



## Product List



Molecular Biology and  
Protein analysis

The right choice for:

- Proteins
- DNA electrophoresis
- PCR, q PCR and RT-PCR



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**EuroClone SpA**, [www.euroclone.it](http://www.euroclone.it)

# The Right Choice for Proteins

## QUANTIFY

**Quantum Protein Assays (BCA):** Colorimetric quantitation of total proteins either in tube or in microplate.

- ◆ Easy to use
- ◆ Compatible with most common detergents
- ◆ Working solution extremely stable
- ◆ Available in two different formats to allow quantitation of either standard or dilute samples



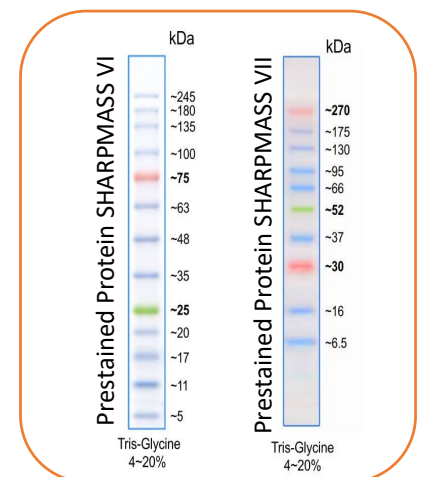
### TOTAL PROTEIN ASSAY KIT

Code	Description	Size	Features
EMP014500	Quantum Protein Assay Kit - BCA Assay Kit	500 test tubes or 5000	Linear working range 20-2000 g/ml
EMP015480	Quantum Micro Protein Assay Kit- BCA Assay Kit for dilute samples	480 test tubes or 3200	Linear working range 0,5-20 g/ml

## RUN

**SHARPMASS:** Prestained protein molecular weight markers

- ◆ Ready-to-load
- ◆ Broad range of bands
- ◆ Colored reference bands
- ◆ Stable at room temperature for up to 2 weeks



### PRESTAINED PROTEIN MARKERS

Code	Description	Size	Features
EPS025500	Prestained Protein SHARPMASS VI (5-245 kDa)	100 lanes	13 bands: green reference at 25 kDa and red
EPS026500	Prestained Protein SHARPMASS VII (6,5-270 kDa)	100 lanes	10 bands: green reference at 52 kDa and red

## DETECT

**EuroClone Western Blot substrates:** Chemiluminescent substrates for all the needs of sensitivity and signal duration.

- ◆ Easy to use
- ◆ Rapid development of signal
- ◆ High signal-to-noise ratio
- ◆ Detection either on traditional films or on CCD cameras

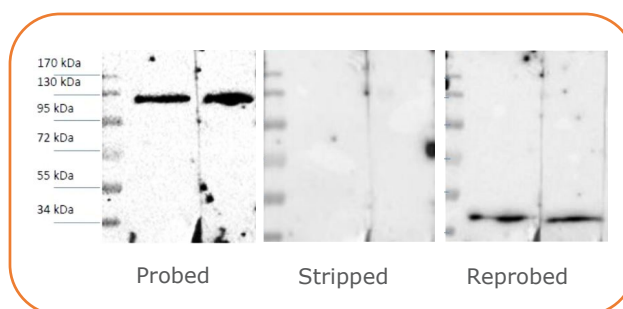


REAGENTS			
Code	Description	Size	Features
EMP001005	ECL Star Enhanced Chemiluminescent Substrate	250ml + 250ml	Standard ECL substrate with the highest signal
EMP011005	LiteAblot Plus Enhanced Chemiluminescent Substrate	250ml + 250ml	Medium intensity signal
EMP002005	LiteUP WB Chemiluminescent Substrate	250ml + 250ml	Medium to high intensity signal at low price
EMP013001	LiteAblot Extend Long Lasting Chemiluminescent Substrate	50 ml + 50 ml	Strong and long lasting signal. Recommended for use with CCD cameras
EMP012001	LiteAblot Turbo Extra-Sensitive Chemiluminescent Substrate	50 ml + 50 ml	Highest sensitivity. Recommended for the detection of low abundant proteins

## STRIP

**StripAblot stripping buffer:** stripping buffer for rapid removal of primary and secondary antibodies from western blot.

- ◆ Save time and sample: re-probe the membrane using the same target sample
- ◆ Efficient and rapid stripping: fast protocol, more efficient than "homemade" buffers
- ◆ Gentle: does not damage the target antigen during stripping allowing efficient re-probing
- ◆ Odor-free: no  $\beta$ -Mercaptoethanol



STRIPPING SOLUTION			
Code	Description	Size	Features
EMP100500	StripAblot Stripping Buffer	1 L	Ready-to-use solution

# The Right Choice for DNA electrophoresis

## AGAROSSES

Use the table below to choose the right agarose for your needs.

