose produces gels with greater sieving properties and higher clarity than standard melting temperature agarose. The low melting temperature of GellyPhor* LM makes it ideal for preparative nucleic acids electrophoresis, while its low gelling temperature is perfect for cloning of tissue culture cells and viral plaque assays.

Technical Specification

- Gelling Temperature (dynamic measurement in 1.5% solution): 24 - 28°C
- Gel strength (1.5%): \geq 500 g/cm²
- EEO: ≤ 0.12 (-m,)
- Sulphate: $\leq 0.12\%$
- Moisture: ≤ 7%
- Melting Temperature (1.5%): ≤ 65.5°C
- RNase/DNase Activity: None detected

Ordering information

Cat. Num.	Description
EMR911100	GellyPhor® LM

Storage and Stability 5 years at Room Temperature

Shipping Room Temperature

GellyPhor[®] **HR**

GellyPhor* HR is a molecular biology grade standard melting temperature agarose, that yields strong gels for fine resolution of small nucleic acids fragments. Performance testing of GellyPhor® HR ensures fine resolution of DNA fragments up to 1000 bp, though this agarose is capable of finely resolving DNA fragments ranging from 10 bp up to 1200 bp. GellyPhor® HR is designed for analytical electrophoresis

Technical Specification

- Gelling Temperature (dynamic measurement in 3% solution):
- 35.5°Č • Gel strength: \geq 600 g/cm² (for a 1.5% gel), \geq 1500 g/cm² (for a 3%
- EEO: ≤ 0.12 (-m_)
- Sulphate: ≤ 0.11%
- Moisture: ≤ 7%
- Melting Temperature (3%): ≤ 80°C
- RNase/DNase Activity: None detected

Ordering information

Cat. Num.	Description
EMR912100	GellyPhor® HR
EWIR912100	GellyPhon HR

Storage and Stability 5 years at Room Temperature **Shipping Room Temperature**



Size 100 g

Ranges of separation*

- 1.8%: 400 1200 bp
- 3%: 150 800 bp
- 4.5%: 15 400 bp

(*) These ranges are approximate and have been calculated in TAE Buffer. To achieve the best resolution of GellyPhor® HR gels, they should be stored at 4°C/8°C for 30 minutes before use.

> Size 100 g



GellyPhor® ULTRA

GellyPhor® ULTRA is an intermediate melting temperature agarose that provides twice the resolution capabilities of the finest sieving agarose products. You can resolve DNA fragments, PCR and RT-PCR products differing in size by 2%, in the range of 200 bp to 800 bp, by horizontal gel electrophoresis (for example, a 200 bp DNA fragment can be separated from a 204 bp fragment). Using fast run protocols, DNA fragments differing in size by 1% can be resolved in as little as 1.5 hours in a 20 cm long horizontal or vertical gel format. GellyPhor® ULTRA agarose gels (2% to 4%) approximate the resolution of polyacrylamide gels (4% to 8%).

Technical Specification

- Gelling Temperature (dynamic measurement in 3% solution): ≤ 36°C
- Gel strength (3%): ≥ 400 g/cm²
- EEO: ≤ 0.02 0,05 (-m,)
- Moisture: ≤ 10%
- Melting Temperature (3%): ≤ 75°C
- RNase/DNase Activity: None detected

Ordering information

Cat. Num.	Description	Size	
EMR915100	GellyPhor® ULTRA	125 g	

Storage and Stability 5 years at Room Temperature

Shipping Room Temperature

GellyPhor® PFGE

GellyPhor® PFGE is a very high gel strength, low EEO, standard gelling temperature agarose. Due to its high gel strength, this agarose can be used for the preparation of low percentage gels for the analysis not only of high molecular weight nucleic acids (such as chromosomes), but also of large-sized particles such as viruses and ribosomes.

Technical Specification

- Gelling Temperature (dynamic measurement in 1.5% solution): \leq 36 \pm 1.5°C
- Gel strength : ≥ 1600 g/cm² (for a 1% gel), ≥ 3000 g/cm² (for a 1.5% gel)
- EEO: < 0.13 (-m_)
- Moisture: ≤ 7%
- Melting Temperature (1.5%): ≤ 1.5°C
- RNase/DNase Activity: None detected

Ordering information

Cat. Num.	Description	Size
EMR916100	GellyPhor® PFGE	100 g

Storage and Stability 5 years at Room Temperature

Shipping Room Temperature

Reagents for nucleic acids electrophoresis

Gel Staining

EuroSafe - Nucleic Acid Stain

EuroSafe Nucleic Acid Staining Solution (20,000x) is a safe nucleic acid stain, alternative to the traditional ethidium bromide (EtBr) staining for the detection of nucleic acid in agarose gels. It emits green fluorescence when bound to DNA or RNA. This stain has two fluorescence excitation maxima when bound to nucleic acid, one centered at 309 nm and another at 419 nm. In addition, it has one visible excitation at 514 nm. The fluorescence emission of EuroSafe bound to DNA is centered at 537 nm. EuroSafe is as sensitive as EtBr. Compared to EtBr, known as a strong mutagen, it causes much fewer mutations in the Ames test. In addition, EuroSafe Nucleic Acid Staining Solution (20,000x) has a negative result in mouse marrow chromophilous erythrocyte micronucleus test and mouse spermary spermatocyte chromosomal aberration test.

Features

- Used for detecting DNA e RNA
- Alternative to the ethidium bromide staining
- As sensitive as EtBr or more sensitive than that
- · Less mutagenic than EtBr

Ordering information Cat. Num. Descriptio EMR440001 EuroSafe

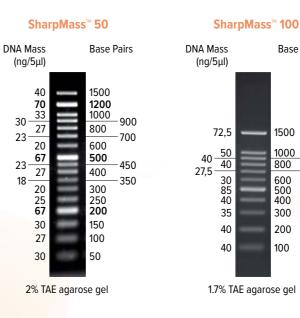
Storage and Stability 5 years at Room Temperature **Shipping** Room Temperature

DNA Ladders

Euroclone has three different DNA Ladders for sizing and approximate quantification of double-stranded DNA fragments such us PCR or restriction digestion products. The ladders have extremely sharp bands and reference bands with higher DNA content for easy orientation. They are designed to show virtually uniform spacing over a wide fragment range.

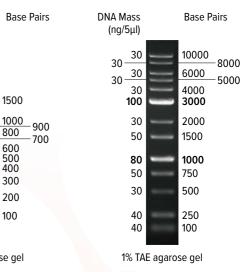
Features

- It is possible to approximate the mass of DNA in comparably intense samples of similar size
- No extraneous high molecular weight bands
- Value load only 5 μl/lane
- · Easy-to-identify reference bands



Size
1 ml

SharpMass[™] 1 kb plus





SharpMass[™] 50 Ready-To-Load DNA Ladder

SharpMass^w 50 Ready-to-load DNA Ladder consists of 17 DNA fragments ranging from 50 bp to 1.5 kb. The 200, 500 and the 1200 base pair fragments have enhanced brightness and can be used as reference points. The fragment mix is supplied in ready-to-use format containing Orange G as tracking dye.

SharpMass[™] 100 Ready-To-Load DNA Ladder

SharpMass[™] 100 Ready-to-load DNA Ladder consists of 11 DNA fragments ranging from 100 bp to 1.5 kb. The 500 and the 1500 base pair fragments have enhanced brightness and can be used as reference points. The fragment mix is supplied in ready-to-use format containing orange and blue tracking dyes.

SharpMass[™]1 kb plus Ready-To-Load DNA Ladder

SharpMass[™] 1 kb plus Ready-to-load DNA Ladder consists of 13 DNA fragments ranging from 0,10 kb to 10 kb. The 1000 bp and the 3000 bp base pair fragments have enhanced brightness and can be used as reference points. The fragment mix is supplied in ready-to-use format containing bromo-phenol blue and xylene cyanol FF tracking dyes.

