Life Science Products Catalog **2023**

ECO→TECH
Biotechnology

About Us

Our aim is to produce novel products, to add up novel and enhanced properties to the currently available molecular biology, genetics and biotechnology applications and to contribute advancing the state of the art to enable our customers to achieve their goals.

Mission

We provide scientists with high quality, eco-friendly, time saving and easy-to-use products and kits to help them make the world a healthier and cleaner place and to help the humanity to leave a peaceful world for the next generations.
We provide an innovative background for scientists to accelerate their research and to maintain the integrity of their results.

Vision

We are committed to being one of the leading companies in the field to supply our customers from all around the world with the high-quality raw materials and with ecologic solutions.
We strive to be a company that is always at the cutting edge of the current knowledge and technology and that is always with the desire to collaborate with renowned scientists all over the world to make a difference.

Table of Contents

ECO→TECH Biotechnology

BİOKİM TEKNİK SİSTEMLER

Product	Size	Cat #
EndoGenius Inducer Assay	*50 rxn*	*EGI50*
EndoGenius Inducer Assay	*100 rxn*	*EGI100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: Important implications for human health have been made from what has been learned from overexpression studies, and these implications have changed our understanding of the causes and treatment of diseases. Since gene transfer vectors generally have a limited insert size, therapeutic gene entry is often limited to the intracellular delivery of a splice variant of a gene. However, for the proper regulation of cellular processes, it can be extremely important that all splice variants of a gene expressed in the cell of interest are expressed at the correct rate. Alternative splice is an important phenomenon in nature and at least one-third of human genes are thought to be subject to alternative s plice processing (1).

Induction of endogenous gene expression using specific EndoGenius Inducer Assay results in expression of all splice variants that is expressed in that specific cell or tissue. The importance of correct stoichiometric expression of all splice variants of a gene has been demonstrated for angiogenesis in a mouse model. It has been shown that induction of endogenous gene expression of VEGF-A results in the formation of more mature vessels compared to exogenous introduction of the gene encoding only one splice variant of VEGF-A (2).

EndoGenius Inducer Assay allows both overexpression of even the largest gene in the genome (Figure 1) and overexpression of all cell-specific expressed variants.

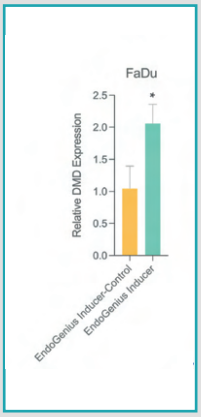

Figure 1. Relative expression of DMD, one of the largest genes in the human genome, when induced with specific EndoGenius Inducer Assay in vitro.

Utilization of EndoGenius Inducer Assay allows specific gene overexpression (Figure 2A) with minimal off-target effects (Figure 2B). It is quite easy to carry out an overexpression assay to see functional effects of overexpressing an endogenous gene. For example, overexpression of a specific oncogene results in increase in viability (Figure 2C).

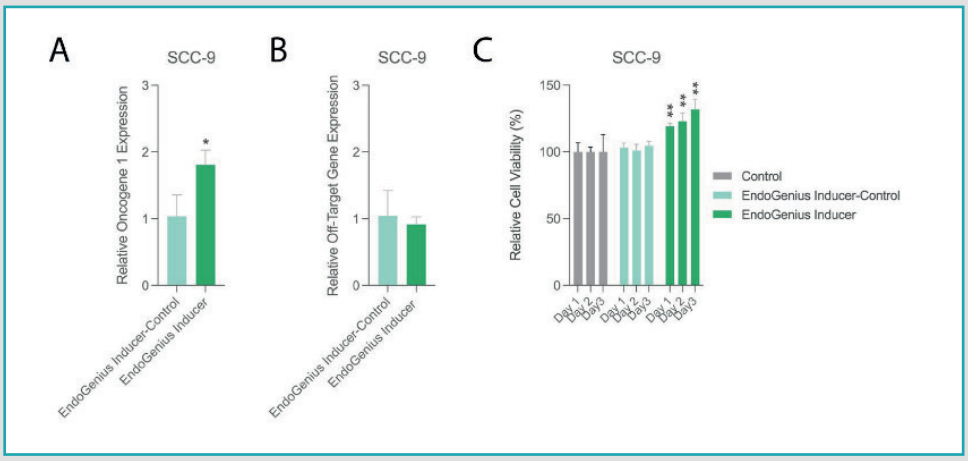

Figure 2. A. EndoGenius Inducer Assay specifically induce significantly overexpression of Oncogene 1, B. with no alteration in other genes. C. Overexpression of Oncogene 1 results in significant increase in cell viability.

On the other hand, overexpression of Tumor Suppressor Gene 1 using EndoGenius Inducer Assay (Figure 3A), with no significant change in the expression of another tumor suppressor gene from the same gene family (Figure 3B), results in reduced cell viability (Figure 3C).

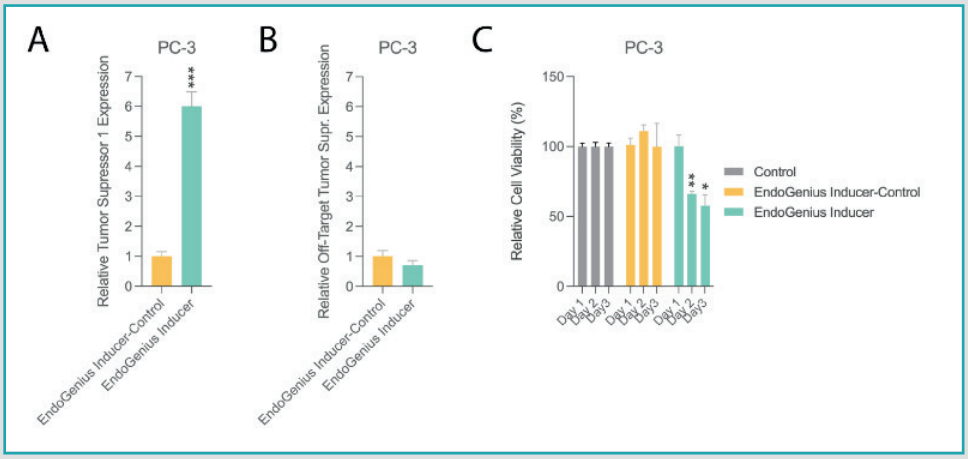

Figure 3. A. EndoGenius Inducer specifically induce overexpression of Tumor Suppressor Gene 1, B. with no alteration in another tumor suppressor gene from the same gene family. C. Overexpression of Tumor Suppressor 1 results in significant decrease in cell viability.

It is also possible with EndoGenius Inducer Assay to target different genes of a gene family simultaneously. Therefore, the expression of multiple genes can also be easily altered using a single tool.

Features:

- **Fast:** Hands on time less than 30 minutes.
- **Smart:** No plasmids, no recombinant proteins, no need for user design.
- **Effective:** Alter gene expression at transcription level with high efficiency.

Storage Conditions: Store Active Mix and Control Mix at -20°C. Avoid repeated freeze and thaw. Store other components at 4-8°C.
Shipping Conditions: Ship at ambient temperature.

References

1. Mironov AA, Fickett JW, Gelfand MS. Frequent alternative splicing of human genes. Genome Res 1999;9:1288-93
2. Rebar EJ, Huang Y, Hickey R, Nath AK, Meoli D, Nath S, et al. Induction of angiogenesis in a mouse model using engineered transcription factors. Nat Med 2002;8:1427-32

Product	Size	Cat #
EndoGenius Suppressor Assay	*50 rxn*	*EGS50*
EndoGenius Suppressor Assay	*100 rxn*	*EGS100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: Drug discovery and development of therapeutic approaches relies heavily on the association of genotypes with phenotypes. One of the best ways to carry out this strategy is to disrupt gene function and then analyze changes in the phenotype. Using RNAi and CRISPR biological tools, researchers can study gene function by suppressing gene expression at the translational or genetic level, respectively (1). However, both systems have certain limitations.

Mammalian systems have evolved a potent antiviral immune response to long double-stranded RNA. This includes the stimulation of interferons and inflammatory cytokines that dramatically alter gene expression and affect a variety of important cellular processes. In particular, siRNAs longer than 23 base pairs trigger strong immune responses that lead to off-target effects and affect functional outputs (2). Certain siRNA sequence motifs, structures, delivery vehicles, and impurities in siRNA preparations can also stimulate immune responses (3). Since siRNA-mediated effects rely on endogenous RNAi mechanisms, overloading the cell with siRNAs will occupy RNAi effector proteins that microRNAs need for gene expression regulation. One study reported that siRNA treatments can lead to significant off-target effects in cells, reporting upregulation of endogenous microRNA targets in a dose-dependent manner corresponding to the amount of siRNA used (4). In a genome-scale RNAi screening study, it was revealed that different siRNAs targeting the same gene produced different phenotypes in cells (5).

Directly regulating the expression of endogenous genes by targeting DNA offers several advantages compared with oligodeoxynucleotides (ODNs) or RNA interference (RNAi) approaches to down-regulate gene expression (6). For downregulation of endogenous genes directly at the DNA level, efficiency is likely to increase as only two copies of DNA per cell need to be targeted compared to the thousands of mRNAs that are usually required to be targeted in RNAi approaches. CRISPRi system also necessitates utilization of large plasmids, technical experience and long optimization processes.