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

AGAROSSES		
Code	Description	Size
EMR920500	Agarose LE Agarose for Nucleic Acids routine screening electrophoresis	500 g
EMR010100	GellyPhor®LE agarose	100 g
EMR010500	GellyPhor®LE agarose	500 g
EMR010001	GellyPhor®LE agarose	1 kg
EMR911100	GellyPhor®LM agarose	100 g
EMR912100	GellyPhor®HR agarose	100 g
EMR915100	GellyPhor®ULTRA agarose	125 g
EMR916100	GellyPhor®PFGE agarose	100 g

## NUCLEIC ACID STAIN

**Euro Safe Nucleic Acid Staining Solution:** is a 20,000x safe nucleic stain, an alternative to the traditional ethidium bromide stain for nucleic acid detection in agarose gels. It emits green fluorescence when bound to DNA and RNA. Compared to Ethidium Bromide it causes much fewer mutations in the Ames Test.

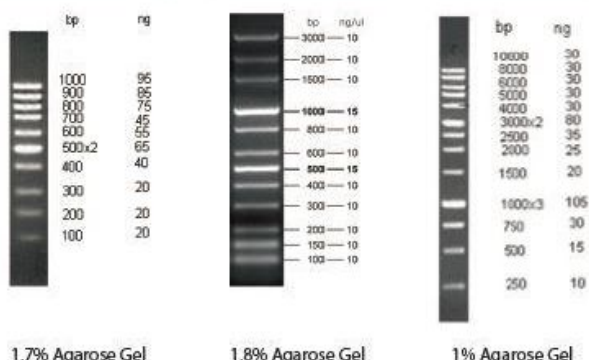
NUCLEIC ACID STAIN		
Code	Description	Size
EMR440001	EuroSafe - Fluorescent Nucleic Acid Stain 20.000X	1 ml

## SHARPMASS DNA LADDERS

**SHARPMASS:** DNA ladders for sizing and approximate quantification of double-stranded DNA fragments such as PCR products

- ◆ Ready-to-load
- ◆ Room temperature stable
- ◆ Sharp bands
- ◆ Reference bands with higher DNA content for easy identification

### EMR810100    EMR814100    EMR815100



NUCLEIC ACID STAIN		
Code	Description	Size
EMR810100	SharpMass™ 50 - Ready-to-load DNA Ladder	100 lanes
EMR814100	SharpMass™ 100 -100bp Ready-to-load DNA Ladder	100 lanes
EMR813100	SharpMass 100 Plus - Ready-to-load DNA Ladder™	100 lanes
EMR815100	SharpMass™ 1 kb - Ready-to-load DNA Ladder	100 lanes

# The Right Choice for PCR, qPCR and RT-PCR

## DNA Polymerases

**Wonder Taq:** A unique DNA polymerase engineered to give robust amplification and high yield with different PCR templates.

- ◆ Superior processivity: exceptional yield, strong sensitivity and fast amplification thanks to increased affinity for DNA
- ◆ Amplification of difficult templates: optimized buffer (containing dNTPs and MgCl<sub>2</sub>) allowing amplification of GC-rich and low abundant targets
- ◆ High Specificity: available also as hot start

DNA POLYMERASES			
Code	Description	Size	Features
EME020001	Wonder Taq	1.000 units	Optimized buffer containing dNTPs and MgCl <sub>2</sub>
EME023500	Wonder Taq Hot Start	500 units	Antibody-mediated hot start, reducing non-specific amplification and primer-dimer formation

## Real-Time PCR Master Mixes

**FluoCycle II Master Mix:** Ready-to-use 2X solutions optimized for Real-Time PCR.

- ◆ Specificity: Takes advantage of Wonder Taq Hot Start Polymerase and its optimized buffer to eliminate non-specific amplification and primer-dimer formation
- ◆ Detection of low copy number targets
- ◆ Highly reproducible and minimum hands-on time
- ◆ Wide linear range

REAL-TIME PCR MASTER MIXES			* Considering a final reaction volume of 50 ul
Code	Description	Size	Features
ERD001250BIM	FluoCycle II™ Master Mix for Probe 2X HS Master Mix for Real Time PCR with probe	250 rxns*	For detection of amplification products with sequence specific fluorogenic probes. Primers, probe and template must be added before use.
ERD002250BIM	FluoCycle II™ SYBR® Master Mix 2X HS Master Mix for Real Time PCR with SYBR® Green	250 rxns*	Contains the green intercalating dye allowing DNA detection and analysis without using sequence specific probe. Only primers and template must be added before use.