NEW

Ordering information

Cat. Num.	Description	Size
EMR810100	SharpMass [™] 50 - Ready-to-load DNA Ladder	100 lanes
EMR814100	SharpMass [™] 100 - Ready-to-load DNA Ladder	100 lanes
EMR816100	SharpMass [™] 1 kb plus - Ready-to-load DNA Ladder	100 lanes

Storage and Stability 6 months at 25°C or 12 months at 4°C. Maximal stability (24 months) is achieved at -20°C. Shipping Blue Ice

RELATED PRODUCTS

Nucleic Acids Isolation Systems	.pag. 8 - 13
PCR	.pag. 16
RT-PCR	.pag. 18



Reagents for nucleic acids electrophoresis

MUCLEIC ACIDS ELECTROPHOR ESIS



PROTEINS QUANTITATION, ELECTROPHORESIS AND WESTERN BLOTTING

4

The study of proteins' expression and of their role in cells is one of the main goals in every research program. Our essential products for protein research cover proteins quantitation, electrophoresis and Western Blotting offering reliability, efficiency and reproducibility.

Protein Quantitation

Euroclone protein assay kits are based on the use of bicinchoninic acid (BCA) for the rapid and sensitive detection and quantitation of total protein content. The BCA method is faster and easier than Lowry, with much greater tolerance to interference from non-ionic detergents and buffer salts.

The BCA method combines the biuret reaction, i.e. the reduction of Cu^{2+} ions to Cu^{+} by proteins in an alkaline medium with complexation of the latter with bicinchoninic acid. The purple-colored Cu-BCA complex displays a strong absorbance at 562 nm which is proportional to protein concentration over a broad working range (20-2.000 µg/ml for Quantum Protein and 0.5-20 µg/ml for Quantum Micro Protein).

Protein concentrations are generally determined with reference to standards of a common protein such as Bovine Serum Albumin (BSA). If a more accurate quantitation of an unknown protein is required, the calibration curve has to be constructed using a protein similar to the unknown one.

Protocol at a glance (Quantum Protein)

Add 2 ml working reagent to 100 µl sample

Incubate 30 min at 37°C

Read at 562 nm

Prepare working solution (reagent A plus B ratio 5:1)

Quantum Protein & Quantum Micro Protein Assays

Features

· Easy to use

- Compatible with most common ionic and non-ionic detergents
- Faster than Lowry method
- Linear working range from 20-2.000 μg/ml (BCA) or 0.5-20 μg/ml
- (micro BCA)

Working solution extremely stable

- · Protocol flexibility to increase the sensitivity of the assay
- Cuvette or microplate format

Ordering information

Cat. Num.	Description	Size
EMP014500	Quantum Protein kit (Linear working range 20-2000 μg/ml)	500 tube assays
EMP015480	Quantum Micro Protein kit (Linear working range 0.5-20 μ g/ml)	480 tube assays

Storage and Stability 1 year at Room Temperature

Shipping Room Temperature

Protein Molecular Weight Markers

Prestained SharpMass[™] VI and VII are designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western blot transfer efficiency on membranes (PVDF, nylon, or nitrocellulose) and for approximating the protein size. Markers are supplied in gel loading buffer and are ready to use: no need of heating, diluting, adding reducing agent before loading.

Features

- Ready-to-load
- Broad range of bands
- Colored reference bands
- Stable at Room Temperature for up to 2 weeks

Prestained Protein SharpMass[™] VI

Prestained Protein SharpMass[™] VI is a three-color protein standard with 13 pre-stained proteins covering a wide range molecular weights from 5 to 245 kDa when separated on SDS-PAGE (Tris-glycine buffer). Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band at 25 kDa and 75 kDa respectively).

Prestained Protein SharpMass[™] VII

Prestained Protein SharpMass[™] VII is a three-color protein standard with 10 pre-stained proteins covering a wide range molecular weights from 6,5 kDa to 270 kDa when separated on SDS-PAGE (Tris-glycine buffer). Proteins are covalently coupled with a blue chromophore except for three reference bands (two orange bands at 30 kDa and 270 kDa and one green band at 52 kDa).

Bands pattern of prestained protein SharpMass[™] VI and SharpMass[™] VII in 20% Tris-Glycine SDS-Page.

Ordering information

Cat. Num.	Description	Size
EPS025500	Prestained Protein SharpMass [™] VI	500 μΙ
EPS026500	Prestained Protein SharpMass [™] VII	500 μΙ

Storage and Stability Up to 2 weeks at RT. Up to 3 months at 4°C. 24 months at -20°C. **Shipping** Blue ice

Protein Molecular Weight Markers





Chemiluminescent Substrates for Western Blotting

Euroclone offers a complete range of chemiluminescent substrates to satisfy any need in terms of reliability, sensitivity and signal duration. In addition, all chemicals contained in these substrates have been carefully selected for safety: none of the components has been reported to be hazardous to human health.

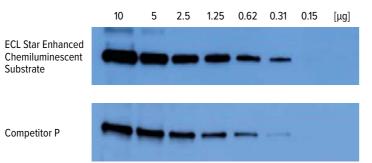
	ECL Star Cat. EMP001005	LiteUP Cat. EMP002005	LiteAblot EXTEND Cat. EMP013001	LiteAblot TURBO Cat. EMP012001
Signal Intensity	- \d -	**	**	**
Sensitivity	Picograms	Picograms to mid femtograms	Mid femtograms	Low femtograms
Signal Duration	Up to 4 hrs	Up to 4 hrs	24 hrs	8 hrs
Volume	250 ml +250 ml	250 ml + 250 ml	50 ml + 50 ml	50 ml + 50 ml
Recommended Antibodies dilutions (1 mg/ml stock solution)	Primary Ab: 1/100-1/5000 Secondary Ab: 1/1000-1/15000	Primary Ab: 1/1000-1/15000 Secondary Ab: 1/25000-1/150000	Primary Ab: 1/1000-1/50.000 Secondary Ab: 1/50000-1/250000	Primary Ab: 10-200 ng/ml Secondary Ab: 1/100000-1/500000

ECL Star Enhanced Chemiluminescent Substrate

ECL Star Enhanced Chemiluminescent Substrate is a two-components, non-radioactive light emitting substrate for the detection of picograms amounts of immobilized specific antigens, conjugated directly or indirectly with horseradish peroxidase HRP-labelled antibodies. It is an excellent chemiluminescent reagent for daily routine WB analysis.

Features

- Optimized sensitivity
- Low Background
- Working solution stable up to 5 days
- Signal duration up to 4 hours



Actin protein expression in a serial dilution of HeLa cells lysate was detected by Western blotting. Image acquisition by imager, exposure time of 60 seconds. ECL Star enhanced chemiluminescent substrate shows a high signal intensity and low background, allowing to achieve better performance than other competitors.

Ordering information

Cat. Num.	Description	Size
EMP001005	ECL Star Enhanced Chemiluminescent Substrate	250 ml + 250 ml (5000 cm ²)

Storage and Stability 1 year at room temperature **Shipping Room Temperature**

LiteUP WB Chemiluminescent Substrate

LiteUP WB Cheminumilescent Substrate is a two-component, a non-radioactive light emitting substrate for the detection of amounts ranging from picograms to mid-femtograms of immobilized specific antigens, conjugated directly or indirectly with HRP-labelled antibodies. It gives optimal performances when the Western Blot needs a high and stable signal intensity and a good sensitivity on medium expressed proteins.

