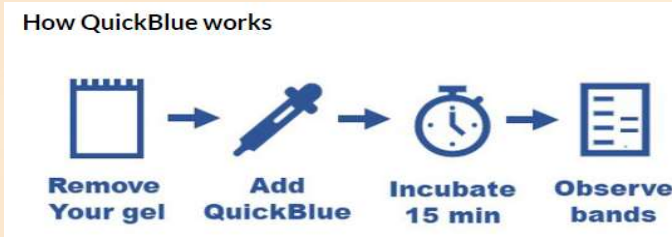


# PROMOTIONAL OFFER

VALID UNTIL

November 30th, 2023

### How QuickBlue works



### QUICKBLUE® PROTEIN STAIN

QUICKBLUE - NEVER WASH OR DESTAIN AGAIN

- Complete staining in 15 minutes, no destaining needed
- Store at room temperature, re-use up to 3 times
- Contains no harmful chemicals or acids, can be disposed of down the sink after staining
- 100% compatible with mass spectrometry analysis

LB-LU001000 1L 151,30 € HT

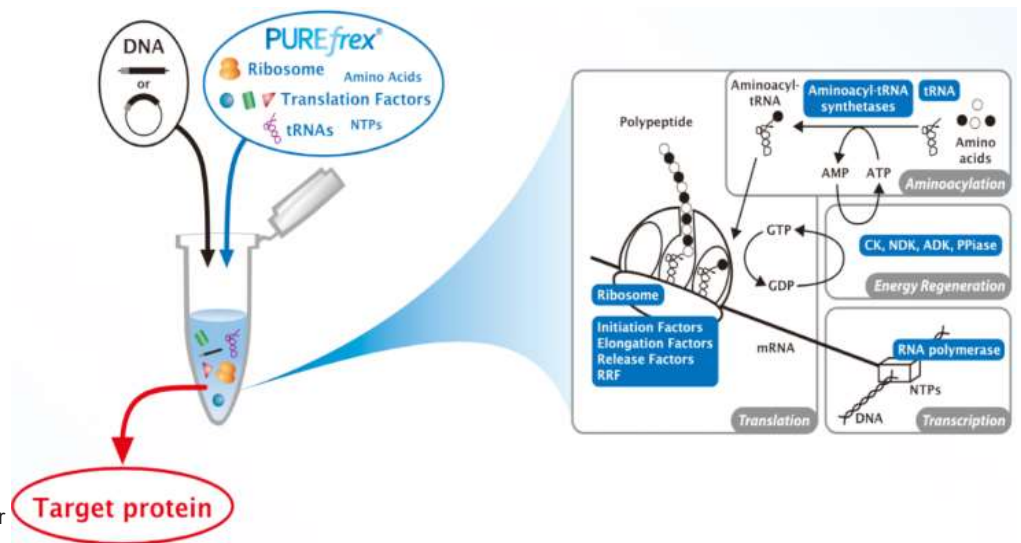
### PUREFLEX®

Reconstituted, Recombinant Cell Free Protein Synthesis

PUREflex® is an in vitro coupled transcription/translation system based on E.coli translation machinery. PUREflex® is NOT AN EXTRACT. PUREflex® is a **RECONSTITUTED SYSTEM** comprising highly purified E. coli ribosomes, highly purified recombinant proteins, and other highly purified factors required for transcription, translation, aminoacylation, and energy regeneration. As such, PUREflex kits provide previously unthinkable reaction controllability compared to cell extract-based systems and a well defined mix of molecular components from which to purify synthesized protein.

PUREflex was introduced by Gene Frontier in 2011 as a commercial adaptation of the pioneering PURE system technology (protein using recombinant elements) developed by Professor Takuya Ueda at the University of Tokyo. PURE technology consists of factors for transcription, translation, aminoacylation, and energy regeneration. All protein factors and ribosomes are assembled with substrates including amino acids, NTPs, and tRNAs in buffer (see figure).

Translation factors include initiation factors IF1/IF2/IF3, elongation factors EF-Tu/EF-Ts/EF-G, release factors RF1/RF2/RF3, ribosome recycling factor (RRF), 20 aminoacyl-tRNA synthetases (ARS), and methionyl-tRNA transformylase. Thus PURE system has no unknown proteins and its composition can be adjusted freely. Further, the defined and modular chemistry of PURE and PUREflex® systems offers extreme flexibility of the contents in the final reaction mix.



More info on CosmoBio website: <https://www.cosmobioussa.com/pages/pureflex-protein-synthesis>

#### Which PUREflex Kit Is Right For Me?

**PUREflex® 2.0** - Choose 2.0 when protein yield is your primary goal and disulfide bonding is not relevant.

**PUREflex® 2.1** - 2.1 kits are based on 2.0 reaction components but are not premixed with reducing agent. 2.1 kits include separate vials of cysteine, DTT, and reduced glutathione allowing control of the redox environment. Choose 2.1 kits primarily for target proteins with disulfide bonds.