## dNTPs and ancillaries for RT-PCR

**dNTPs and NTps:** manufacturing process and refined purification ensure the highest quality.

- ◆ Ultrapure (>99%)
- ◆ Free of PCR inhibitors
- ◆ Available as single bases, set, or dNTPs mix

REAGENTS			
Code	Description	Size	Features
EMR272025	dATP 100 mM Solution	250 ul (25 umol)	Single ready-to-use 100 mM solutions. Purity checked by HPLC. Quality checked by a set of PCR, RT-PCR and Klenow reactions.
EMR273025	dCTP 100 mM Solution	250 ul (25 umol)	
EMR274025	dGTP 100 mM Solution	250 ul (25 umol)	
EMR275025	dTTP 100 mM Solution	250 ul (25 umol)	
EMR417002	dATP 100 mM solution	2 x 1 ml (2 x 100 umol)	
EMR418002	dCTP 100 mM solution	2 x 1 ml (2 x 100 umol)	
EMR419002	dGTP 100 mM solution	2 x 1 ml (2 x 100 umol)	
EMR420002	dTTP 100 mM solution	2 x 1 ml (2 x 100 umol)	
EMR276425	dNTPs Set 4 x 25 umoli	4 x 250 ul (4 x 25 umol)	Set of single solution.
EMR276001	dNTPs Set 4 x 100 umoli	4 x 1 ml (4 x 100 umol)	
EMR415001	dNTP Mix 25 mM solution	1 ml (25 umol)	Mixture of dATP, dCTP, dGTP and dTTP; final concentration of each nucleotide 10 or 25 mM
EMR416001	dNTP Mix 10 mM	1 ml (10 umol)	
EMR416200	dNTP Mix 10 mM	200 ul (2 umol)	
EMR423001	ATP	100 umol	Ready-to-use solutions, optimized for <i>in vitro</i> transcription with the common polymerases and the major commercially available transcription kits
EMR424001	CTP	100 umol	
EMR425001	GTP	100 umol	
EMR426001	UTP	100 umol	

**RNase Inhibitor:** completely inhibits RNases activity by binding them in a 1:1 ratio.

- ◆ For cDNA/RT-PCR synthesis, *in vitro* transcription, *in vitro* transduction, isolation of mRNA-Protein complexes and any other applications requiring the preservation of RNA

REAGENTS			
Code	Description	Size	Features
EMR436050	RNase Inhibitor	50 ul (2000 units)	Inhibits the activity of RNases A, B, C by non-covalent binding., does not inhibits RNases I, T1, T2, H, U1, U2 and CL3
EMR436250	RNase Inhibitor	250 ul (10000 units)	

**Oligo (dT)<sub>20</sub> Primers and Random Hexamers:** primers for PCR based applications.

- ◆ Oligo (dT) Primer hybridize to the poly(A) tail of mRNA
- ◆ Random Hexamers are a mixture of oligonucleotides representing all possible sequences for an hexamer

REAGENTS			
Code	Description	Size	Features
EMR433200	Oligo (dT) Primer 100 μM	200 ul	For first strand cDNA synthesis with reverse transcriptase
EMR433001	Oligo (dT) Primer 100 μM	1 ml	
EMR428001	Random Hexamers 100 μM	200 ul	For DNA labelling by PCR (DOP-PCR) or cDNA synthesis by RT-PCR
EMR428200	Random Hexamers 100 μM	1 ml	

## Plates and Sealing Tapes for PCR and Real Time PCR

**Primo® Plates:** The thin-walled tubes of these PCR plates maximise heat transfer and the raised rims facilitate sealing and prevent cross contamination. Complete range of non-skirted, semi-skirted and fully skirted plates.

- ◆ Clear wells
- ◆ Black grid reference for easy sample identification
- ◆ Compatible with most thermal cyclers and sequencers

REAGENTS			
Code	Description	Size	Features
ECPCR0740C	Primo® standard 96 PCR plates skirted low profile	50 plates	Cut-off corner at H1
ECPCR0750C	Primo® 96 well plate non-skirted, clear wells	50 plates	Cut-off corner at H12
ECPCR0760	Primo® 96 well semi skirted PCR plate, natural	50 plates	Cut-off corner at A12
ECPCR0500	Primo® Transparent Adhesive PCR Seal	100 sheets	PCR & qPCR. Seal integrity range: -20°C to 110°C. Peelable.
ECPCR0550	Primo® Aluminium Foil Adhesive Seal	100 sheets	PCR. Seal integrity range: -40°C to 120°C. Peelable and pierceable.
ECPCR0560	Primo® qPCR Adhesive Seal	100 sheets	qPCR. Seal integrity range: -20°C to 110°C.
ECPCR0510	Primo® Adhesive transparent seals	100 sheets	Storage. Seal integrity range: -40°C to 80°C. Peelable.