Features

- High signal-to-noise ratio
- Storage at Room Temperature
- Working solution stable up to 3 days
- Signal duration up to 4 hours Cost-effective

Ordering information	_					- •	
	Irc	Orir	101	ınt	orm	atı	\mathbf{n}
	JIU	сп	IU I			au	υn

Cat. Num.	Description
EMP002005	LiteUP WB Cheminumiles

Storage and Stability 1 year at room temperature **Shipping** Room Temperature

LiteAblot[®] EXTEND - Long Lasting Chemiluminescent Substrate

LiteAblot* EXTEND is two-components substrate and has been specifically formulated to provide an intense and extremely stable chemiluminescent signal. For this reason, this product is particularly suggested to customers using imaging systems based on cooled charge coupled device (CCD) technology. Considering the high sensitivity of this substrate compared to standard "ECL-like" products, it can be necessary to dilute primary and secondary antibodies much further.

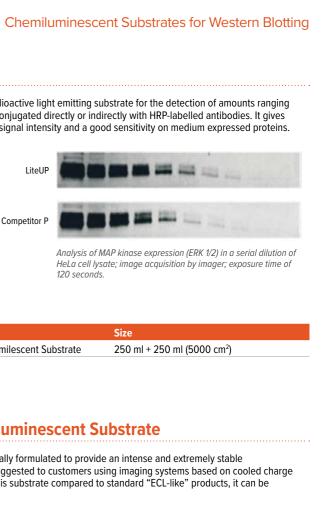
Features

- Excellent sensitivity
- Long lasting signal, stable up to 24 hours

Ordering information

Cat. Num.	Description
EMP013001	LiteAblot® EXTEND

Storage and Stability 1 year at 4°C **Shipping** Room Temperature



LiteA	blot Ex	tend Ch	emilumi	nescent	Substra	te Outst	anding I	ntensity	and Sig	nal Duration	
		•	•	•	٠	•	٠	٠	٠	٠	
	0h	1h	2h	3h	4h	5h	6h	7h	8h	24h	

Images of a 50 pg dot blot incubated 5 minutes with LiteAblot[®] EXTEND. The signal has been captured with a NighOwl Luminograph (Berthold T-echnologies). Readings were taken at the indicated times after incubation, with an exposure time of 10 minutes, except for the last reading (1 hour).

Size	
50 ml + 50 ml	(1000 cm ²)



LiteAblot[®] TURBO - Extra Sensitive Chemiluminescent Substrate

LiteAblot[®] TURBO is Euroclone's chemiluminescent substrate with the highest sensitivity allowing the detection of very low amounts of proteins. It is a two-components reagent. Due to the extreme sensitivity of the substrate it is critical to optimize the primary and secondary antibody dilutions and the exposure times.



Ordering information

Cat. Num.	Description	Size
EMP012001	LiteAblot [®] TURBO	50 ml + 50 ml (1000 cm ²)

Storage and Stability 1 year at 4°C Shipping Room Temperature

Stripping

StripAblot Stripping Buffer

StripAblot is a ready-to-use buffer for the efficient stripping of Nitrocellulose and PVDF membranes probed by Western blotting procedures and detected by chemiluminescent or other non-precipitating substrates. StripAblot Buffer is a robust but gentle formulation for stripping primary and secondary antibodies from blots to enable several reprobings on the same membrane.

Features

- Ready-to- use Rapid protocol (5-15 minutes)
- Mercaptoethanol free

Ordering information

Cat. Num.	Description
EMP100500	StripAblot

Storage and Stability 1 year at RT or 4°C Shipping Room Temperature



Stripping

Size 500 ml





5

PLASTIC FOR MOLECULAR BIOLOGY

PCR, Real Time PCR and sequencing techniques require high quality plates, strips and sealings.

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

Manufacturing and 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 quantitative PCR. In particular, the absence of nucleases (DNases and RNases), pyrogens and human genomic DNA is verified by functional QC. LAL-assay 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.

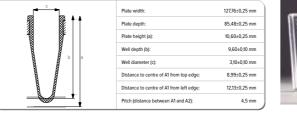
Framestar[®] PCR plates are covered by one or more of the following U.S. patents or their foreign counterparts, owned by Eppendorf AG: US patent nos. 7,347,977 and 6,340,589. *Framestar[®] is a registered trademark owned by 4titude[®]Ltd.*

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.

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)



Ordering information*

Cat. Num.	Description
ECPCR0384C	Framestar® 384 Well plat

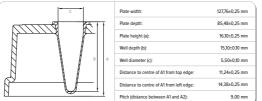
* Please inquire for Roche Light Cycler[©] 480 Framestar[®] semi skirted plates

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 20 µl. The rigid two-component design eliminates warping and distortion during PCR making it ideal for use with robotic systems.

Features

- Clear wells
- Raised well rims prevent cross contamination and facilitate sealing
- Suitable for cap sealing (ECPCR0751 and ECPCR0752), adhesive
- and thermal sealing
- Low profile
 150 μl recommended working capacity (200 μl max capacity)





Description

Ordering information

Cat. Num.
ECPCR0960C

Framestar[®] 96 well plate Skirted Low Profile

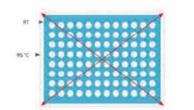
FrameStar[®] Plates

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 96 well plate show low levels of evaporation, so sample loss is high from the two outer rows, meaning more than 65% of the wells.



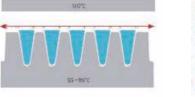


Figure 1

Standard plates with polypropylene frame expand by up to 2 mm 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.



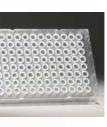
Evaporation from the outer rows (red) is highest, medium level evaporation occurs in the second row (yellow) and sample loss from the inner 32 wells is lowest.

FrameStar® Plates



ate clear wells 50

Qty/Case



Qty/Case

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.

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 (ECPCR0751 and ECPCR0752), adhesive
- and thermal sealing
- 250 μl recommended working capacity (300 μl max capacity)
- Available with upstand

124,26±0,25 mm Plate width 124,26±0,25 mm 83.97±0.25 mm Plate depth 83,97±0,25 mm 20,70±0,25 mm Plate height (a) 23,20±0,25 mm 20,20±0,10 mm Well depth (b) 20,20±0,10 mm 0000000000000 5.46±0.10 mm Well diameter (c) 5.46±0.10 mm 10,495±0,25 mm Distance to centre of A1 from top edge 10,495±0,25 mm 12,63±0,25 mm Distance to centre of A1 from left edge 12,63±0,25 mm ECPCR0770C ECPCR0730C ECPCR07300 9,00mm Pitch (distance between A1 and A2) ECPCR07700 ECPCR07300 ECPCR0770

Ordering information*

Cat. Num.	Description	Qty/Case
ECPCR0770C	Framestar® 96 well plate, semi-skirted, clear wells	50
ECPCR0730C	Framestar® 96 well plate, semi-skirted with upstand, clear wells	50

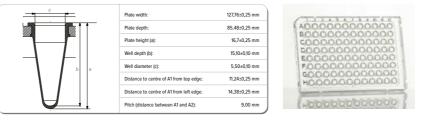
* Please inquire for Roche Light Cycler[®] 480 Framestar[®] semi skirted plates

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 20 µl. 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.

Features

- Recommended for ABi Fat Block thermal cyclers
- Clear wells
- · Raised well rims prevent cross contamination and facilitate
- sealing
- Suitable for cap sealing (ECPCR0751 and ECPCR0752), adhesive and thermal sealing
- Low profile
- 150 μ l recommended working capacity (200 μ l max capacity)





Cat. Num.	Description	Qty/Case
ECPCR0910C	FrameStar® 96 well plate semi skirted, clear wells recommended for ABI Fast cyclers	50



FrameStar® Plates

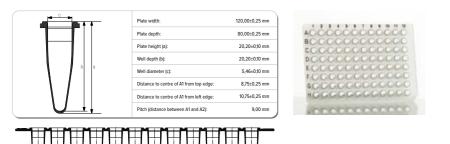
Standard Plates

The thin-walled tubes of Euroclone standard PCR plates maximise heat transfer and the raised rims facilitate sealing. The range consists of nonskirted, two semi-skirted and a fully skirted plate.