**PUREflex® 1.0** - 1.0 kits produce less protein than 2.X kits, but the complete contents of 1.0 kits is disclosed. Choose 1.0 when complete information on PUREflex reaction components takes precedence over protein yield.

CO-GFK-PF001-025-EX 250 ul  
PUREflex 1.0 143,65 € HT

CO-GFK-PF201-025-EX 250 ul  
PUREflex 2.0 208,25 € HT

CO-GFK-PF213-025-EX 250 ul  
PUREflex 2.1 208,25 € HT

## S U M M A R Y

**PROTEIN REAGENTS**  
**CHEMICALS**  
**NUCLEIC ACID EXTRACTION AND**  
**PURIFICATION KITS**

p.1  
p.2-3  
p.4

**PCR PREMIX SELECTION KIT**  
**COMPETENT CELLS**  
**DNA LADDERS**  
**PROTEIN LADDERS**

p.4  
p.5  
p.6  
p.6

## Acryl/Bis Solution

	Ratio	19/1		29/1		37.5/1	
	Size	500 ml	1L	500 ml	1L	500 ml	1L
40% Solution	Purity : 99.4%	EU0061-B 29,60 €	EU0061-C 47,20 €	EU0063-B 29,60 €	EU0063-C 47,20 €	EU0062-B 29,60 €	EU0062-C 47,20 €
	Purity : 99.9%	EU0076-B 36,00 €	EU0076-C 68,85 €	EU0077-B 36,00 €	EU0077-C 61,60 €	EU0078-B 36,00 €	EU0078-C 61,60 €
30% Solution	Purity : 99.4%	EU0072-B 37,80 €	EU0072-C 57,60 €	EU0073-B 29,60 €	EU0073-C 47,20 €	EU0074-B 29,60 €	EU0074-C 47,20 €
	Purity : 99.9%	EU0086-B 36,00 €	EU0086-C 61,60 €	EU0087-B 36,00 €	EU0087-C 61,60 €	EU0088-B 36,00 €	EU0088-C 61,60 €

## Agar

### Bacteriological Grade

1330-C	250 g	34,85 € HT
1330-D	500 g	55,25 € HT
1330	1 kg	93,50 € HT

### Agarose DNA Grade

Gelling Temperature : 34-37°C

Specially recommended for separation of megabase DNA (up to 40 Kb) by Pulsed Field Gel Electrophoresis (PFGE) and DNA ≥ 1Kb by conventional electrophoresis. DNase/RNase activity: none detected.

D5-C	100 g	48,30 € HT
D5-E	500 g	220,15 € HT
D5	1 kg	418,50 € HT

### AGAROSE for routine Analysis

DNA fragments from 23 kb to 100 bp may be separated through conventional electrophoresis

No detectable DNase or RNase activity

✓ EEO < 0.120	✓ Gel strength 1%	> 1200 g/cm <sup>2</sup>
LE-8200-A	100 g	39,95 € HT
LE-8200-B	500 g	166,50 € HT
LE-8200	1 kg	288,00 € HT

### Ampicillin, Sodium Salt

EU0400-B	5 g	10,50 € HT
EU0400-C	10 g	17,50 € HT
EU0400-D	25 g	39,90 € HT

### Aprotinin

Can be added to cell culture to prevent decomposition of protein hormones such as insulin

A162-A	5 mg	17,00 € HT
A162-B	10 mg	27,20 € HT
A162-E	25 mg	60,35 € HT
A162-C	50 mg	115,20 € HT

### Bovine Serum Albumin, pH 7

Protease Free

04-100-812-C	100 g	68,25 € HT
04-100-812-E	500 g	294,10 € HT
04-100-812	1 kg	524,70 € HT

### CHAPS

1083-B	5 g	30,10 € HT
1083-C	10 g	56,00 € HT
1083	25 g	138,75 € HT

## D-Luciferin, potassium salt

12505-AAT	25 mg	76,00 € HT
12506-AAT	100 mg	96,00 € HT
12507-AAT	1 g	243,20 € HT

## DMSO

### ✓ ACS

UD8050-05-A	100 ml	11,25 € HT
UD8050-05-C	500 ml	33,15 € HT

### ✓ Molecular Biology Grade

UD8050-A	100 ml	27,30 € HT
UD8050-B	250 ml	60,90 € HT

## DNase I

Deoxyribonuclease I from bovine pancreas (3000U/mg)		
1307	20 000U	22,40 € HT
1307-B	100 000U	95,20 € HT