Suppression of endogenous gene expression using specific EndoGenius Suppressor Assay results in effective inhibition of all splice variants that is expressed in that specific cell or tissue.
Utilization of EndoGenius Suppressor Assay allows inhibition of specific gene expression (Figure 1A) with minimal off-target effects (Figure 1B). It is quite easy to carry out an assay to see functional effects of suppressing an endogenous gene. For example, suppression of a specific oncogene results in significant decrease in viability (Figure 1C).

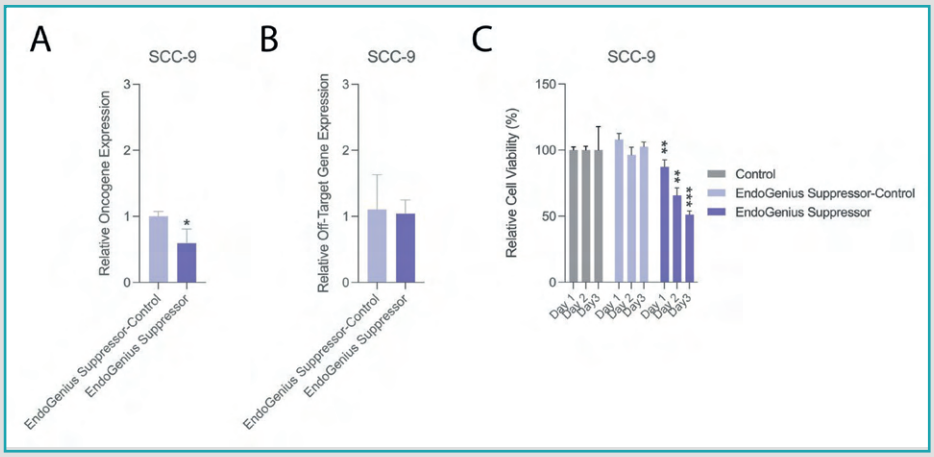

Figure 1. A. EndoGenius Suppressor Assay specifically induce significant suppression of Oncogene 1, B. with no alteration in other genes. C. Suppression of Oncogene 1 results in significant decrease in cell viability.

On the other hand, suppression of Tumor Suppressor Gene 1 using EndoGenius Suppressor Assay (Figure 2A), with no significant change in the expression of another tumor suppressor gene (Figure 2B), results in increased cell viability (Figure 2C).

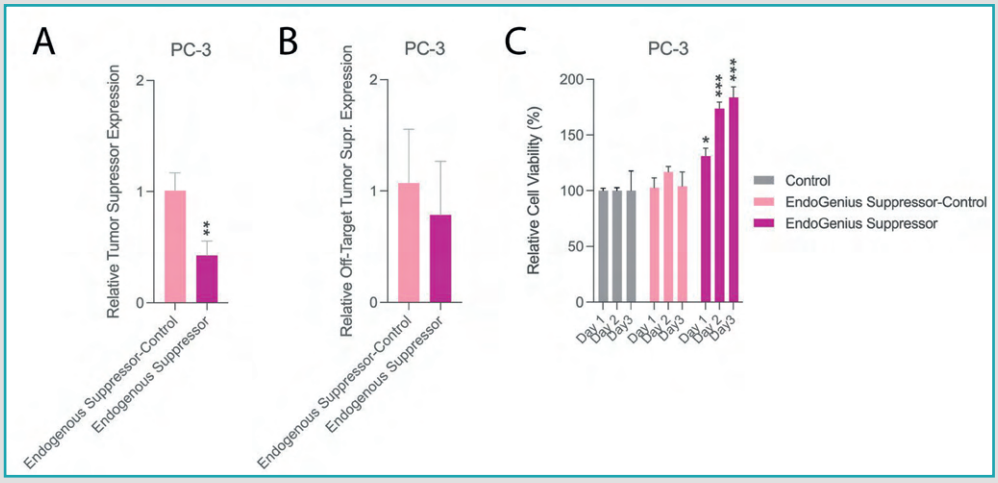

Figure 2. A. EndoGenius Suppressor specifically suppressed the Tumor Suppressor Gene 1, B. with no alteration in another tumor suppressor. C. Suppression of Tumor Suppressor 1 results in significant increase in cell viability.

It is also possible with EndoGenius Suppressor Assay to target different genes of a gene family simultaneously. Therefore, the expression of multiple genes can also be easily altered using a single tool.

Features:

• **Fast:** Hands on time less than 30 minutes.
• **Smart:** No plasmids, no recombinant proteins, no need for user design.
• **Effective:** Alter gene expression at transcription level with high efficiency.

Storage Conditions: Store Active Mix and Control Mix at -20°C. Avoid repeated freeze and thaw.
Store other components at 4-8°C.
Shipping Conditions: Ship at ambient temperature.

References

1. Unniyampurath U, Pilankatta R, Krishnan MN. RNA Interference in the Age of CRISPR: Will CRISPR Interfere with RNAi? Int J Mol Sci 2016;17:291
2. Reynolds A, Anderson EM, Vermeulen A, Fedorov Y, Robinson K, Leake D, et al. Induction of the interferon response by siRNA is cell type- and duplex length-dependent. RNA 2006;12:988-93
3. https://www.sitoolsbiotech.com/pdf/siRNAofftargeteffects1-170720(1).pdf. siTools.
4. Khan AA, Betel D, Miller ML, Sander C, Leslie CS, Marks DS. Transfection of small RNAs globally perturbs gene regulation by endogenous microRNAs. Nat Biotechnol 2009;27:549-55
5. Marine S, Bahl A, Ferrer M, Buehler E. Common seed analysis to identify off-target effects in siRNA screens. J Biomol Screen 2012;17:370-8
6. Jackson AL, Bartz SR, Schelter J, Kobayashi SV, Burchard J, Mao M, et al. Expression profiling reveals off-target gene regulation by RNAi. Nat Biotechnol 2003;21:635-7

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DNA Fragment Purification

Product	Size	Cat #
EcoPURE PCR/Gel Purification Kit	*50 rxn*	*E5003*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoPURE PCR/Gel Purification Kit combines 2 kits in 1. It is designed for effective and fast purification of polymerase chain reaction (PCR) products. Using this kit, primer dimers, free nucleotides in the reaction, salts, and Taq polymerase can be easily removed. This kit is also suitable for purification of nucleic acids from reactions including restriction digestion, alkaline phosphatase treatment, or kinase reactions.

Features: Each isolation procedure is suitable for purification of 50 µl PCR product. Each isolation procedure in the following protocol is described from 100 mg gel containing DNA products.

- **Fast:** Purify DNA fragments in 15 minutes or less.
- **Smart:** Combines 2 EcoSpin kits in 1
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** Purifies a wide range of DNA fragments in 100–10,000 bp in length.

Storage Conditions: Store the kit between 15-25°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin PCR Purification Kit	*50 rxn*	*EcoPP-50x*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin PCR Purification Kit is designed for effective and fast purification of polymerase chain reaction (PCR) products. Using this kit, primer dimers, free nucleotides in the reaction, salts, and Taq polymerase can be easily removed. This kit is also suitable for purification of nucleic acids from reactions including restriction digestion, alkaline phosphatase treatment, or kinase reactions.

Features: Each isolation procedure is suitable for purification of 50 µl PCR product.

- **Fast:** Purify DNA fragments in 15 minutes or less.
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** Purifies a wide range of DNA fragments in 100–10,000 bp in length.

Storage Conditions: Store the kit between 15-25°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin Gel Purification Kit	*50 rxn*	*EcoGP-50x*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin Gel Purification Kit is designed for effective and fast purification of polymerase chain reaction (PCR) products. Using this kit, primer dimers, free nucleotides in the reaction, salts, and Taq polymerase can be easily and effectively removed.

Features: Each isolation procedure in the following protocol is described from 100 mg gel containing DNA products.

- **Fast:** Purify DNA fragments from gel in 15 minutes or less.
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** Purifies a wide range of DNA fragments in 100–10,000 bp in length.

Storage Conditions: Store the kit between 15-25°C.

Shipping Conditions: Ship at ambient temperature.

Genomic DNA Purification

Product	Size	Cat #
EcoPURE Genomic DNA Kit	*50 rxn*	*E1075*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoPURE Genomic DNA Kit is designed as a simple and convenient purification of high-quality genomic DNA from various samples including whole blood, cultured cells, frozen or fresh tissues, rodent tails, yeast, gram-positive or gram-negative bacteria, insects, dried blood spots, and buccal swaps. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, or time-consuming alcohol precipitation. The standard protocol lasts less than 25 minutes and purified DNA can be used directly in PCR, qPCR, sequencing and enzymatic reactions.

Features: Suitable for purification of high-quality genomic DNA from various samples including whole blood, cultured cells, frozen or fresh tissues, rodent tails, yeast, gram-positive or gram-negative bacteria, insects, dried blood spots, and buccal swaps.

- **Fast:** Purify Genomic DNA in 25 minutes or less.
- **Smart:** Combines All EcoSpin Genomic DNA kits in 1
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure DNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store Proteinase K at -20°C. Store RNase A at -20°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoPURE BYF Genomic DNA Kit	*50 rxn*	*E1085*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoPURE Bacterial/Yeast/Fungi Genomic DNA Kit is designed for a simple and convenient purification of high-quality genomic DNA from Gram (-) negative and Gram (+) positive bacterial cells, yeast, and fungi. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, or time-consuming alcohol precipitation. The standard protocol lasts less than 25 minutes and purified DNA can be used directly in PCR, qPCR, sequencing and enzymatic reactions.