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 (ECPCR0751 and ECPCR0752)
- 250 μl recommended working capacity (300 μl max capacity)





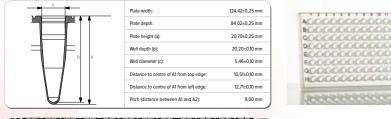
Ordering information

Cat. Num.	Description	Qty/Case
ECPCR0750C	Primo® 96 well plate non-skirted, clear wells	50

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 (ECPCR0751 and ECPCR0752), heat and
- adhesive sealing
- Suitable for bar-coding
- 250 μl recommended working capacity (300 μl max capacity)





Ordering information

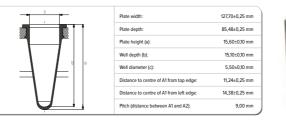
Cat. Num.	Description
ECPCR0760	Primo® 96 well plate Semi-skirted, clear wells

Qty/Case 50

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 (ECPCR0751 and ECPCR0752), heat and adhesive sealing
- Suitable for bar-coding
- 150 µl recommended working capacity (200 µl max capacity)





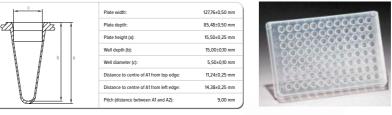
Cat. Num.	Description	Qty/Case
ECPCR0955	Primo® 96 well qPCR plate Semi-skirted for LC480, white wells	50

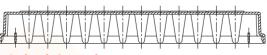
* Please inquire for Roche Light Cycler[©] 480 Framestar[®] semi skirted plates

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 (ECPCR0751 and ECPCR0752), heat and adhesive sealing
- Suitable for bar-coding
- + 150 μ l recommended working capacity (200 μ l max capacity)







ECPCR0740C	Primo [®] 96 well plate Skirted, Low Profile, clear wells

44

Qty/Case

50

5

PCR Tubes & Strips

Euroclone tubes, strips 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

Features

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



Ordering information

Cat. Num.	Description	Qty/Case
ECPCR02F	Primo [®] 0.2 ml Individual PCR tubes, flat caps	1000
ECPCR02D	Primo® 0.2 ml Individual PCR tubes, domed caps	1000

Primo® Tube Strips

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

Features

- Suitable for most standard thermal cyclers
- 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)



ECPCR0208F

ECPCR0208D

Ordering information

Cat. Num.	Description	Qty/Case
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

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.

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)



ECPCR0754

Ordering information

Cat. Num.	Description	Qty/Case
ECPCR0754C	Primo® Low profile 8 tubes/strip. Clear wells + flat optical caps	120 + 120
ECPCR0754	Primo® Low profile 8 tubes/strip. White wells + flat optical caps	120 + 120

Primo® Flat and Domed PCR Cap Strips

Features

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

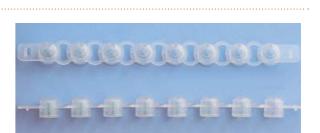


ECPCR08F

Cat. Num.	Description	Qty/Case
ECPCR08D	Primo® strips of 8 domed caps ONLY for PCR tube strips	125
ECPCR08F	Primo® strips of 8 flat optical caps ONLY for PCR tube strips	125
ECPCR0752	Primo [®] strips of 8 domed caps for PCR plates	300
ECPCR0751	Primo® strips of 8 flat optical caps for PCR plates	300
ECPCR0788	Primo [®] strips of 12 flat optical caps for PCR plates	200



ECPCR0754C



ECPCR0752



ECPCR08D

Adhesive Sealing Films & Foils

Adhesive Sealing Films & Foils

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® Adhesive 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.

Features

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



Ordering information

Cat. Num.	Description	Qty/Case	Dimensions
ECPCR0500	Primo® Transparent Adhesive PCR Seal	100 sheets	135 x 80 mm

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.

Features

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



C	Ordering information				
	Cat. Num.	Description	Qty/Case	Dimensions	
	ECPCR0550	Primo® Aluminium Foil Adhesive Seal	100 sheets	130 x 80 mm	

Q-Stick Primo[®] qPCR Seal

This seal combines the strong sealing properties of PCR seal (ECPCR0500) 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.

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
- Seal integrif
 Non-sterile

Ordering information

Cat. Num.	Description	Qty/Case	Dimensions
ECPCR0565	Q-Stick Primo® Adhesive qPCR Seal	100 sheets	133 x 76 mm

Primo[®] qPCR Seal

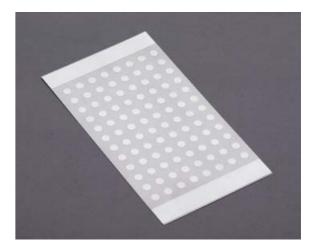
This optically clear seal has been specifically developed for optical applications, especially qPCR. It is non-tacky to skin and gloves enabling ease of handling and application. This is a pressure activated seal: the polyester film has adhesive held within capsules on the underside and pressure must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

Features

- Application: qPCR
- · No adhesive to come into contact with samples
- Non-sterile
- Non-pierceable
- Peelable
- Seal integrity range: -80°C to 110°C

0	Ordering information			
	Cat. Num.	Description		
	ECPCR0560	Primo [®] qPCR Adhesive Seal		

Adhesive Sealing Films & Foils





Qty/Case	
100 sheets	

Dimensions 140 x 77 mm



Primo[®] Peelable DMSO Resistant Adhesive Foil

This aluminium foil seal has a chemically resistant silicone adhesive layer to produce a seal with high levels of solvent resistance, including to Dimethyl Sulfoxide (DMSO).

Features

- Peelable
- Non-pierceable
- Strong adhesive
- High solvent resistance
- Suitable for long term storage
- Free from DNase, RNase, and human genomic DNA
- Seal integrity range: -20°C to 80°C



Ordering information

<u> </u>			
Cat. Num.	Description	Qty/Case	Dimensions
ECPCR0512	Primo [®] Peelable DMSO Resistant Adhesive Foil	100 sheets	122 x 80 mm

Primo[®] Microplate Adhesive Transparent Seal

This transparent polyester-based film has a low strength adhesive and it is removable without residue on the plate; it is useful for short term storage and as a cover for applications such as centrifugation. End tabs allow for easy application and removal.

Features

- Non-pierceable
- Peelable
- Seal integrity range: -20°C to 80°C
- Free from DNase, RNase, and human genomic DNA



Ordering information

Cat. Num.	Description	Qty/Case	Dimensions
ECPCR0510	Primo® Microplate Adhesive Transparent Seal	100 sheets	130 x 80 mm

Heat Sealing Films & Foils

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.

Features

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

Ordering information

Cat. Num.	Description	Qty/Case	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

*Compatible with Thermo Fisher ALPS 300[™]/ALPS 3000[™]/KBiosystem Wasp[™]/KBioscence FlexiSeal and Cube **Compatible with Agilent (Velocity 11) Plateloc® Note: Rolls are also available on 150 mm for REMP sealers. Please enquire

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.

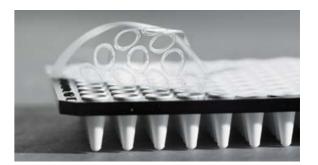
Features

- Application: PCR, gPCR, storage of hazardous material
- Non-pierceable
- Non-peelable Non-sterile
- Seal integrity range: -80°C to 110°C

Ordering information

Cat. Num.	Description
ECPCR0575	Primo® Transparent Seal II

Heat Sealing Films & Foils





Qty/Case 100 sheets

125 x 78 mm

Primo® Transparent Seal for ABi 3730 Sequencer

This thin polyester heat sealing film is easily pierceable with autosampler needles/ABI® 3730; it is suitable for PCR, qPCR and optical applications. It comes as perforated roll, for easy removal of sheets.