## DTT

Molecular Biology Grade. Purity >99%

EU0006-B	5 g	22,95 € HT
EU0006-D	25 g	94,50 € HT
EU0006	100 g	310,50 € HT

## EDTA

Ethylene diamine tetracetic acid disodium salt, 2H<sub>2</sub>O  
Purity >99%

### ✓ Powder

EU0007-B	500 g	23,20 € HT
EU0007	1 kg	40,50 € HT

### ✓ Solution 0.5M, pH~8.0

EU0084-A	100 ml	11,90 € HT
EU0084-B	500 ml	20,40 € HT
EU0084	1 l	29,75 € HT

## Gentamycin Sulfate

EU0410-A	1 g	7,20 € HT
EU0410-B	5 g	15,30 € HT
EU0410-C	25 g	62,10 € HT

## Glucose Anhydrous

Alpha-D-(+)-Glucose UG3050	1 kg	22,95 € HT
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## Glycerol

### ✓ High Purity > 99%

EU3550	1 l	31,50 € HT
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### ✓ High Purity > 99%, Molecular Biology Grade

EU3555	1 l	40,50 € HT
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## Glycine Ultra pure

Purity >99%		
26-128-6405-C	1 kg	31,50 € HT

## IPTG

### Dioxane Free

EU0008-A	1 g	7,80 € HT
EU0008-B	5 g	31,80 € HT
EU0008-C	25 g	117,00 € HT

## LB Broth

### ✓ LB Lennox

Tryptone 10g/L; Yeast Extract 5g/L; NaCl 5g/L  
AE-0102 500 g 47,60 € HT

### ✓ LB Miller

Tryptone 10g/L; Yeast Extract 5g/L; NaCl 10g/L  
AE-0103 500 g 45,90 € HT

### ✓ LB Lennox Agar

Tryptone 10g ; yeast extract 5.0g ; NaCl 5g ; Agar 15g  
EU0031 500 g 55,25 € HT

## PBS

### ✓ Solution 10X

Contains : NaCl,  $\text{KH}_2\text{PO}_4$ ,  $\text{Na}_2\text{HPO}_4$   
Prepared with water 18 megaohm, filtered 0.2 $\mu\text{m}$ , pH : 7,4  
ET330 1L 9,80 € HT  
ET330-A 5L 28,00 € HT

### ✓ Tablets :

1 tablet or 1 pouch dissolved in its corresponding solution  
volume of deionized water yields: 0.14 M sodium chloride;  
0.0027 M potassium chloride; 0.01 M phosphate buffer pH  
7.4 at 25° C.

EU1-2051-100 (100ml/Tab) 100Tabs 39,95 € HT  
EU1-2052-100 (200ml/tab) 100 Tabs 67,15 € HT

## Proteinase K

High concentration  
EU0091-A 25 mg 8,00 € HT  
EU0091-B 100 mg 24,50 € HT  
EU0091-C 500 mg 104,25 € HT  
EU0091 1 g 186,75 € HT

## SDS

prepared with SDS Ultra pure (99.9%), 18 megaohm water  
filtered 0.2 $\mu\text{m}$

### ✓ Solution 20%

EU0660-B 500 ml 34,85 € HT  
EU0660 1 l 62,05 € HT

### ✓ Solution 10%

EU0760-A 500 ml 21,60 € HT  
EU0760 1 l 36,55 € HT

## Sodium Chloride

Purity min.: 99.5%  
1112-A 1kg 12,00 € HT

## Sodium Hydroxide

Microprills  
2020 1kg 23,20 € HT

## SSC 20X

Prepared with ultra pure reagents, 0.2 $\mu\text{m}$  filtered  
EU0300-A 1 L 9,00 € HT  
EU0300-B 2,5 L 14,70 € HT  
EU0300-C 5 L 23,80 € HT

## Sucrose

D(+)-Saccharose  
Purity min.: 99,5%  
200-301-A 500 g 9,00 € HT  
200-301-B 1 kg 11,20 € HT  
200-301 5 kg 45,60 € HT

## TAE

### ✓ TAE 10X

contains : Tris 0.4M, Acetate 0,2M and EDTA 10mM.  
Filtered 0.2 $\mu\text{m}$  and prepared with 18,2 megaohm water  
EU0202-A 1 L 8,25 € HT  
EU0202 5 L 26,40 € HT

### ✓ TAE 25X

contains : Tris 1M, Acetate 0,5M and EDTA 25mM.  
Filtered 0.2 $\mu\text{m}$  and prepared with 18,2 megaohm water  
EU0200-A 1 L 15,20 € HT  
EU0200 5 L 67,15 € HT

### ✓ TAE 50X

contains : Tris 2M, Acetate 1M and EDTA 50mM.  
Filtered 0.2 $\mu\text{m}$  and prepared with 18,2 megaohm water  
EU0201-A 1 L 20,25 € HT  
EU0201 5 L 89,25 € HT

## TBE 10X

composition : Tris 0.89M, Boric acid 0.89M, EDTA 20mM  
ET020-A 1 L 12,00 € HT  
ET020-B 2.5 L 25,50 € HT  
ET020-C 5 L 44,20 € HT

## TBS 10X

contains: Tris 0.25M, NaCl 1.37M and KCl 26.8mM  
ET220 1 L 9,10 € HT  
ET220-B 5 L 28,00 € HT