Features: Suitable for purification of high-quality genomic DNA from various samples including gram-positive or gram-negative bacteria, yeast, and fungi.

- **Fast:** Purify Genomic DNA in 25 minutes or less.
- **Smart:** Combines 3 EcoSpin kits in 1
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure DNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store Proteinase K at -20°C. Store RNase A at -20°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin Blood Genomic DNA Kit	*50 rxn*	*EcoBGD-50x*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin Blood Genomic DNA Kit is designed as a simple and convenient purification of high-quality genomic DNA from whole blood. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, or time-consuming alcohol precipitation. The standard protocol lasts less than 25 minutes and purified DNA can be used directly in PCR, qPCR, Southern blotting and enzymatic reactions.

Features: Each isolation procedure is suitable for isolation of genomic DNA from 200 µl whole blood sample.

- **Fast:** Purify Genomic DNA in 25 minutes or less.
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure DNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store Proteinase K at -20°C. Store RNase A at -20°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin Cell Genomic DNA Kit	*50 rxn*	*E1055*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin Cell Genomic DNA Kit is designed as a simple and convenient purification of high-quality genomic DNA from cultured cells. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, or time-consuming alcohol precipitation. The standard protocol lasts less than 25 minutes and purified DNA can be used directly in PCR, qPCR, sequencing and enzymatic reactions.

Features: Each isolation procedure is suitable for isolation of genomic DNA from 10^4 to 10^6 cells.

- **Fast:** Purify Genomic DNA in 25 minutes or less.
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure DNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store Proteinase K at -20°C. Store RNase A at -20°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin Bacterial Genomic DNA Kit	*50 rxn*	*E1050*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin Bacterial Genomic DNA Kit is designed as a simple and convenient purification of high-quality genomic DNA from Gram (-) negative and Gram (+) positive bacterial cells. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, or time-consuming alcohol precipitation. The standard protocol lasts less than 25 minutes and purified DNA can be used directly in PCR, qPCR, sequencing and enzymatic reactions.

Features: Each isolation procedure is suitable for isolation of genomic DNA from 1 mL of overnight bacterial culture.

- **Fast:** Purify Genomic DNA in 25 minutes or less.
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure DNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store Proteinase K at -20°C. Store RNase A at -20°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin Yeast Genomic DNA Kitt	*50 rxn*	*E1060*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin Yeast Genomic DNA Kit is designed as a simple and convenient purification of high-quality genomic DNA from yeast cells. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, or time-consuming alcohol precipitation. The standard protocol lasts less than 25 minutes and purified DNA can be used directly in PCR, qPCR, sequencing and enzymatic reactions.

Features: Each isolation procedure is suitable for isolation of genomic DNA from up to 10^8 yeast cells.

- **Fast:** Purify Genomic DNA in 25 minutes or less.
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure DNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store Proteinase K at -20°C. Store RNase A at -20°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin Tissue Genomic DNA Kit	*50 rxn*	*E1070*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin Tissue Genomic DNA Kit is designed as a simple and convenient purification of high-quality genomic DNA from fresh or frozen tissue samples and rodent tails. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, or time-consuming alcohol precipitation. The standard protocol lasts less than 25 minutes and purified DNA can be used directly in PCR, qPCR, sequencing and enzymatic reactions.

Features: Each isolation procedure is suitable for isolation of genomic DNA from up to 25 mg fresh or frozen tissue, 0.6–1.2 cm mouse tail, or 0.6 cm rat tail.

- **Fast:** Purify Genomic DNA in 25 minutes or less after tissue lysis.
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure DNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store Proteinase K at -20°C. Store RNase A at -20°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin Insect Genomic DNA Kit	*50 rxn*	*E1080*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin Insect Genomic DNA Kit is designed as a simple and convenient purification of high-quality genomic DNA from 30-50 mg insects. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, or time-consuming alcohol precipitation. The standard protocol lasts less than 25 minutes and purified DNA can be used directly in PCR, qPCR, sequencing and enzymatic reactions.

Features: Each isolation procedure is suitable for isolation of genomic DNA from 30-50 mg insect.

- **Fast:** Purify Genomic DNA in 25 minutes or less.
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure DNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store Proteinase K at -20°C. Store RNase A at -20°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin FFPE Genomic DNA Kit	*50 rxn*	*E3095*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin FFPE Genomic DNA Kit is designed as a simple and convenient purification of genomic DNA from formalin-fixed, paraffin-embedded (FFPE) tissue materials. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, or time-consuming alcohol precipitation. The standard protocol lasts approximately 5 hours at room temperature and purified DNA can be effectively used in routine downstream applications.

Features: Each isolation procedure is suitable for isolation of genomic DNA from from up to 5 freshly cut sections of up to 20 µm thick from the interior of an FFPE tissue block.

- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure DNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store Proteinase K at -20°C. Store RNase A at -20°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Potassium Acetate, 3M pH:5.5	*100 ml*	*PA100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Potassium Acetate, 3M pH:5.5 Ready-to-use Solution is prepared using molecular biology grade potassium acetate in ultrapure water. ClearBand Potassium Acetate, 3M pH:5.5 Ready-to-use Solution is 0.22 µm filter sterilized and suitable for purification and precipitation of nucleic acids. It can be used for also precipitating dodecyl sulfate (DS) and DS-bound proteins allowing the removal of proteins from DNA.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 10x Red Blood Cell Lysis Buffer	100 ml	RBCLB-10x

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 10x Red Blood Cell Lysis Buffer is prepared using molecular biology grade ammonium chloride in ultrapure water. It is formulated for effective and quick lysis of red blood cells with little to no effect on leukocytes. ClearBand 10x Red Blood Cell Lysis Buffer should be diluted in double-distilled water prior to use.

Storage Conditions: Store between 2-8°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 1x Red Blood Cell Lysis Buffer	100 ml	RBCLB-100
ClearBand 1x Red Blood Cell Lysis Buffer	500 ml	RBCLB-500

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 1x Red Blood Cell Lysis Buffer is prepared using molecular biology grade ammonium chloride in ultrapure water. It is formulated for effective and quick lysis of red blood cells with little to no effect on leukocytes.

Storage Conditions: Store between 2-8°C.

Shipping Conditions: Ship at ambient temperature.

Plasmid DNA Isolation

Product	Size	Cat #
EcoSpin Plasmid Isolation Kit	*50 rxn*	*EcoPI-50x*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin Plasmid Isolation Kit is designed as a simple, convenient, and cost-effective purification of high-quality plasmid DNA from recombinant *E. coli* cultures. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for time-consuming alcohol precipitation method. The standard protocol lasts less than 25 minutes and yields up to 20 µg of plasmid DNA. The kit can be effectively used for purification of any size plasmids and cosmids. The relative plasmid yield and optimal culture size depend on the plasmid copy number and medium used for the bacterial culture.

Features: Each isolation procedure is suitable for isolation of plasmid DNA from 1-5 ml of *E. coli* culture with an optical density 1.5-5 at 600 nm.

- **Fast:** Purify Genomic DNA in 25 minutes or less.
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure DNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store RNase A at -20°C.

Shipping Conditions: Ship at ambient temperature.

RNA Isolation

Product	Size	Cat #
EcoPURE Total RNA Kit	*50 rxn*	*E2075*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoPURE Total RNA Kit is designed as a simple and convenient purification of high-quality total RNA including small RNAs (e.g. microRNAs) from whole blood, cultured cells, and frozen or fresh tissues. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, β-mercaptoethanol, or time-consuming alcohol precipitation. The standard protocol lasts less than 10 minutes at room temperature and purified RNA can be effectively used in routine downstream applications including cDNA synthesis, northern blotting, differential display, primer extension, and mRNA selection.

Features: Suitable for purification of high-quality Total RNA from various samples including whole blood, cultured cells, and frozen or fresh tissues.

- **Fast:** Purify RNA in 10 minutes or less.
- **Smart:** Combines 3 kits in 1
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure RNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand TRUEzol Reagent	*100 ml*	*TR100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand TRUEzol Reagent is a ready-to-use reagent composed of phenol and a mixture of other components for the isolation of high-quality total RNA from various biological materials including animal and plant tissues, cells and bacteria.
Biological materials are homogenized or lysed in ClearBand TRUEzol Reagent and then separated into three phases: a clear upper aqueous phase with the RNA, a pink lower organic phase and an interphase, containing DNA and protein. RNA is purified by precipitation with isopropyl alcohol. And then washed to remove impurities.
Purified RNA can be effectively used in routine downstream applications including cDNA synthesis, northern blotting, differential display, primer extension, and mRNA selection.