Features

- Permanent seal
- Moderate solvent resistance
- Optically clear
- Free from DNase, RNase, human genomic DNA, and endotoxin/ pyrogen
- Seal integrity range: -20°C to 80°C (or 110°C when used with pressurized heated PCR lid)



Ordering information

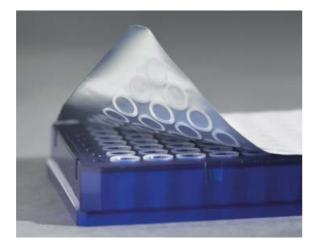
Cat. Num.	Description	Qty/Case	Dimensions
ECPCR0581	Primo® Transparent Seal for ABI 3730 Sequencer (heat sealing)	Approx 1000 sheets on perforated roll	125 x 78 mm

Primo[®] Peelable seal

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

Features

- Application: PCR, Low temperature, compound storage, short
- term room temperature compound storage
- Non-Pierceable
- Peelable
- Non-sterile
- Seal integrity range: -80°C to 90°C (up to 110°C with pressurized heated PCR lid)



Ordering information

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

*Compatible with Thermo Fisher ALPS 300[™]/ALPS 3000[™]/KBiosystem Wasp[™]/KBioscence FlexiSeal and Cube **Compatible with Agilent (Velocity 11) Plateloc Note: Rolls are also available on 150 mm for REMP sealers. Please enquire.

Primo® DMSO resistant Peelable seal

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

Features

- · Application: PCR, Low and room temperature compound storage
- Resistant to 100% DMSO (at room temperature for 12 months with no deterioration of the seal quality)
- Non-pierceable
- Peelable
- Non-sterile
- Seal integrity range: -80°C to 40°C

Ordering information

Cat. Num.	Description	Qty/Case	Dimensions
ECPCR0587	Primo® Peelable Seal DMSO resistant	100 sheets on perforated roll	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

*Compatible with Thermo Fisher ALPS 300[™]/ALPS 3000[™]/KBiosystem Wasp[™]/KBioscence FlexiSeal and Cube **Compatible with Agilent (Velocity 11) Plateloc

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

Primo® Pierceable Seal

Features

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

Ordering information

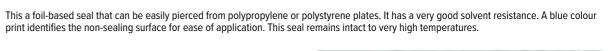
Cat. Num.	Description	Qty/Case	Dimensions
ECPCR0531	Primo [®] Pierceable Seal	100 sheets	125 x 78 mm
ECPCR0530	Primo [®] Pierceable Seal	1 roll*	610 x 78 mm Approx 5000 seals
ECPCR0532	Primo [®] Pierceable Seal	1 roll**	500 x 115 mm Approx 6200 seals

*Compatible with Thermo Fisher ALPS 300[™]/ALPS 3000[™]/KBiosystem Wasp[™]/KBioscence FlexiSeal and Cube **Compatible with Agilent (Velocity 11) Plateloc

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

Heat Sealing Films & Foils









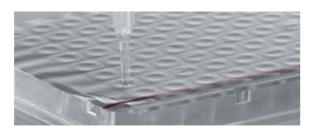
Primo® Foil Peelable and Pierceable seal

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.

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



Ordering information

Cat. Num.	Description	Qty/Case	Dimensions
ECPCR0536	Primo [®] Foil Seal	100 sheets	125 x 78 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

*Compatible with Thermo Fisher ALPS 300"/ALPS 3000"/KBiosystem Wasp"/KBioscence FlexiSeal and Cube **Compatible with Agilent (Velocity 11) Plateloc"

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

Primo[®] Thermal Bond Seal

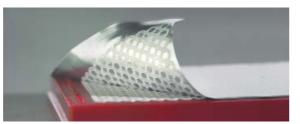
This a very strong polypropylene laminate thermal seal that can be peeled. It has a very good solvent resistance.

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



Ordering information

Cat. Num.	Description	Qty/Case	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

*Compatible with Thermo Fisher ALPS 300[™]/ ALPS 3000[™]/KBiosystem Wasp[™]/KBioscence FlexiSeal and Cube ** <u>NOT</u> compatible with Agilent (Velocity 11) PlatelocR

RELATED PRODUCTS

PCR	pag. 16
qPCR	pag. 17
RT-PCR	pag. 18
Agaroses	pag. 24 - 26
DNA ladders	pag. 27, 28

Heat Sealing Films & Foils

5 PLASTIC FOR MOLECULAR BIOLOGY



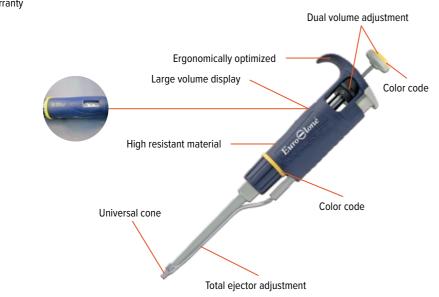
PRIMO® MECHANICAL PIPETTES AND PRIMO® TIPS



Primo[®] mechanical pipettes

High quality devices to guarantee maximum precision and reproducibility of measurement.

- Fully autoclavable
- UV resistant
- Ultra low pipetting forces
 Easy recalibration system
- ✓ 3 years warranty



Ordering information

	Code	Description	Volume [µl]	Accuracy [%]*	Precision [%]*
	ECP10002	Single channel mechanical pipette $Primo^{\circ}$ 0.2 - 2 μl	0.2 1.0 Max 2.0	± 12.0 ± 2.7 ± 1.5	± 2.8 ± 0.6 ± 0.4
	ECP10010	Single channel mechanical pipette Primo^{*} 0.5 - 10 μI	Min 0.5 5.0 Max 10.0	± 4.0 ± 1.0 ± 0.5	± 2.8 ± 0.6 ± 0.4
hanne	ECP10020	Single channel mechanical pipette $\text{Primo}^{*}2$ - 20 μI	Min 2 10 Max 20	± 3.0 ± 1.0 ± 0.8	± 1.5 ± 0.5 ± 0.3
Single Channel	ECP10100	Single channel mechanical pipette Primo° 10 - 100 μI	Min 10 50 Max 100	± 1.6 ± 0.8 ± 0.8	± 0.80 ± 0.24 ± 0.20
•	ECP10200	Single channel mechanical pipette \textrm{Primo}° 20 - 200 $\mu\textrm{I}$	Min 20 100 Max 200	± 1.2 ± 0.8 ± 0.6	± 0.60 ± 0.25 ± 0.20
	ECP11000	Single channel mechanical pipette Primo^{*} 100 - 1000 μI	Min 100 500 Max 1000	± 1.6 ± 0.7 ± 0.6	± 0.40 ± 0.20 ± 0.15
	ECP80010 (+) ECP12010 (#)	Mechanical pipette 8 channel Primo® 0.5 - 10 μl Mechanical pipette 12 channel Primo® 0.5 - 10 μl	Min 0.5 5 Max 10	±10.0 ±4.0 ±2.0	± 8.0 ± 2.0 ± 1.2
annel	ECP80050 (+) ECP12050 (#)	Mechanical pipette 8 channel Primo [®] 5 - 50 μl Mechanical pipette 12 channel Primo [®] 5 - 50 μl	Min 5 25 Max 50	±4.0 ±3.0 ±1.6	± 2.5 ± 1.2 ± 0.6
Multichannel	ECP80200 (+) ECP12200 (#)	Mechanical pipette 8 channel Primo [®] 20 - 200 μl Mechanical pipette 12 channel Primo [®] 20 - 200 μl	Min 20 100 Max 200	±3.0 ±1.5 ±1.0	± 3.0 ± 1.5 ± 1.0
	ECP80300 (+) ECP12300 (#)	Mechanical pipette 8 channel Primo [®] 50 - 300 μl Mechanical pipette 12 channel Primo [®] 50 - 300 μl	Min 50 150 Max 300	±1.6 ±1.2 ±1.0	± 1.5 ± 1.0 ± 0.6
		the second s			

(*) The accuracy and precision (repeatability) of liquid volume depend on the quality of tips used. The values for accuracy and precision given in the table below were obtained using Euroclone tips.