## TG 10x

contains 0,25M Tris and 1,92M Glycine  
EU0550-B 1 L 9,10 € HT  
EU0550 5 L 36,00 € HT

## TG-SDS 10x

contains 0,25M Tris; 1,92M Glycine and 1% SDS  
EU0510-A 1 L 11,20 € HT  
EU0510 5 L 40,80 € HT

## TRIS HCl

Purity > 99% Appearance: White, crystalline powder  
EU0011-C 500 g 68,00 € HT  
EU0011 1 kg 126,65 € HT

## Urea

Purity  $\geq$ 99,6 %, cryst.  
EU0014-A 500 g 11,20 € HT  
EU0014-B 1 kg 17,85 € HT

## X-Gal

Molecular Biology  
EU0012-C 500 mg 28,00 € HT  
EU0012-D 1 g 50,15 € HT  
EU0012 5 g 204,00 € HT

## MASTERPURE™ COMPLETE DNA AND RNA PURIFICATION KIT

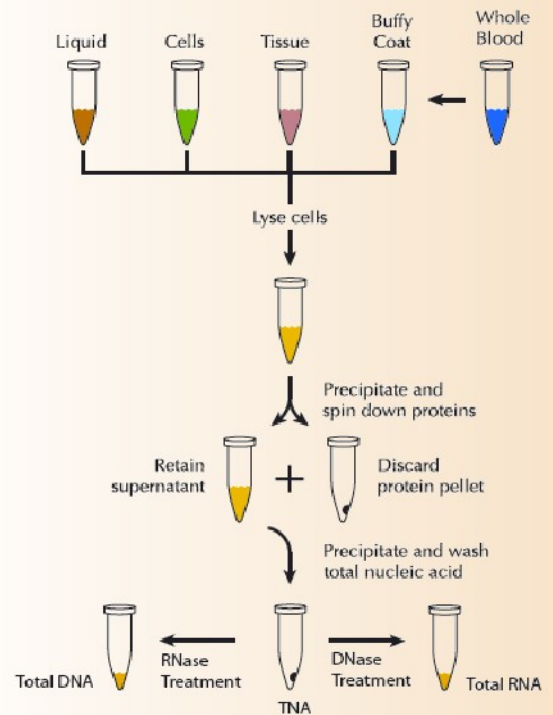
**Quickly purify high yields of high-molecular-weight genomic DNA, total cellular RNA or Total Nucleic Acid (TNA) with one kit**

- ✓ Fast: Purify Total Nucleic Acid (TNA), DNA or RNA in 30 – 60 minutes
  - ✓ Safe: Does not use hazardous phenol, chloroform or guanidine
  - ✓ High Purity: A260/A280 ratios consistently between 1.8 and 2.0
  - ✓ High Yields: Improves yields by avoiding the use of columns which often reduce nucleic acid yields
  - ✓ Versatile: Purify TNA, genomic DNA, total RNA, FFPE RNA, or both genomic DNA and total RNA from a sample
- Total RNA Recovery: Purify both large and small (e.g., miRNA) RNA for RNA-Seq or qRT-PCR
- Proven: Hundreds of citations for purification of DNA and RNA from dozens of sample types for use in many applications

### Applications

- Purification of genomic DNA or total RNA for many applications, including:
- ✓ Library preparation for next generation sequencing (NGS) of genomic DNA and RNA
  - ✓ DNA methylation studies using Illumina® Infinium® HumanMethylation BeadChips
  - ✓ Genomic DNA and cDNA cloning
  - ✓ qPCR and qRT-PCR
  - ✓ Microarray analyses (CGH, gene expression profiling, etc)

<b>LU-MC85200</b>	<b>200 DNA or 100 RNA purifications</b>	<b>514,40 €HT*</b>
<b>LU-MC89010</b>	<b>10 DNA or 5 RNA purifications</b>	<b>106,40 €HT*</b>



Overview of the MasterPure Complete Kit protocol

## QUICKEXTRACT™ DNA EXTRACTION SOLUTION

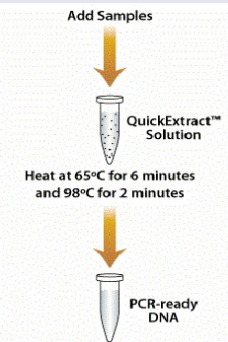


Figure 1. Procedure for obtaining PCR-ready DNA using QuickExtract™ DNA Extraction Solution.

**Simple, rapid extraction of PCR-ready DNA for screening and genotyping type applications**

- ✓ Fast: 8 minute extraction protocol for most sample types
- ✓ Simple: No centrifugation steps or spin columns used to help increase yields
- ✓ Automation-friendly: Simple protocol integrated easily into automated workflows
- ✓ Safe: Uses only non-toxic reagents

Recommended for rapid, easy sample prep for T7E1 CRISPR mutation detection assay

The QuickExtract™ DNA Extraction Solution can be used to rapidly and efficiently extract PCR-ready genomic DNA from almost any sample type using a simple, one-tube protocol that takes only 3-8 minutes (Fig. 1), depending on the sample. QuickExtract Solution has been used to extract DNA from samples such as hair follicles, quill-end cells of feathers, tissue-culture cells, buccal cells, zebrafish organs and scales, and mouse tail snips. The extracted DNA is suitable for PCR analyses, such as genomic, transgenic, or viral DNA screening in animals, or for genetic or environmental research and screening in humans and other organisms.