Storage Conditions: Store between 2°C and 8°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand RNAintact, RNA Stabilization Solution	*100 ml*	*R100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand RNAintact, RNA stabilization solution is prepared using molecular biology grade reagents in ultrapure water. ClearBand RNAintact penetrates tissues and cells rapidly and allows stabilization and protection of cellular RNA in unfrozen fresh specimens at room temperature.
ClearBand RNAintact does not necessitate immediate processing of samples for RNA isolation or freezing of samples in liquid nitrogen for further processing.
The integrity of the RNA content of the cells and tissue pieces that are immediately immersed in ClearBand RNAintact is maintained. Samples immersed within ClearBand RNAintact can be stored up to 1 day at 37°C, 1 week at 25°C, and 1 month at 4°C without a significant loss in RNA integrity. Tissues can also be stored at - 20°C or -80°C for long-term.
ClearBand RNAintact is compatible with various downstream applications like total RNA isolation using either TRIzol reagent or spin column-based kits.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature

Product	Size	Cat #
EcoSpin Blood Total RNA Kit	*50 rxn*	*E2090*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin Blood Total RNA Kit is designed as a simple and convenient purification of high-quality total RNA including small RNAs (e.g. microRNAs) from whole blood up to 8 ml. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, β-mercaptoethanol, or time-consuming alcohol precipitation. The standard protocol lasts less than 40 minutes at room temperature and purified RNA can be effectively used in routine downstream applications including cDNA synthesis, northern blotting, differential display, primer extension, and mRNA selection.

Features: Suitable for isolation of total RNA from up to 8 ml of noncoagulating fresh whole blood collected using EDTA as the anti-coagulant.

- **Fast:** Purify RNA in 40 minutes or less.
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure RNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store EcoSpin RBCL Buffer at 2-8°C upon receipt

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin Liquid Sample Total RNA Kit	*50 rxn*	*E4075*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin Liquid Sample Total RNA Kit is designed as a simple and convenient purification of high-quality total RNA from 250 µl liquid sample such as saliva, serum, plasma, urine etc. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, β-mercaptoethanol, or time-consuming alcohol precipitation. The standard protocol lasts less than 40 minutes at room temperature and purified RNA can be effectively used in routine downstream applications including cDNA synthesis, northern blotting, differential display, primer extension, and mRNA selection

Features: Suitable for isolation of total RNA from 250 µl liquid sample such as saliva, serum, plasma, urine etc.

- **Fast:** Purify RNA less in 40 minutes or less.
- **Effective:** High Pure RNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store EcoSpin LS Lysis/Binding Buffer at 2-8°C upon receipt.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin Plant Total RNA Kit	*50 rxn*	*E2096*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin Plant Total RNA Kit is designed as a simple and convenient purification of highquality total RNA from up to 300 mg of plant material. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, β-mercaptoethanol, or time-consuming alcohol precipitation. The standard protocol lasts less than 40 minutes at room temperature and purified RNA can be effectively used in routine downstream applications including cDNA synthesis, northern blotting, differential display, primer extension, and mRNA Selection.

Features: Suitable for isolation of total RNA from up to 300 mg of plant material.

- **Fast:** Purify RNA in 40 minutes or less.
- **Effective:** High Pure RNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store EcoSpin Lysis/Binding Buffer at 4-8°C upon receipt.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
EcoSpin FFPE Total RNA Kit	*50 rxn*	*E2095*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoSpin FFPE Total RNA Kit is designed as a simple and convenient purification of total RNA from formalin-fixed, paraffin-embedded (FFPE) tissue materials. This kit utilizes chaotropic ions and silica-based membrane technology, eliminating the need for expensive resins, hazardous phenol-chloroform extractions, β-mercaptoethanol, or time-consuming alcohol precipitation. The standard protocol lasts less than 40 minutes at room temperature and purified RNA can be effectively used in routine downstream applications.

Features: Suitable for isolation of total RNA from up to 5 freshly cut sections of up to 20 µm thick from the interior of an FFPE tissue block.

- **Fast:** Purify RNA in 40 minutes or less.
- **Convenient:** No phenol extractions or ethanol precipitations.
- **Effective:** High Pure RNA ready for further applications.

Storage Conditions: Store the kit between 15-25°C. Store Proteinase K at -20°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 10x Red Blood Cell Lysis Buffer	*100 ml*	*RBCLB-10x*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 10x Red Blood Cell Lysis Buffer is prepared using molecular biology grade ammonium chloride in ultrapure water. It is formulated for effective and quick lysis of red blood cells with little to no effect on leukocytes. ClearBand 10x Red Blood Cell Lysis Buffer should be diluted in double-distilled water prior to use.

Storage Conditions: Store between 2-8°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 1x Red Blood Cell Lysis Buffer	*100 ml*	*RBCLB-100*
ClearBand 1x Red Blood Cell Lysis Buffer	*500 ml*	*RBCLB-500*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 1x Red Blood Cell Lysis Buffer is prepared using molecular biology grade ammonium chloride in ultrapure water. It is formulated for effective and quick lysis of red blood cells with little to no effect on leukocytes.

Storage Conditions: Store between 2-8°C.

Shipping Conditions: Ship at ambient temperature.

Western Blot Analysis

Product	Size	Cat #
ClearBand RIPA Lysis Buffer	*100 ml*	*RIPA-100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand RIPA Lysis Buffer is formulated for efficient and complete cell lysis and solubilization of proteins. ClearBand RIPA Lysis Buffer enables protein extraction from cytoplasmic, membrane and nuclear proteins and is compatible with several applications, including reporter assays, protein assays, immunoassays and protein purification.

Features: Suitable for protein extraction from a wide variety of cells and tissues.

• **Versatile:** Enables extraction of cytoplasmic, membrane and nuclear proteins.
• Compatible with a wide range of individual protease inhibitors and cocktails.

Storage Conditions: Stable for 1 year at 2-8°C.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 10x RIPA Lysis Buffer	*100 ml*	*RIPA10x*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 10x RIPA Lysis Buffer is formulated for efficient and complete cell lysis and solubilization of proteins. ClearBand 10x RIPA Lysis Buffer enables protein extraction from cytoplasmic, membrane and nuclear proteins and is compatible with several applications including western blotting and immunoprecipitation.

Features: Suitable for protein extraction from a wide variety of cells and tissues.

• **Versatile:** Enables extraction of cytoplasmic, membrane and nuclear proteins.
• Compatible with a wide range of individual protease inhibitors and cocktails

Storage Conditions: Stable for at least 6 months at room temperature.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Acrylamide/Bisacrylamide 29:1 30%	*100 ml*	*AB291100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Acrylamide/Bisacrylamide, 29:1 30% Ready-to-use Solution is prepared using molecular biology grade acrylamide and bisacrylamide in ultrapure water. ClearBand Acrylamide/Bisacrylamide, 29:1 %30 Ready-to-use Solution is 0.22 µm filter sterilized and suitable for electrophoresis of both proteins and nucleic acids. It can be used for preparation of stacking and resolving gels during sodium dodecyl sulfate polyacrylamide gel electrophoresis.

Features: Ready-to-use Solution

Storage Conditions: Store between 2-8°C.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Acrylamide/Bisacrylamide 19:1 40%	*100 ml*	*AB191100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Acrylamide/Bisacrylamide, 19:1 40% Ready-to-use Solution is prepared using molecular biology grade acrylamide and bisacrylamide in ultrapure water. ClearBand Acrylamide/Bisacrylamide, 19:1 40% Ready-to-use Solution is 0.22 µm filter sterilized and suitable for electrophoresis of both proteins and nucleic acids. It can be used for preparation of stacking and resolving gels during sodium dodecyl sulfate polyacrylamide gel electrophoresis.

Features: Ready-to-use Solution

Storage Condition: Store between 2-8°C.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Acrylamide/Bisacrylamide 37.5:1 30%	*100 ml*	*AB3751-100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Acrylamide/Bisacrylamide, 37.5:1 30% Ready-to-use Solution is prepared using molecular biology grade acrylamide and bisacrylamide in ultrapure water. ClearBand Acrylamide/Bisacrylamide, 37.5:1 30% Ready-to-use Solution is 0.22 µm filter sterilized and suitable for electrophoresis of both proteins and nucleic acids. It can be used for preparation of stacking and resolving gels during sodium dodecyl sulfate polyacrylamide gel electrophoresis.

Features: Ready-to-use Solution

Storage Conditions: Store between 2-8°C.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Laemmli Sample Buffer (2x)	*15 ml*	*LSB-2x*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Laemmli Sample Buffer 2x is a premixed buffer for protein sample preparation prior to loading on SDS-PAGE. It is supplied as 2x concentrate. 50 µl β-mercaptoethanol should be added per 950 µl ClearBand Laemmli Sample Buffer 2x prior to use.

Features: Pre-mixed buffer for protein sample preparation.

Easy-to-use: ClearBand 2x Laemmli Sample Buffer is easily loaded into the wells thanks to its unique content.

Storage Conditions: Stable for 2 years at room temperature.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Laemmli Sample Buffer (4x)	*10 ml*	*LSB-4x*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Laemmli Sample Buffer 4x is a premixed buffer for protein sample preparation prior to loading on SDS-PAGE. It is supplied as 4x concentrate. 100 µl β-mercaptoethanol should be added per 900 µl ClearBand Laemmli Sample Buffer 4x prior to use.

Features: Pre-mixed buffer for protein sample preparation.

Easy-to-use: ClearBand 4x Laemmli Sample Buffer is easily loaded into the wells thanks to its unique content.