(+) 8 Channel

(#) 12 Channel

Ordoring	information
Ordening	mormation

Cat.	Description
ECP1KIT1	Kit Single Channel Primo $^{\circ}$ 1x (0.5 - 10 μ l), 1x (10
ECP1KIT2	Kit Single Channel Primo $^{\circ}$ 1x (2 - 20 µl), 1x (20 -
ECP1KIT3	Kit Single Channel Primo [®] 2x (0.5 - 10 μl), 1x (10

Primo[®] filter tips

- \checkmark With high quality without cellulose additives, made
- to avoid cross contamination
- Crystal clear quality

- Accurate graduation marks
 Low Retention properties
 Certified DNase, RNase, Human DNA, Pyrogen,
- PCR Inhibitors Free
- Sterile packaging Compatible with most pipettes available on the market

Ordering information

Code	Description	Format
ECTD00010	Primo $^{\circ}$ filter tips 0.1 - 10 $\mu l,$ Sterile, Low Retention, racked	10x96 pcs
ECTD00011	Primo $^{\circ}$ filter tips 0.1 - 10 $\mu l,$ Long, Sterile, Low Retention, racked	10x96 pcs
ECTD00020	Primo $^{\circ}$ filter tips 2 - 20 $\mu l,$ Sterile, Low Retention, racked	10x96 pcs
ECTD00100	Primo $^{\circ}$ filter tips 2 - 100 $\mu l,$ Sterile, Low Retention, racked	10x96 pcs
ECTD00200	Primo $^{\circ}$ filter tips 2 - 200 $\mu l,$ Sterile, Low Retention, racked	10x96 pcs
ECTD00300	Primo® filter tips 2 - 300 µl, Sterile, Low Retention, racked	10x96 pcs
ECTD01005	Primo $^{\circ}$ filter tips 100 - 1000 μ l, Sterile, Low Retention, racked	8x96 pcs

Primo[®] tips

✓ Without filter

✓ Not sterile

Autoclavable Available in: Bulk, Rack and Refill Kit

Ordering information

	ILION	
Code	Description	Format
Bag Not Sterile		
ECTD10010	Primo® tips 0.1 - 10 μl, clear, bag	1000 pcs
ECTD10011	Primo® tips 0.1 - 10 μl, long, clear, bag	1000 pcs
ECTD10200	Primo® tips 2 - 200 μl, clear, bag	1000 pcs
ECTD10300	Primo® tips 2 - 300 μl, clear, bag	1000 pcs
ECTD51000	Primo® tips 100 - 1000 μl, clear, bag	1000 pcs
Rack Not Sterile		
ECTD50010RN	Primo [®] tips 0.1 - 10 μl, Racked	10x96 pcs
ECTD50011RN	Primo® tips 0.1 - 10 μl, Long, Racked	10x96 pcs
ECTD50200RN	Primo® tips 2 - 200 μl, Clear, Racked	10x96 pcs
ECTD50300RN	Primo® tips 2 - 300 μl, Clear, Racked	10x96 pcs
ECTD51000RN	Primo® tips 100 - 1000 μl, Clear, Racked	8x96 pcs
Refill Not Sterile		
ECTD50010RL	Primo® tips 0.1 - 10 μl, Clear, Refill Kit	10x96 pcs
ECTD50011RL	Primo® tips 0.1 - 10 μl, Long, Clear, Refill Kit	10x96 pcs
ECTD50200RL	Primo® tips 2 - 200 μl, Clear, Refill Kit	10x96 pcs
ECTD51000RL	Primo® tips 100 - 1000 μl, Clear, Refill Kit	5x96 pcs

Heat Sealing Films & Foils

10 - 100 μl), 1x (100 - 1000 μl) - 200 μl), 1x (100 - 1000 μl) 10 - 100 µl)



Primo[®] rack for Refill Kit

Primo[®] reloading tips system is the perfect choice for users wishing to save on plastic waste and storage space and is extremely easy to use. Primo[®] empty tips racks are autoclavable and can be reused permanently.



Ordering information

Code	Description	Format
ECTD50010E	Primo $^{\circ}$ rack for 10 μ l reload tips	50 pcs
ECTD50011E	Primo $^{\circ}$ rack for 10 μ l long reload tips	50 pcs
ECTD50200E	Primo [®] rack for 200 μ l reload tips	50 pcs
ECTD51000E	Primo® rack for 1000 μl reload tips	32 pcs

Heat Sealing Films & Foils

PRIMO® MECHANICAL PIPETTES AND PRIMO® TIPS

SERVICES



Services

Our Services have been developed to support the everyday life of Researcher and to offer flexible solutions responding to customers' needs.

needs.

Stockroom

A Stockroom* is a storage place for our products created directly at the customer's site: all researchers have access to Euroclone's kits and reagents directly from their Institute (University or Hospital). The Researcher is free to take an item from the Stockroom whenever needed; every month the customer will get a summary of the pickings and the corresponding order will be processed. The stocks are automatically reinstated by Euroclone based on customer's consumption.

The list of products available in stock is completely customizable and can be modified at any time.

The ordering procedure is customizable according to the customer's

*Stockroom and Virtual Stockroom are services available only in Italy.

Virtual Stockroom

The Virtual Stockroom service* allows customers to place orders online through a reserved portal; it is a special system which makes purchase simple and still compliant with MEPA requirements (Mercato Elettronico della Pubblica Amministrazione). Virtual StockRoom's customers not only have dedicated annual supply conditions and offers, but also can take advantage of temporary promotions, both for Euroclone branded products and for distributed product lines.

Scheduled annual deliveries

The annual order with the scheduling of deliveries, on agreed dates, allows to avoid problems and delays and always be provided with the right supply of products.

Technical Sales Specialist

Euroclone technical specialists are available providing a wide range of services to support all needs (both for Euroclone products and for distributed products) thus offering important direct support on the Italian territory.

Technical Sales Assistant

The technical assistant takes care of all the post-sales operational needs.

Contact: tsa@euroclone.it / 800-315911

- ✓ Pre and post sales consultancy
- \checkmark Instrument installation
- Training using instruments
- Technical and practical demonstrations
- ✓ Technical assistance
- ✓ Troubleshooting
- Scientific support
- Provides technical information
- ✓ Handles requests with the supplier technical service
- Technical support on the consumable

Quality

The medical devices we market and the in vitro diagnostic devices used in cytogenetics comply with European regulations 2017/745 e 2017/746. Euroclone sells its own brand products in Europe and in non-European countries in compliance with international regulations, including the DUAL USE regulation.

Certifications

ISO 9001, ISO 13485 e ISO 14001.

MOLECULAR BIOLOGY

ISO 9001 and ISO 13485 certify that our company, from the point of view of design, development, technical assistance and marketing for products for life sciences, medical devices and in vitro diagnostic devices, complies with the regulations currently in force.

Services

Euroclone is a supplier of companies in the Biotech area – Pharma that work in GMP, and guarantees products FFM (For Further Manufacture) in compliance with specificic Quality Technical Agreement defined with individual customers.

ISO 14001 certifies that Euroclone works in full respect of the environment and its actions are characterized by a strong ecological footprint.