<b>LU-QE09050</b>	<b>50ml</b>	<b>396,80 €HT*</b>
<b>LU-QE0905T</b>	<b>5ml</b>	<b>79,20 €HT*</b>

## FAILSAFE™ PCR PREMIX SELECTION KIT

The PCR PreMix Selection Kit is ideal for optimising PCR conditions and performance.

The kit is multiplex PCR compatible, can amplify even the most difficult high-GC templates, and targets up to 20 kb in length.

Optimisation is done by adding a template, primers, and FailSafe PCR Enzyme Mix to each of the 12 FailSafe 2x PreMixes, followed by amplification.

Results are analysed by agarose gel electrophoresis, which can indicate your best template/primer pair combination based on the 12 individual FailSafe 2X PreMixes.

The FailSafe PreMix Selection Kit is sufficient for 48 reactions (four optimization runs with each of the 12 total 2X PreMixes).

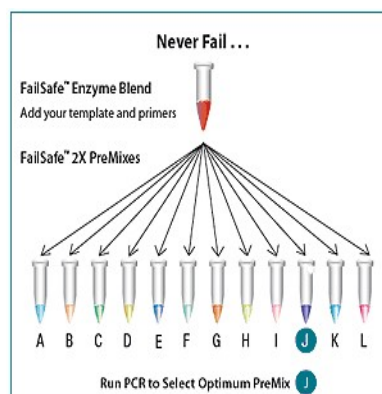
### Applications

- ✓ End point PCR applications
- ✓ Cloning
- ✓ Sequencing
- ✓ Gene Expression
- ✓ Mutation Analysis

<b>LU-FS99060</b>	<b>60 Units Enzyme Mix and 12 PreMixes</b>	<b>142,40 €HT*</b>
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### How It Works

- 1- Start with the FailSafe PCR PreMix Selection Kit to optimise end-point PCR conditions.
- 2- Analyse and determine which FailSafe PCR 2x PreMixes produce high-fidelity results, based on the template/primer pair combination.
- 3- Purchase the post optimization FailSafe PCR System, which includes the Enzyme Mix plus your choice of 1, 2, or 8 out of the 12 PCR 2x PreMixes, OR, purchase the FailSafe PreMix and Enzyme components individually; and achieve reliable and consistent high-fidelity PCR results.



Amplification of an 80%-85% GC-rich region of the human fragile X gene using FailSafe™ PCR System. A-L: amplification products using the 12 FailSafe PCR PreMixes. Lane M, molecular weight marker. Optimal amplification: FailSafe PCR PreMix J. The size of the expected amplicon is indicated by an arrow.

## E. CLONI® COMPETENT CELLS

### High Transformation Efficiency for General Cloning Needs

- Direct replacements for standard cloning strains (e.g., DH5a™, DH10B™, TOP10, XL1-Blue, etc.)
- Optimized genetics for high yields: phage T1 resistant, endonuclease and recombination minus, blue/white screening-capable.
- Available in a range of high transformation efficiencies (1 x 10<sup>6</sup> to 4 x 10<sup>10</sup> cfu/ug).

### E. cloni® 10G and 10GF' Electrocompetent Cells

#### Choice of strain:

- ✓ *E. cloni 10G Competent Cells*: Library construction, cloning, subcloning, and plasmid isolation with or without blue/white screening.
- ✓ *E. cloni 10GF' Competent Cells*: Contain the F' plasmid for infection with M13 to produce ssDNA.

#### Choice of efficiency:

- ✓ *E. cloni 10G SUPREME Electrocompetent Cells* > 4 x 10<sup>10</sup> cfu/μg pUC DNA

SUPREME Cells have the highest transformation efficiency available from any supplier. Choose SUPREME Cells for the most demanding cloning situations, such as construction of large, high complexity libraries or cloning difficult targets, which require the greatest number of transformants possible.

- ✓ *E. cloni 10G & 10GF' ELITE Electrocompetent Cells* > 2 x 10<sup>10</sup> cfu/μg pUC DNA

ELITE Cells have twice the transformation efficiency compared to "ultra high efficiency" cells from other suppliers. ELITE Cells provide large numbers of transformants from hard-to-clone fragments or limited DNA.

- ✓ *E. cloni 10G CLASSIC Electrocompetent Cells* > 5 x 10<sup>9</sup> cfu/μg pUC DNA
- CLASSIC Cells are high efficiency cells. These cells are the most economical choice for standard cloning and library construction. 10G CLASSIC Cells are available in larger package sizes for convenient use in higher volume cloning applications.