Storage Conditions: Stable for 2 years at room temperature.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Laemmli Sample Buffer (10x)	*2x1 ml*	*LSB-10x*

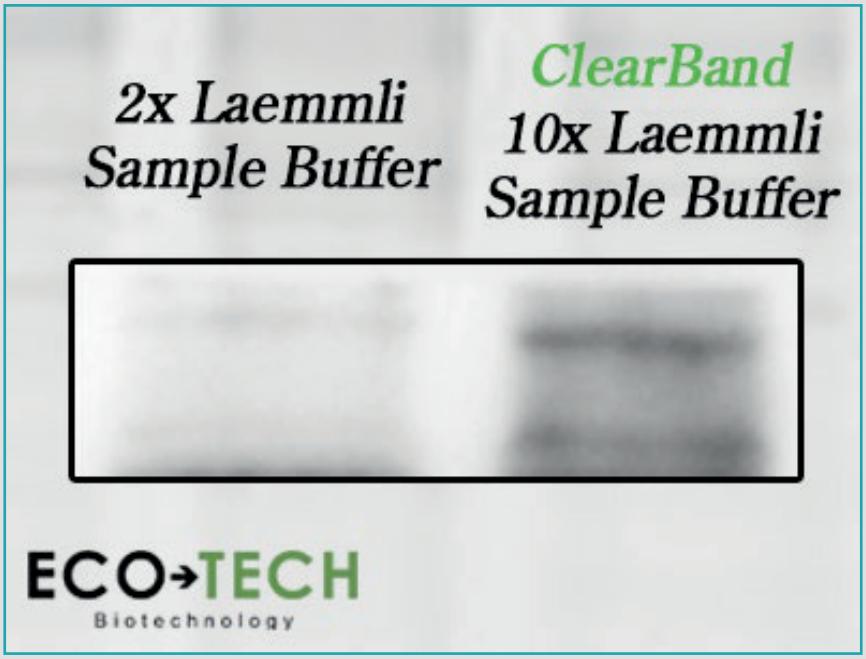
For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Laemmli Sample Buffer 10x is a premixed buffer for protein sample preparation prior to loading on SDS-PAGE. It is supplied as 10x concentrate. 20 µl β-mercaptoethanol should be added per 80 µl ClearBand Laemmli Sample Buffer 10x prior to use.

Features: Pre-mixed buffer for protein sample preparation.

Denser bands: It allows for thicker bands especially when working with small number of cells, lysates with low concentration, and proteins with low expression.
Ease of use: ClearBand 10x Laemmli Sample Buffer is easily loaded into the wells thanks to its unique content.
Quick: No loss of time with freeze and thaw, since it is stored at room temperature.

Storage Conditions: Stable for 1 year at room temperature.
Shipping Conditions: Ship at ambient temperature.



Ecotech Biotechnology is the only company that offers Laemmli Sample Buffer at 10x concentration.

Product	Size	Cat #
ClearBand Lyse & Load	*5x1 ml*	*LL5ML*

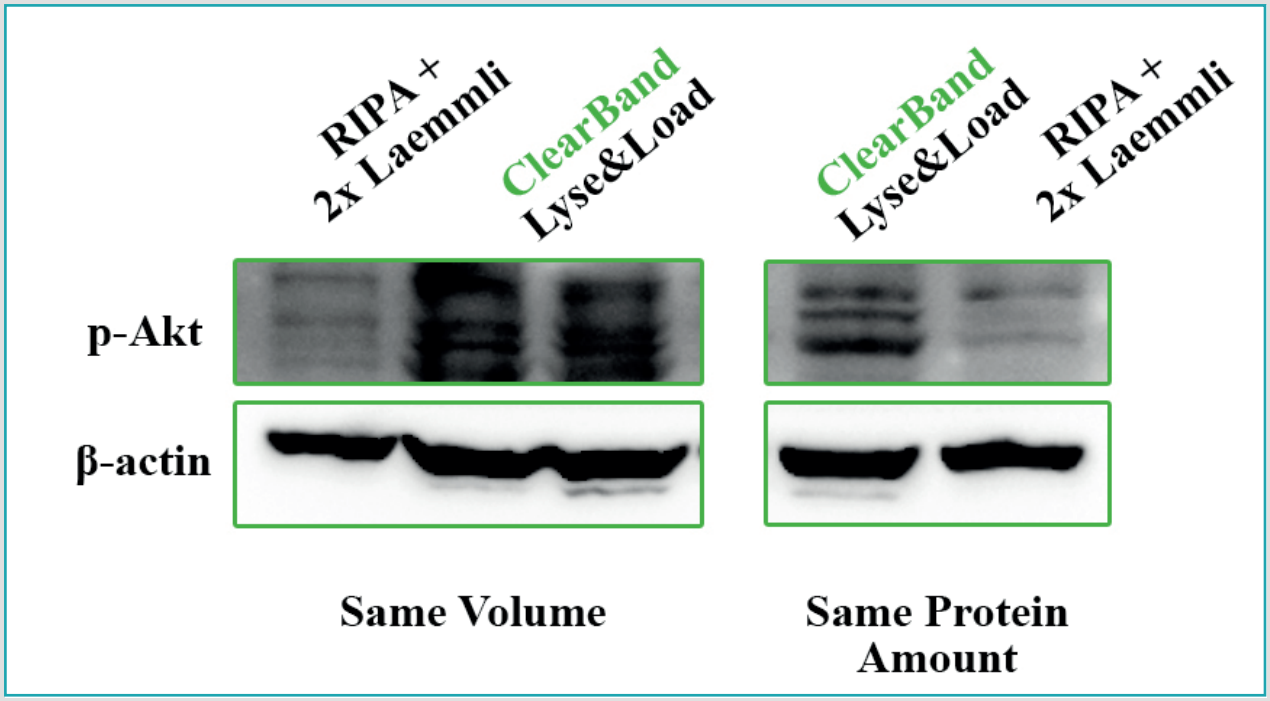
For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Lyse&Load is a premixed buffer, which combines RIPA Lysis Buffer and Laemmli Sample Buffer in one solution for protein sample preparation prior to loading on SDS-PAGE. 25 µl B- mercaptoethanol should be added per 1 ml ClearBand Lyse&Load prior to use.

Features: High quality western blotting solution.

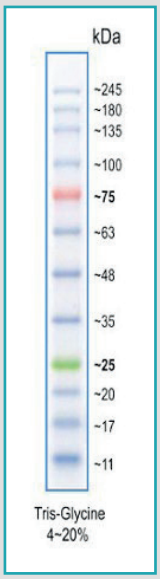
Denser bands: It allows for thicker bands especially when working with small number of cells, lysates with low concentration, and proteins with low expression.
Ease of use: ClearBand 10x Lyse&Load is easily loaded into the wells thanks to its unique content.
Quick: No loss of time with freeze and thaw, since it is stored at room temperature.

Storage Conditions: Store at room temperature.
Shipping Conditions: Ship at ambient temperature.



Product	Size	Cat #
ClearBand Prestained Protein Marker	*250 µl, 50 loads*	*PM12*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.



General Information: ClearBand Prestained Protein Marker is a protein standard containing 12 prestained proteins covering a wide molecular weight range from 10 to 245 kDa.

This protein marker is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes and for approximating the size of proteins. The protein marker is supplied in gel loading buffer and is ready to use.

Easy-to-use: 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) when separated on SDS-PAGE (Tris-glycine buffer).

Storage Conditions: Store at 4°C for 3 months or -20°C for 24 months.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand WellTracker, 100x	*1 ml*	*WT1*
ClearBand WellTracker, 100x	*5x1 ml*	*WT5*

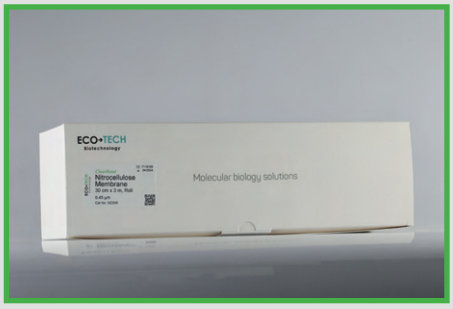
For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand WellTracker is specifically formulated to easily see the wells of the SDS-PAGE gels when loading samples. It is supplied as 100x concentrate and added in stacking gel to better visualize the wells of the gel. The special dye within ClearBand WellTracker migrates with bromophenol blue and does not interfere with the samples when they run in the gel. It is totally inert and does not affect the transfer efficiency of proteins from gel to the membrane.

Storage Conditions: Stable for 2 years at room temperature.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Nitrocellulose Membrane 30cm x 3m, Roll	*0.22 µm*	*NC022*
ClearBand Nitrocellulose Membrane 30cm x 3m, Roll	*0.45 µm*	*NC045*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.



General Information: ClearBand Nitrocellulose Membrane is dense 100% nitrocellulose combining the advantages of high protein binding capacity with low background and high membrane stability, which ensures easy handling and excellent signal-to-noise results.
ClearBand Nitrocellulose Membrane has excellent binding properties for western blotting, dot-blot assays, and other protein or nucleic acid methods. They are used for a wide range of molecular weight proteins and nucleic acids >300 bp.