65

SERVICES



TECHNICAL APPENDIX



Plate compatibility table

Plate co	omp	atil	bility	/ ta	ble																					 																											
		ABi Life Technologies/ Thermo Fisher Scientific	al Cyclers	Agilent/Stratagene			Analytik Jena/Biometra		Bioer Technologies			BioRad			BioRad MJ Research		Corbett Research	Ennandorf	Eppendorr		Euroclone Bioer		Euroclone PeqLab		LCCLAD/VWR		Sensoquest	Takara			Techne			qPC	R Cycler:	ABI Life Technologies/	Inermo Fisher Scientific			Agilent/Stratagene		Analytik Jena/Biometra		Bio-Rad		BioRad MJ Research	Corbett Research	Eppendorf	Roche	S	lechne	Abi Life Technologies	GE Healthcare/Amersham
	96 well standard block	96 well FAST block	384 well block	384 well block	96 well block	Auto schute	96 well block	Strips only	96 well block	384 well block Strins only		96 well block	384 well block Strips only	fuo elun	96 well block	384 well block 96 well block	384 well block	- 96 well block	384 well block	24 well block	96 well block	2X48/9b/384 well block 96 well block	384 well block	Strips only	384 well block	96 well block	19.4 Well block 384 Well block	96 well block	Strips only		96 Well Dlock		384 well block		96 well standard block		96 well FAST block		384 Well DIOCK	96 well block	96 well block	384 well block	- 96 well block	384 well block	Strips only	- 96 well block	Strips only	96 well block	384 well block	Strips Only	96 well block 96 well block	384 well block	96 well block 384 well block
	Vertit, Proflex, Simpliamp Genolmer, 5700-575066000200	verkentip 2.700/27.2090/099100 GeneAnip" 9800 FAST, Veriti FAST	GeneAmp 9700, Veriti, Proflex, Multiblock system Geneverlex 8800	unity part of the 8800	er Grad	uruo, ipersoliai, is inerimo,yuei Hexcyder z 11 thermocyder, Tgradient, Tone, Taðvanced, Tprofessional (Standard/Basic) Gradient/XI.	Trabat 96, SpeedCycler 2 (SP, SPR) Eleverated 7 11 Thermonucler Tharlanced Tharlascional Trobat 96	termocycler, idovanceu, i Friolessional, mouot	Gene Touch 96	Gene Touch 384 Genoemere	verestycen C1000 Tauch, S1000	lCycler", MyCycler", T100	Cto00 Touch, S1000 Mini Gradient	Personal Personal	PTC:00^7200^722072257240"	PIC2007220 7221 7236 7240 - (0iagen) Palm Cycler	(0iagen) Palm Cycler 384	MasterOyder" epise gradient/Pro/Pro Sinexus/nexus gradient/nexus SXI/nexus GSXI Maeter/orden: movie V37(sY3/sY3-sY3-s	mastertyder i rexus Azlov.zlov.zlov.ze Mastertyder" ep 384/Pro 384	EuroCycler Mini	EuroÖytler 96 Gradient	eurocycier Hex Eurocione PeaStar 96 Universal/Gradient	Eurocione PeqStar 384	pedSTAR XS, pedSTAR 2X	pedsTark 30A pedsTark 384X	Labyder	Laboyder Labovder	Dice touch, Gradient	3P time, 3P timeG, 3P timeX	Prime, Prime Elite, Prime Elite Satellite	Pckmax Alpha Gyder 7/2/4 TCH2, TC512, Genius, Genius, Quad, Touchgene, Touchgene Gradient, Flexigene	.=	PCRmax Alpha cycler V2/4 TC412 TC512 Gentile: Gentile: Olad Flexione	7700,7900	0uemtStudio" 3/5/67/12k, VIIA7"	StepOne Sterome Plus"	7500 FAST, 7900 HT FAST	QuartStudio" 35/67/128, VIIA7" Occurrente de remoistrices	icki i 1000', 'Aki', Vizi', Vizi', And		MA4000 GTOVERY.GAnuch. Tonical	doment suscent opprant	CFX96 Touch, CF96X Touch Deep Well, CFX comect MANON INTERNATION AND E	My/0", Exciten10/0.4/0.5 CRX384 Touch	MinO pitcon	Chromod" Opticon2*	upresent. Rotor-Gene series	MasterCyder" ep realplex	Long, Longu LC480	Nano	Quantica 3100, 3130XL, 3500, 3500XL, 3730, 3730XL	3100, 3130XL, 3500, 3500XL, 3730,3730XL	MegaBACE* 500, MegaBACE* 1000 mark 2 MegaBACE* 4000
FrameStar® Pla ECPCR0384C 384 well	tes		x	x			x	τ		x			x			x	x		x			ĸ	x		x		x					x	x x	:				3	c			x		x								x	x
ECPCR0960C 96 well unskirted					x	x	x				x				x			x			x	x x		1	¢	x		F			x								x				x			x x		x			x		x
ECPCR0770C 96 well semi- skirted	x x	(x	x		x		x	x			x	x		x				x		1	c	x		x		x	x x			x	x					x	x x		T	x		x		x			x		
ECPCR0730C 96 well semi skirted with upstand	x x	¢																								x								x	x						x										x		
ECPCR0910C 96 well semiskirted		x																								x										x	x	x															
Standard Plate ECPCR0750C 96 well unskirted	s x x	¢	x		x	x	x		x		x	x			x	x		x x	c					1	c	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		1	c	x		x		x	x x			x	x					x	x x			x		x		x			x		
ECPCR0740C 96 well skirted					x		x				x				x			x		x		x		1	¢	x					x								x				x			x x		x			x		x
ECPCR0955 96 well semiskirted for LC Roche. White wells																																																	ĸ				
Tubes and Strip	x x	ζ.	xx		,	x	x	x	x	x	x	x	x		x	x		x	(x	x	x x		x	κ	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					x x	x	x	x	x			x x	x	x	x x		x		x	x		x

Technical Appendix

8 TECHNICAL APPENDIX

Adhesive Seal Films and Foils

Description	Primo [®] Adhesive PCR seal	Primo [®] PCR Aluminium foil seal	Q-Stick Primo® qPCR Seal	Primo [®] qPCR seal	Primo [®] Peelable DMSO Resistant Adhesive Foil	Primo® microplate seal
Cat.	ECPCR0500	ECPCR0550	ECPCR0565	ECPCR0560	ECPCR0512	ECPCR0510
Application	PCR, qPCR	PCR & sample storage	qPCR, fluorescence (96-well microplates only)	qPCR & other fluorescent applications	Microplate sealing containing solvents incl. DMSO	Aqueous sample storage
Special Properties	Good optical clarity	Irregular tearing when pierced prevents formation of vacuum	Discreet optical windows for 96-well plates	Good optical clarity	High solvent resistance	Medium strength transparent seal
Min Temp	-20°C	-40°C	-20°C	-80°C	-20°C	-20°C
Max Temp	110°C	120°C	110°C	110°C	80°C	80°C
Sterile	No	No	No	No	No	No
Pierceable	No	Yes	No	No	No	No
Peelable	Yes	Yes	Yes	Yes	Yes	Yes
RNase/DNase free	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions	135 x 80 mm	130 x 80 mm	133 x 76 mm	140 x 77 mm	122 x 80 mm	130 x 80 mm