E. cloni Cell Lines	Transformation Efficiency (cfu/μg pUC DNA)	Cloning Methylated DNA	BAC, Cosmid Cloning	Blue/White Screening
10G SUPREME Electrocompetent	≥ 4 x 10 <sup>10</sup>	YES	YES	YES without IPTG induction
10G ELITE Electrocompetent	≥ 2 x 10 <sup>10</sup>	YES	NO	YES without IPTG induction
10G CLASSIC Electrocompetent	≥ 5 x 10 <sup>9</sup>	YES	NO	YES without IPTG induction
10GF' ELITE Electrocompetent	≥ 2 x 10 <sup>10</sup>	YES	NO	YES IPTG induction required

	Cat. N°	Size	Price €HT
<b>E. cloni 10GF' ELITE</b> > 2 x 10 <sup>10</sup> cfu/ug	LU-60061-1	12 rxns (DUOs)	<b>202,40*</b>
	LU-60061-2	24 rxns (DUOs)	<b>349,60*</b>
<b>E. cloni 10G CLASSIC</b> > 5 x 10 <sup>9</sup> cfu/ug	LU-60117-1	24 rxns (SixPacks)	<b>236,00*</b>
	LU-60117-2	48 rxns (SixPacks)	<b>421,60*</b>
<b>E. cloni 10G ELITE</b> > 2 x 10 <sup>10</sup> cfu/ug	LU-60051-1	12 rxns (SOLOs)	<b>228,80*</b>
	LU-60052-1	12 rxns (DUOs)	<b>200,80*</b>
	LU-60052-2	24 rxns (DUOs)	<b>344,80*</b>
	LU-60052-3	24 rxns (SixPacks)	<b>265,60*</b>
	LU-60052-4	48 rxns (SixPacks)	<b>440,80*</b>
<b>E. cloni 10G SUPREME</b> > 4 x 10 <sup>10</sup> cfu/ug	LU-60081-1	12 rxns (SOLOs)	<b>356,00*</b>
	LU-60080-1	12 rxns (DUOs)	<b>312,80*</b>
	LU-60080-2	24 rxns (DUOs)	<b>574,40*</b>

### E. cloni® 5-alpha Chemically Competent Cells

>1 x 10<sup>8</sup> cfu/μg DNA

Useful for routine cloning, subcloning, and plasmid isolation with or without blue/white screening.

	Cat. N°	Size	Price €HT
<b>E. cloni 5-alpha Chemically Competent Cells</b> >1 x 10 <sup>8</sup> cfu/μg DNA	LU-60602-1	12 rxns (DUOs)	<b>133,60*</b>
	LU-60602-2	24 rxns (DUOs)	<b>228,80*</b>

### E. cloni® 10G Chemically Competent Cells

#### Choice of efficiency:

- ✓ *E. cloni 10G Chemically Competent Cells* (> 1 x 10<sup>9</sup> cfu/μg pUC DNA) (> 1 x 10<sup>9</sup> in 96-well plates).

Highly efficient competent cells for routine cloning applications. Available in one transformation per tube (SOLOs) or two transformations per tube (DUOs). Also available in 96-well plates (which can be divided into 24-well segments) for higher throughput.

- ✓ *E. cloni 10G Chemically Competent Cells, Subcloning Grade* (> 1 x 10<sup>6</sup> cfu/μg pUC DNA).

The best value available anywhere for simple cloning and plasmid propagation.

	Cat. N°	Size	Price €HT
<b>E. cloni 10G</b> > 1 x 10 <sup>9</sup> cfu/ug	LU-60107-1	12 rxns (DUOs)	<b>148,80*</b>
	LU-60107-2	24 rxns (DUOs)	<b>260,80*</b>
	LU-60106-1	12 rxns (SOLOs)	<b>171,20*</b>
<b>E. cloni 10G (Subcloning Grade)</b> > 1 x 10 <sup>6</sup> cfu/ug	LU-60108-1	48 rxns	<b>85,60*</b>
<b>E. cloni 10G in 96-well plate</b> > 1 x 10 <sup>8</sup> cfu/ug	LU-60096-4	4 plates (SOLOs)	<b>1916,00*</b>

### TransforMax™ EC100™ Electrocompetent and Chemically Competent E. coli

#### General cloning strain

- ✓ Clone large inserts and transform large plasmids - up to at least 145 kb plasmid DNA.
- ✓ Achieve high efficiencies with convenient chemically competent format: >5 x 10<sup>9</sup> cfu/μg pUC19 DNA.
- ✓ Ideal for cloning, subcloning and plasmid preparation due to endA and recA mutations.

*TransforMax EC100 Electrocompetent E. coli*: Transformation efficiency of >1 x 10<sup>10</sup> cfu/μg of pUC19.

*TransforMax EC100 Chemically Competent E. coli*: Transformation efficiency of >5 x 10<sup>8</sup> cfu/μg of pUC19.