Storage Conditions: Store at room temperature.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand PVDF Membrane 30cm x 3m, Roll	*0.22 µm*	*PVDF022*
ClearBand PVDF Membrane 30cm x 3m, Roll	*0.45 µm*	*PVDF045*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Polyvinylidene Fluoride (PVDF) membranes display good mechanical strength, strong protein retention, low background, extensive solvent compatibility, and excellent coloring ability. Exceptional strength, high binding capacity and chemical compatibility of ClearBand PVDF membrane make it ideal for use in Western blots, immunoblotting, and solid phase assays and plaque lifts.
ClearBand PVDF membranes are highly hydrophobic and must be pre-wetted with methanol prior to submersion in transfer buffer. It has exceptional tensile strength, preventing it from cracking, tearing, breaking or curling.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand ECL Western Blotting Substrate	*50 ml*	*ECL50*
ClearBand ECL Western Blotting Substrate	*250 ml*	*ECL250*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand ECL Western Blotting Substrate is specifically formulated for highly sensitive, non-radioactive, enhanced luminol-based chemiluminescent substrate for easy detection of horseradish peroxidase (HRP) on immunoblots. ClearBand ECL Western Blotting Substrate offers excellent signal to noise ratio and clear background. ECL50 is sufficient for 400 cm2 of membrane contents and ECL250 is sufficient for 2000 cm^2 of membrane contents.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Re-Blot Stripping Solution	*500 ml*	*RBS500*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Re-Blot Stripping Solution is a uniquely formulated, ready-to-use reagent prepared for safely and effectively removing primary and secondary antibodies from nitrocellulose and PVDF membranes to allow use the same membrane for different antibodies. It helps scientists save their time and budgets without damaging the target antigen during stripping.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Ponceau S	*500 ml*	*PS05*
ClearBand Ponceau S	*1000 ml*	*PS10*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Ponceau S is a Ready-to-use solution for the rapid (5 min) and reversible detection of protein bands on nitrocellulose, PVDF, cellulose acetate and membranes. ClearBand Ponceau S rapidly stains proteins on membranes pink or light red.
This staining solution is generally used to confirm protein transfer in Western blotting applications before probing with select antibodies.
ClearBand Ponceau S does not have a deleterious effect on the blotted polypeptides and can be completely removed from the membranes by repeated wash.

Features: Ready-to-use

Storage Conditions: Store at room temperature. This product is stable for at least 12 months.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Bradford Reagent	*500 ml*	*BR05*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Bradford Reagent is formulated for a ready-to-use total protein analysis reagent used for quick measurement of total protein concentration. ClearBand Bradford Reagent contains Coomassie Brilliant Blue G-250, which associates with basic and aromatic amino acids, thus leading to a shift in absorbance during protein determination. ClearBand Bradford Reagent offer an easy-to-use assay in either test tube or microplate format: mix protein sample with the assay reagent, incubate shortly and measure the absorbance at 595nm. Color response with Coomassie is non-linear with increasing protein concentration, therefore, a standard curve must be created with each assay.

Storage Conditions: Stable for 1 year at 4°C.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 10% SDS	100 ml	S100
ClearBand 10% SDS	500 ml	S500

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 10% SDS (10% w/v) is sodium dodecyl sulfate prepared in 18 MΩ water. SDS is a detergent that is used for denaturation of proteins especially in polyacrylamide gel electrophoresis applications.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 20% SDS	100 ml	S100/20
ClearBand 20% SDS	500 ml	S500/20

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 20% SDS (20% w/v) is sodium dodecyl sulfate prepared in 18 MΩ water. SDS is a detergent that is used for denaturation of proteins especially in polyacrylamide gel electrophoresis applications.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 10x Tris/Glycine/SDS Running Buffer pH: 8.3,	*500 ml*	*TGS05*
ClearBand 10x Tris/Glycine/SDS Running Buffer pH: 8.3,	*1000 ml*	*TGS10*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 10x Tris/Glycine/SDS Running Buffer, pH: 8.3, is formulated for separation of proteins in the denatured form on sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE).
ClearBand 10x Tris/Glycine/SDS Running Buffer provides a convenient way to ensure high quality, consistent, and reproducible electrophoresis results.
ClearBand 10x Tris/Glycine/SDS Running Buffer is filter steriled and prepared with ultra-pure water.

Features:

Easy-to-use: Requires a simple dilution with deionized water before use.
Reliable: Consistent electrophoresis results

Storage Conditions: Store at room temperature.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Tris-Glycine Buffer (10x)	*500 ml*	*TG10-500*
ClearBand Tris-Glycine Buffer (10x)	*1000 ml*	*TG10-1000*

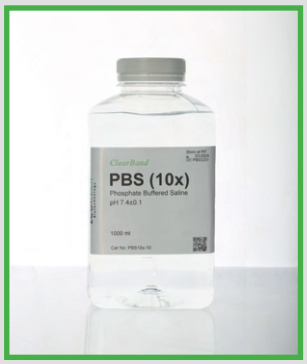
For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Tris-Glycine Buffer (10x) is an ideal stock solution for preparing standard Tris-glycine transfer buffer used for Western blotting. ClearBand Tris-Glycine Buffer (10x) is prepared with ultra-pure water and filter sterilized.

Storage Conditions: Store between 2-8°C.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Phosphate Buffered Saline (10x), ph:7.4	*500 ml*	*PBS10x-500*
ClearBand Phosphate Buffered Saline (10x), ph:7.4	*1000 ml*	*PBS10x-1000*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.



General Information: ClearBand 10x Phosphate-Buffered Saline (PBS) is a balanced salt solution which is used for a number of cell culture applications including washing cells before trypsinization, transport of cells or tissue samples, diluting cells for counting, and preparing reagents. ClearBand PBS does not contain calcium and magnesium for rinsing chelators from the culture before cell dissociation.
ClearBand 10x PBS is prepared with ultra-pure water, filter sterilized and autoclaved.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Phosphate Buffered Saline with Tween® 20 (10x), ph:7.4	*500 ml*	*PBST1005*
ClearBand Phosphate Buffered Saline with Tween® 20 (10x), ph:7.4	*1000 ml*	*PBST1010*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 10x Phosphate-Buffered Saline with Tween® 20 (PBST) is a balanced salt solution which is used for especially western blotting and ELISA procedures. ClearBand PBST enables washing without disturbing antibody-antigen binding interactions. ClearBand PBST does not contain calcium and magnesium.
ClearBand 10x PBST should be diluted to 1x working solution. 1x formulation contains 0.05% Tween 20.
ClearBand 10x PBST is prepared with ultra-pure water and filter sterilized.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature

Product	Size	Cat #
ClearBand Tris-Buffered Saline (10x), ph:7.6	*500 ml*	*TB10-500*
ClearBand Tris-Buffered Saline (10x), ph:7.6	*1000 ml*	*TBS10-1000*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 10x Tris-Buffered Saline (TBS) is a balanced pH stabilizing salt solution used for especially western blotting and ELISA procedures. ClearBand TBS enables washing without disturbing antibody-antigen binding interactions. ClearBand 10x TBS should be diluted to 1x working solution. ClearBand 10x TBS is prepared with ultra-pure water and filter sterilized.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Tris-Buffered Saline (20x), ph:7.6	*500 ml*	*TB2005*
ClearBand Tris-Buffered Saline (20x), ph:7.6	*1000 ml*	*TB2010*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 20x Tris-Buffered Saline (TBS) is a space-saving balanced pH stabilizing salt solution used for especially western blotting and ELISA procedures. ClearBand TBS enables washing without disturbing antibody-antigen binding interactions.
ClearBand 20x TBS should be diluted to 1x working solution with a pH 7.6±0.1.
ClearBand 20x TBS is prepared with ultra-pure water and filter sterilized.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Tris-Buffered Saline with Tween® 20 (10x), ph:7.6	*500 ml*	*TBST05*
ClearBand Tris-Buffered Saline with Tween® 20 (10x), ph:7.6	*1000 ml*	*TBST10*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 10x Tris-Buffered Saline with Tween® 20 (TBST) is a balanced pH stabilizing salt solution used for especially western blotting and ELISA procedures. ClearBand TBST enables washing without disturbing antibody-antigen binding interactions.
ClearBand 10x TBST should be diluted to 1x working solution. 1x formulation contains 0.1% Tween 20. ClearBand 10x TBST is prepared with ultra-pure water and filter sterilized

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Tris-Buffered Saline with Tween® 20 (20x), ph:7.6	*500 ml*	*TBST2005*
ClearBand Tris-Buffered Saline with Tween® 20 (20x), ph:7.6	*1000 ml*	*TBST2010*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 20x Tris-Buffered Saline with Tween® 20 (TBST) is a space-saving balanced pH stabilizing salt solution used for especially western blotting and ELISA procedures. ClearBand TBS enables washing without disturbing antibody-antigen binding interactions.
ClearBand 20x TBST should be diluted to 1x working solution. 1x formulation contains 0.1% Tween 20. ClearBand 20x T BST is prepared with ultra-pure water and filter sterilized.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand Western Blot Box	*Small*	*WBB001*
ClearBand Western Blot Box	*Medium*	*WBB010*
ClearBand Western Blot Box	*Large*	*WBB100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Western blot boxes are available in 3 different sizes and will perfectly fit blots of different sizes, including whole blots, half blots, and strips.
Save Money on Expensive Antibodies - now less volume is required! Our ClearBand Western blot boxes significantly help reducing the volume of antibody required while still producing perfect Westerns!

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 1M Tris, pH 6.8	500 ml	T6805
ClearBand 1M Tris, pH 6.8	1000 ml	T6810

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 1M Tris, pH 6.8 is a pre-mixed and pH-adjusted ready to use sterile-filtered solution. ClearBand 1M Tris, pH 6.8 can be diluted to desired concentration and can be used in molecular biology or general biochemistry applications.