Heat Sealing Films & Foils

Description	Primo [®] Transparent Seal I	Primo [®] Transparent Seal II	Primo [®] Transparent Seal For ABI 3730 Sequencer	Primo [®] Peelable seal	Primo [®] DMSO resistant Peelable seal	Primo [®] Pierceable seal	Primo [®] Foil Peelable and Pierceable seal	Primo [®] Thermal Bond Seal
Roll 78 mm width (1) (lenght)	ECPCR0540 (500 mm)	-	-	ECPCR0520 (610 mm)	ECPCR0585 (500 mm)	ECPCR0530 (610 mm)	ECPCR0535 (610 mm)	ECPCR0590 (500 mm)
Roll 115 mm width (2) (length)	ECPCR0542 (350 mm)	-	-	ECPCR0522 (500 mm)	ECPCR0586 (500 mm)	ECPCR0532 (500 mm)	ECPCR0537 (500 mm)	ECPCR0592 (300 mm)
Sheets (dimensions)	ECPCR0541 (125 x 80 mm)	ECPCR0575 (125 x 80 mm)	ECPCR0581 (+) (125 x 78 mm)	ECPCR0521 (125 x 78 mm)	ECPCR0587 (#) (125 x 78 mm)	ECPCR0531 (125 x 78 mm)	ECPCR0536 (125 x 78 mm)	ECPCR0591 (125 x 78 mm)
Application	qPCR, short term compound storage	PCR (esp. water bath cyclers), qPCR, Storage & disposal of hazardous materials	qPCR and for use with ABI 3730 Sequencer	Low temperature, compound storage, short term room temperature compound storage (<5 days), PCR	Low/room temperature compound storage with DMSO & 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
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	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 othe solvents
Min Temp	-80°C	-80°C	-20°C	-80°C	-80°C	-20°C	-20°C	-200°C
Max Temp	80°C (or 110°C with pressurised heated PCR lid)	110°C	80°C (or 110°C with pressurised heated PCR lid)	90°C (or 110°C with pressurised heated PCR lid)	40°C	120°C	110°C	110°C
Sterile	No (*)	No (*)	No (*)	No (*)	No (*)	No (*)	No (*)	No (*)
Pierceable	No	No	Yes	No	No	Yes	Yes	No
Peelable	Yes	No	No	Yes	Yes	No	Yes	Yes
RNase/DNase free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Material	Laminate	Polymer	Polymer	Laminate	Laminate	Foil	Foil	Laminate
Seals to	PP, PE, PS, PC, COC	PP	PP, PE, PS, COC	PP, COC	PP, PE, COC	PP, PS	PP, PS	PP

* Available as sterile on request

(+) 1000 sheets supplied on a perforated roll

(#) 100 sheets supplied on a perforated roll

(1) Compatible with Thermo Fisher ALPSs 300[™]/ALPS3000[™]/KBiosystems Chameleon[™]/KBioscience FexiSeal & Remp/Tecan Plate Sealer

(2) Compatible with Agilent (Velocity 11)PlateLoc*

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

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

Technical Appendix

8

Compatibility chart: for tips compatibility with other pipettes brand

Compatibility	chart: for tip	s compatibil	lity with other	pipettes bra	Ind		 					
	ECTD10010 ECTD50010RN ECTD50010RL	ECTD00010	ECTD50011RN ECTD50011RL ECTD10011	ECTD00011	ECTD00020	ECTD00100	ECTD50200RN ECTD50200RL ECTD10200	ECTD00200	ECTD10300 ECTD50300RN	ECTD00300	ECTD51000RN ECTD51000RL ECTD51000	ECTD01005
Primo [®] mechanical pipettes	0.1 - 2 μl 0.5 - 10 μl	0.1 - 2 μl 0.5 - 10 μl	0.2 - 2 μl 1 - 10 μl	0.1 - 2 μΙ 0.5 - 10 μΙ	2 - 20 μl	2 - 20 μl 10 - 100 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	100 - 1000 μl	100 - 1000 μl
CAPP bravo, ecopipette and CAPPaero single channel pipette	0.2 - 2 μl 0.5 - 10 μl	0.2 - 2 μl 0.5 - 10 μl	0.2 - 2 μl 0.5 - 10 μl	0.2 - 2 μl 0.5 - 10 μl	-	5 - 50 μl 10 - 100 μl	2 - 20 μl 5 - 50 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 5 - 50 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 5 - 50 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 5 - 50 μl 10 - 100 μl 20 - 200 μl	100 - 1000 μl	100 - 1200 μl
CAPP electronic pipettes and CAPPaero multichannel	0.5 - 10 μl 2 - 20 μl	0.5 - 10 μl 2 - 20 μl	0.5 - 10 μi 2 - 20 μl	0.5 - 10 μl 2 - 20 μl	2 - 20 µl	5 - 50 μl 10 - 100 μl	5 - 50 μΙ 10 - 100 μΙ 20 - 200 μΙ	5 - 50 μΙ 10 - 100 μΙ 20 - 200 μΙ	5 - 50 μl 10 - 100 μl 20 - 200 μl 30 - 300 μl	5 - 50 μl 10 - 100 μl 20 - 200 μl 30 - 300 μl	100 - 1200 μl	100 - 1000 μl
Biohit eline, mline, Proline Plus	0.1- 3 μl 0.5 - 10 μl	0.1 - 3 µl 0.5 - 10 µl	0.1 - 3 μl 0.5 - 10 μl	0.1 - 3 μl 0.5 - 10 μl	2 - 20 µl	2 - 20 μl 10 - 100 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	10 - 100 μl 20 - 200 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	100 - 1000 μl	100 - 1000 μl
Brand, Transferpette S, Transferpette S Electronic	0.5 - 10 μl	0.5 - 10 µl	0.5 - 10 μl	0.5 - 10 μl	2 - 20 µl	-	2 - 20 μl 10 - 100 μl 20 - 200 μl	20 - 200 µl	20 - 200 μl 15 - 300 μl	20 - 200 μl 15 - 300 μl	100 - 1000 μl	100 - 1000 μl
Eppendorf reference, Research Plus	0.1 - 2.5 μl 0.5 - 10 μl	0.5 - 10 μl	0.1 - 2.5 μl 0.5 - 10 μl	0.1 - 2.5 μl 0.5 - 10 μl	2 - 20 µl	2 - 20 μl 10 - 100 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	20 - 200 µl	10 - 100 μl 20 - 200 μl 30 - 300 μl	10 - 100 μl 20 - 200 μl 30 - 300 μl	100 - 1000 μl	100 - 1000 μl
Finnpipette	0.5 - 10 μl	0.5 - 10 μi	0.5 - 10 μi	0.5 - 10 μl	2 - 20 µl	5 - 50 μl	2 - 20 μl 5 - 50 μl 20 - 200 μl	5 - 50 μl 20 - 200 μl	5 - 50 μl 20 - 200 μl 30 - 300 μl	5 - 50 μl 20 - 200 μl 30 - 300 μl	100 - 1000 μl 200 - 1000 μl	100 - 1000 μl 200 - 1000 μl
Gilson pipetman	0.2 - 2 μl 1 - 10 μl	0.2 - 2 μl 1 - 10 μl	0.2 - 2 μl 1 - 10 μl	0.2 - 2 µl 1 - 10 µl	2 - 20 µl	2 - 20 μl 10 - 100 μl	2 - 20 μΙ 20 - 100 μΙ 50 - 200 μΙ	2 - 20 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 20 - 100 μl 50 - 200 μl	2 - 20 μl 20 - 100 μl 50 - 200 μl	100 - 1000 μl 200 - 1000 μl	100 - 1000 μl 200 - 1000 μl
Rainin classic, universal shaft (non lts)	0.1 - 2 μl 0.5 - 10 μl	0.1 - 2 μl 0.5 - 10 μl	0.2 - 2 μl 1 - 10 μl	0.1 - 2 μl 0.5 - 10 μl	2 - 20 µl	2 - 20 μl 10 - 100 μl	2 - 20 μΙ 10 - 100 μΙ 20 - 200 μΙ	2 - 20 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	100 - 1000 μl	100 - 1000 μl
Vwr, labnet	0.1 - 2 μl 0.5 - 10 μl	0.1 - 2 μl 0.5 - 10 μl	0.2 - 2 μl 1 - 10 μl	0.1 - 2 μl 0.5 - 10 μl	2 - 20 µl	2 - 20 μl 10 - 100 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	2 - 20 μl 10 - 100 μl 20 - 200 μl	100 - 1000 μl	100 - 1000 μl

Technical Appendix

8

Notes	Ν	otes
-------	---	------

MOLECULAR BIOLOGY

Notes	



Euro⊖lone

serving science through innovation

Euroclone S.p.A.

Via Figino, 20/22 20016 Pero (MI) Italy T +39 02 38195.1 F +39 02 33913713 M info@euroclone.it

www.Euroclone.it

Quality Management Systems and Enviromental certified according to EN ISO 9001, ISO 13485 and EN ISO 14001

PR 2043_Bio_Mol_0220_ed2