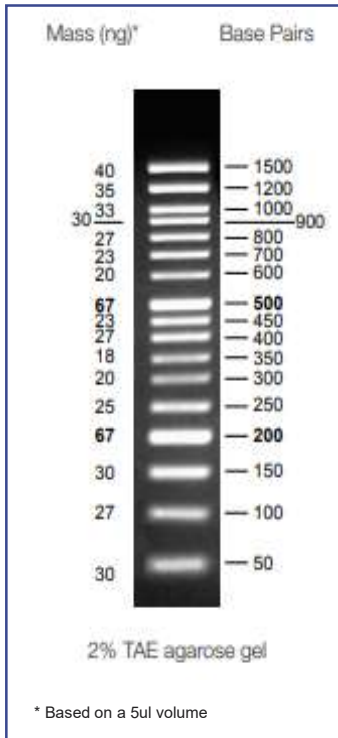
	Cat. N°	Size	Price €HT
<b>TransforMax™ EC100™ Chemically Competent E. coli</b>	LU-CC02810	10 x 50ul (10 rxns)	<b>146,40*</b>
<b>TransforMax™ EC100™ Electrocompetent E. coli</b>	LU-EC10010	10 x 100ul (20 rxns)	<b>320,00*</b>

DNA	TransforMax EC100 Chemically Competent E. coli	TransforMax EC100 Electrocompetent E. coli	Transformations using 50 μL of competent cells and either supercoiled DNAs of the indicated sizes or a 1-μL aliquot from a standard 10-μL ligation reaction. Results (in cfu/μg of DNA) are the average transformation efficiencies obtained from several trials.
pUC19	1.4 x 10 <sup>8</sup>	1.4 x 10 <sup>10</sup>	
8.1-kb Clone	1.3 x 10 <sup>7</sup>	Not tested	
13.1-kb Clone	4.3 x 10 <sup>6</sup>	1.3 x 10 <sup>9</sup>	
23.1-kb Clone	9.2 x 10 <sup>5</sup>	3.0 x 10 <sup>8</sup>	
145-kb BAC Clone	Not tested	7 x 10 <sup>7</sup>	
13.1-kb clone directly from a ligation reaction	2.2 x 10 <sup>5</sup>	2.1 x 10 <sup>7</sup>	