Storage Conditions: Store at room temperature.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 1M Tris, pH 7.4	500 ml	T7405
ClearBand 1M Tris, pH 7.4	1000 ml	T7410

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 1M Tris, pH 7.4 is a pre-mixed and pH-adjusted ready to use sterile-filtered solution. ClearBand 1M Tris, pH 7.4 can be diluted to desired concentration and can be used in molecular biology or general biochemistry applications.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 1M Tris, pH 8	500 ml	T805
ClearBand 1M Tris, pH 8	1000 ml	T810

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 1M Tris, pH 8 is a pre-mixed and pH-adjusted ready to use sterile-filtered solution. ClearBand 1M Tris, pH 8 can be diluted to desired concentration and can be used in molecular biology or general biochemistry applications.

Storage Conditions: Store at room temperature.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 1M Tris, pH 8.5	500 ml	T8505
ClearBand 1M Tris, pH 8.5	1000 ml	T8510

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 1M Tris, pH 8.5 is a pre-mixed and pH-adjusted ready to use sterile-filtered solution. ClearBand 1M Tris, pH 8.5 can be diluted to desired concentration and can be used in molecular biology or general biochemistry applications.

Storage Conditions: Store at room temperature.
Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 1M Tris, pH 8.8	500 ml	T8805
ClearBand 1M Tris, pH 8.8	1000 ml	T8810

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 1M Tris, pH 8.8 is a pre-mixed and pH-adjusted ready to use sterile-filtered solution. ClearBand 1M Tris, pH 8.8 can be diluted to desired concentration and can be used in molecular biology or general biochemistry applications.

Storage Conditions: Store at room temperature.
Shipping Conditions: Ship at ambient temperature.

Gel Electrophoresis

Product	Size	Cat #
ClearBand DNA Marker 100bp-Green	*500 µl /100 loads*	*DM100*

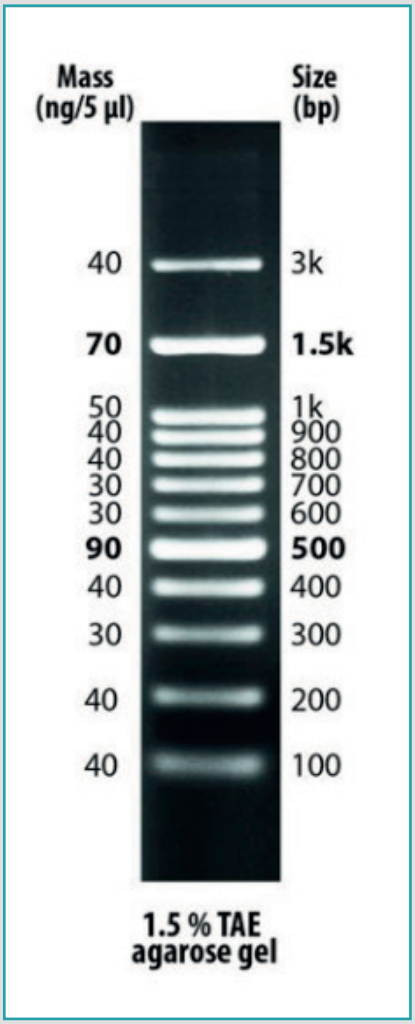
For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand DNA Marker 100bp-Green is a ready-to-load molecular weight marker suitable for DNA fragment size determination on gel electrophoresis.
PCR products and double-stranded DNA were digested with appropriate restriction enzymes to completion to yield 12 bands, ranging from 100 bp – 3 kb, for molecular weight standards in agarose gel electrophoresis. The 500 and 1,500 base pair bands have increased intensity to serve as quick reference points. Approximated mass of each DNA band is provided (for a loading size of 5 µl of the DNA ladder) for approximating the mass of DNA in comparably intense DNA samples of similar size.

Features: Ready-to-use

Storage Conditions: Store at 4°C for up to 3 months or -20°C for up to 24 months.

Shipping Conditions: Ship at ambient temperature



Product	Size	Cat #
ClearBand DNA Marker 1kb-Blue	*500 µl /100 loads*	*DM1000*

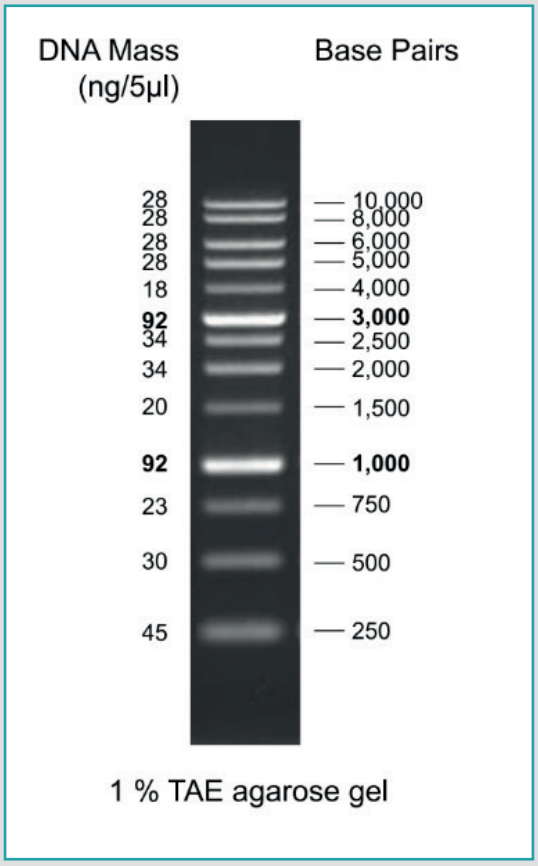
For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand DNA Marker 1kb-Blue is a ready-to-load molecular weight marker suitable for DNA fragment size determination on gel electrophoresis.
PCR products and double-stranded DNA were digested with appropriate restriction enzymes to completion to yield 14 bands, ranging from 250 bp – 10 kb, for molecular weight standards in agarose gel electrophoresis. The 1000 and 3000 base pair bands have increased intensity to serve as quick reference points. Approximated mass of each DNA band is provided (for a loading size of 5 µl of the DNA ladder) for approximating the mass of DNA in comparably intense DNA samples of similar size.

Features: Ready-to-use

Storage Conditions: Store at 4°C for up to 3 months or -20°C for up to 24 months.

Shipping Conditions: Ship at ambient temperature.



Product	Size	Cat #
ClearBand SAFE DNA Gel Stain Solution, 20,000x	*1 ml*	*SDGS1*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

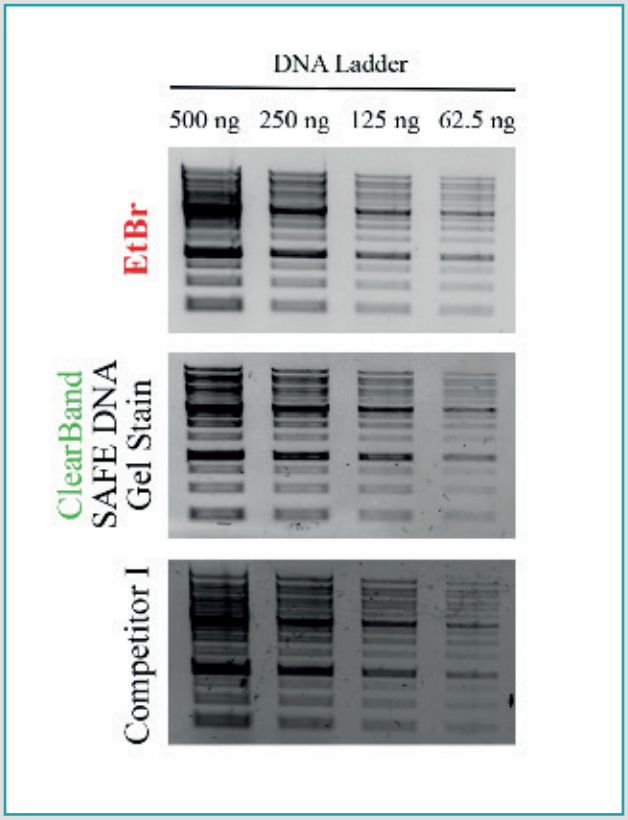
General Information: ClearBand SAFE DNA Gel Stain Solution, 20,000x, is an aqueous fluorescent nucleic acid gel stain as a safer alternative to traditional ethidium bromide (EtBr) to be used at 1x concentration in agarose or polyacrylamide gels.
One vial (1 ml) of ClearBand SAFE DNA Gel Stain Solution, 20,000x, can be used to prepare at least 200 precast mini gels.
ClearBand SAFE DNA Gel Stain Solution, 20,000x is compatible with downstream applications including gel extraction and cloning.

Key Features:

Safety: No toxicity, no mutagenicity and no carcinogenicity.
Eco-friendly: Safe to dispose in the drain. No hazard wastes.
Affordable: Low cost. An affordable alternative to competing dyes.
Compatibility: Compatible with instruments that are suitable for detection of gels with EtBr. Suitable for blue LED detection.

Storage Conditions: Stable for at least 1 year when stored at 4°C.

Shipping Conditions: Ship at ambient temperature.



Product	Size	Cat #
ClearBand TAE 50x, Electrophoresis Buffer	*500 ml*	*TAE500*
ClearBand TAE 50x, Electrophoresis Buffer	*1000 ml*	*TAE1000*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand TAE 50x Electrophoresis Buffer is a commonly used concentrate buffer for separation of nucleic acids in agarose and polyacrylamide gels. It is preferred in high resolution agarose gel electrophoresis applications and separation of high molecular weight, double-stranded DNA. It should be diluted to a working concentration of 1x before use. Fresh 1x buffer is recommended to use for each electrophoresis application.