## DNA LADDERS

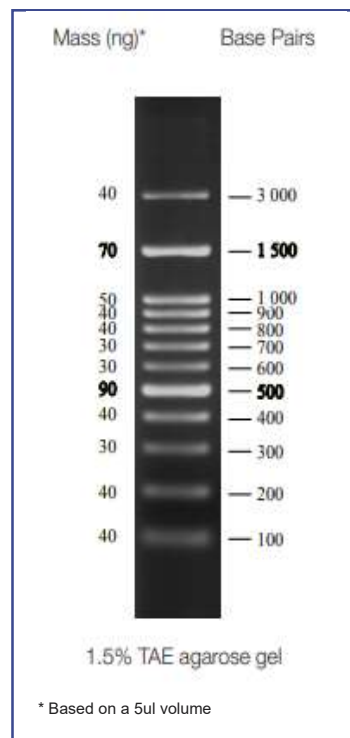
### 100bp Opti-DNA Marker

AM-G016 500 µl/100 loads  
39,20€ HT



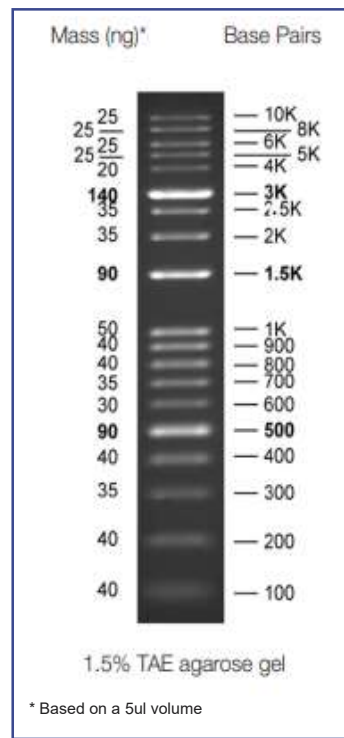
### 100bp Plus Opti-DNA Marker

AM-G193 500 µl/100 loads  
39,20€ HT



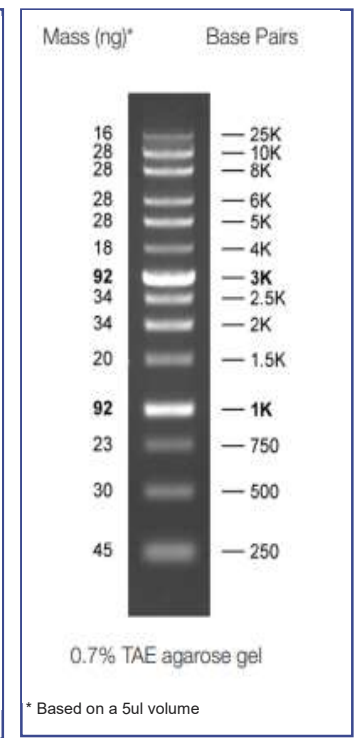
### 1kb Opti-DNA Marker

AM-G106 500 µl/100 loads  
39,20€ HT



### 1kb Plus Opti-DNA Marker

AM-G248 500 µl/100 loads  
39,20€ HT



## PROTEIN LADDERS

(1) **Opti-Protein XL Marker/Ladder** consists of 12 proteins that resolve into sharp, tight bands in the range of 10-245 kDa. This unique protein ladder allows you to monitor protein separation during electrophoresis, estimate molecular weight of the protein of interest, and evaluate western blot transfer efficiency. Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band at 25kDa and 75 kDa respectively) when separated on SDS-PAGE (Tris-glycine buffer).

(2) With enhanced performance for high molecular weight proteins, **Opti-Protein Ultra Marker** consists of 10 pre-stained proteins that resolve into sharp, tight bands covering a wide range of molecular weights from 6.5 to 270 kDa. This protein ladder allows you to monitor protein separation during electrophoresis, estimate molecular weight of the protein of interest, and evaluate western blot transfer efficiency. 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) when separated on gel.

### Opti-Protein Marker

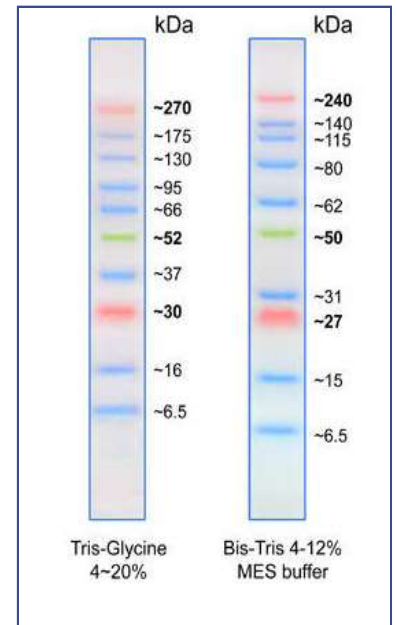
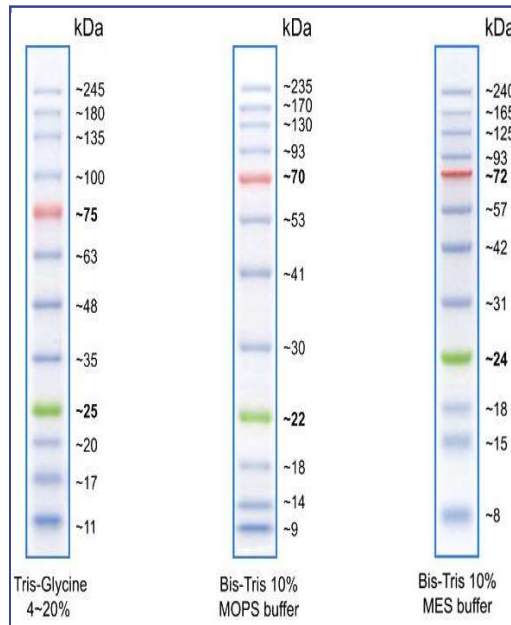
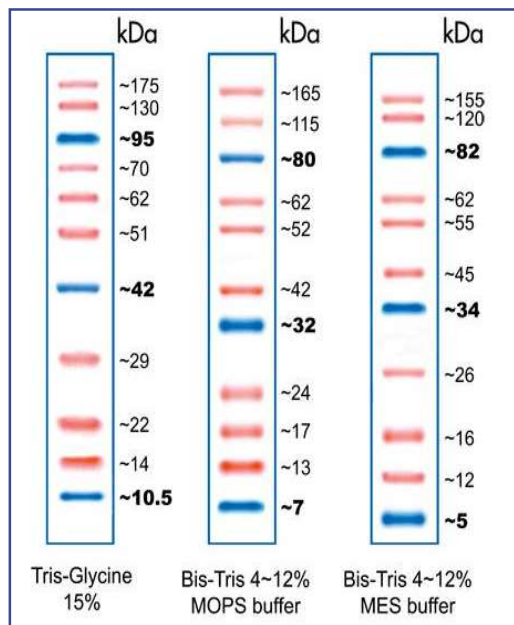
AM-G252 500 µl/100 loads 92,00 € HT

### Opti-Protein XL Marker (1)

AM-G266 500 µl/100 loads 108,80 € HT

### Protein Marker Ultra Marker (2)

AM-G623 500 µl/100 loads  
74,40 € HT



**EUROMEDEX**

24, rue des Tuileries BP 684 - 67460 SOUFFELWEYERSHEIM

Tél : 03 88 18 07 22 Fax : 03 88 18 07 25

e.mail : research@euromedex.com - Internet : www.euromedex.com