Features:

• **Easy-to-use:** Requires a simple dilution with deionized water before use.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand TBE 10x, Electrophoresis Buffer	*500 ml*	*TBE500*
ClearBand TBE 10x, Electrophoresis Buffer	*1000 ml*	*TBE1000*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: Clearband TBE 10x Electrophoresis Buffer is a commonly used concentrate buffer for separation of nucleic acids in agarose and polyacrylamide gels. It should be diluted to a working concentration of 1x before use. Fresh 1x buffer is recommended to use for each electrophoresis application.

Features:

• **Easy-to-use:** Requires a simple dilution with deionized water before use.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 6x DNA Loading Dye Green	*5x1 ml*	*DLD-6xG*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 6x DNA Loading Dye Green is a pre-mixed buffer, which can be used for loading DNA markers and samples into the wells of agarose and non-denaturing polyacrylamide gels.
It contains two tracking dyes, Xylene Cyanol FF and Orange G, for visualization of DNA migration on the gels. Orange G runs around 50 bp fragment in agarose gels, which provides much better tracking of DNA before it runs off the gel. Besides, Orange G does not result in formation of a dark shadow on the gel as Bromophenol Blue does, which runs around 400 bp fragment precisely where PCR fragments are likely to be.

Features: Ready-to-use

Storage Conditions: Stable for 1 year at 2-8°C or at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
ClearBand 6x DNA Loading Dye Blue	*5x1 ml*	*DLD-6xB*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand 6x DNA Loading Dye Blue is a pre-mixed buffer, which can be used for loading DNA markers and samples into the wells of agarose and non-denaturing polyacrylamide gels.
It contains two tracking dyes, Xylene Cyanol FF and Bromophenol Blue, for visualization of DNA migration on the gels. Xylene Cyanol FF runs around 400 bp and Bromophenol Blue runs around 400 bp fragment in agarose gels,
which provides a feasible tracking of DNA before it runs off the gel.

Features: Ready-to-use

Storage Conditions: Stable for 1 year at 2-8°C or at room temperature.

Shipping Conditions: Ship at ambient temperature.

Cell Culture

Product	Size	Cat #
NutriCulture Cell Viability Detection Kit-8	*500 Tests*	*CVDK-8*

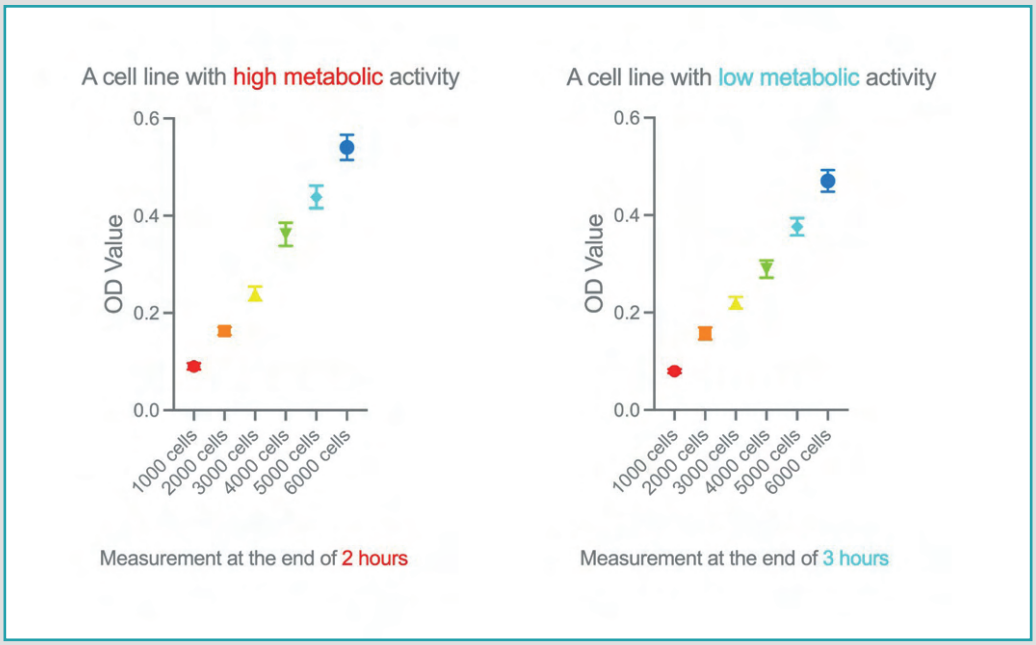
For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: NutriCulture Cell Viability Detection Kit-8 (CVDK-8) allows very convenient assays by utilizing its highly water-soluble tetrazolium salt. WST-8 [2-(2-methoxy-4-nitrophenyl)-3-(4-nitrophenyl)-5-(2,4-disulfophenyl)- 2H-tetrazolium, monosodium salt] produces a water-soluble formazan dye upon reduction in the presence of an electron mediator. NutriCulture CVDK-8 is a one-bottle solution; no premixing of components is required. NutriCulture CVDK- 8, allows sensitive colorimetric assays for the determination of the number of viable cells in cell proliferation and cytotoxicity assays. WST-8 is reduced by dehydrogenases in cells to give an orange colored product (formazan), which is soluble in the tissue culture medium.
The amount of the formazan dye generated by dehydrogenases in cells is directly proportional to the number of living cells.
The detection sensitivity using NutriCulture CVDK-8 is higher than assays using other tetrazolium salts such as MTT, XTT, MTS or WST-1

Features:

Sensitive: It allows for thicker bands especially when working with small number of cells, lysates with low concentration, and proteins with low expression.
Ease of use: CVDK-8 is water soluble; there is no need to use DMSO to dissolve formazan crystals.
Quick: CVDK-8 is more sensitive than assays using other tetrazolium salts such as MTT, XTT, MTS or WST-1.

Storage Conditions: Store at 2-8°C. CVDK-8 is stable over one year at 2-8°C with protection from light.
Shipping Conditions: Ship at ambient temperature.

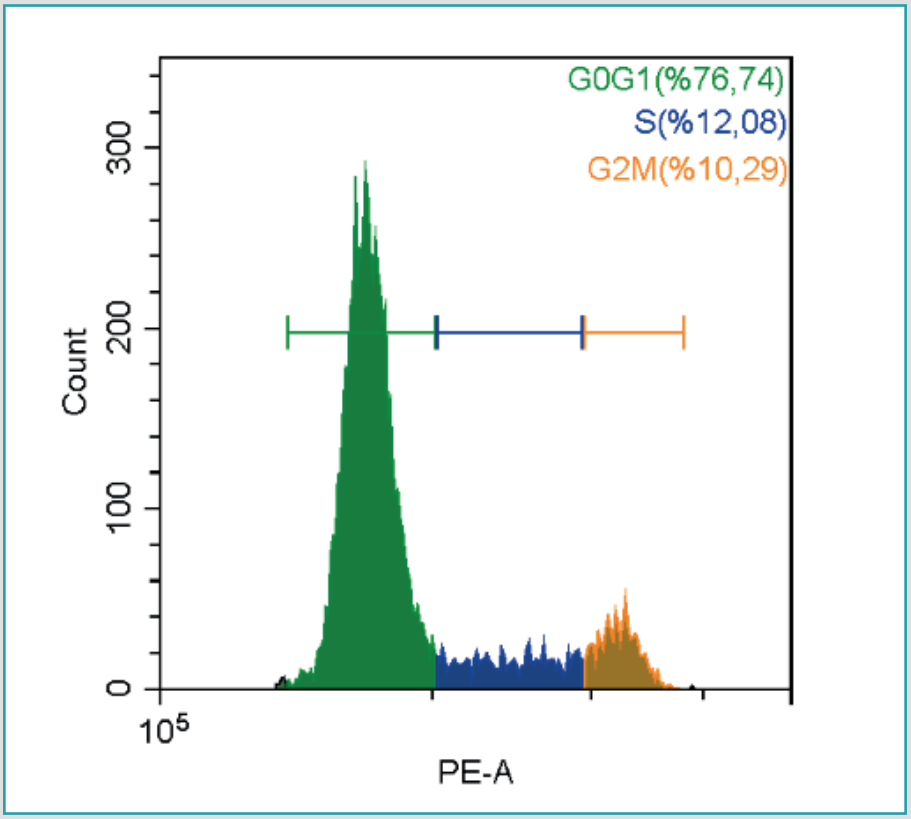


Product	Size	Cat #
NutriCulture Cell Cycle Analysis Kit	20 Tests	CCA20
NutriCulture Cell Cycle Analysis Kit	50 Tests	CCA50
NutriCulture Cell Cycle Analysis Kit	100 Tests	CCA100

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: NutriCulture Cell Cycle Analysis Kit detects alterations in cell cycle by measuring DNA content. DNA binds to fluorescent dyes like PI and the fluorescence intensity at different stages of the cell cycle detected by flow cytometry can be different, which serves to detect different phases in cell cycle.
NutriCulture Cell Cycle Analysis Kit is intended to be used to detect the DNA content (cell cycle) of cultured suspension or adherent cells.

Storage Conditions: Store RNAse A Reagent at -20°C. Avoid repeated freeze and thaw cycles. Store Propidium Iodide (PI) Staining Solution at 2-8°C.
Shipping Conditions: Ship at ambient temperature.



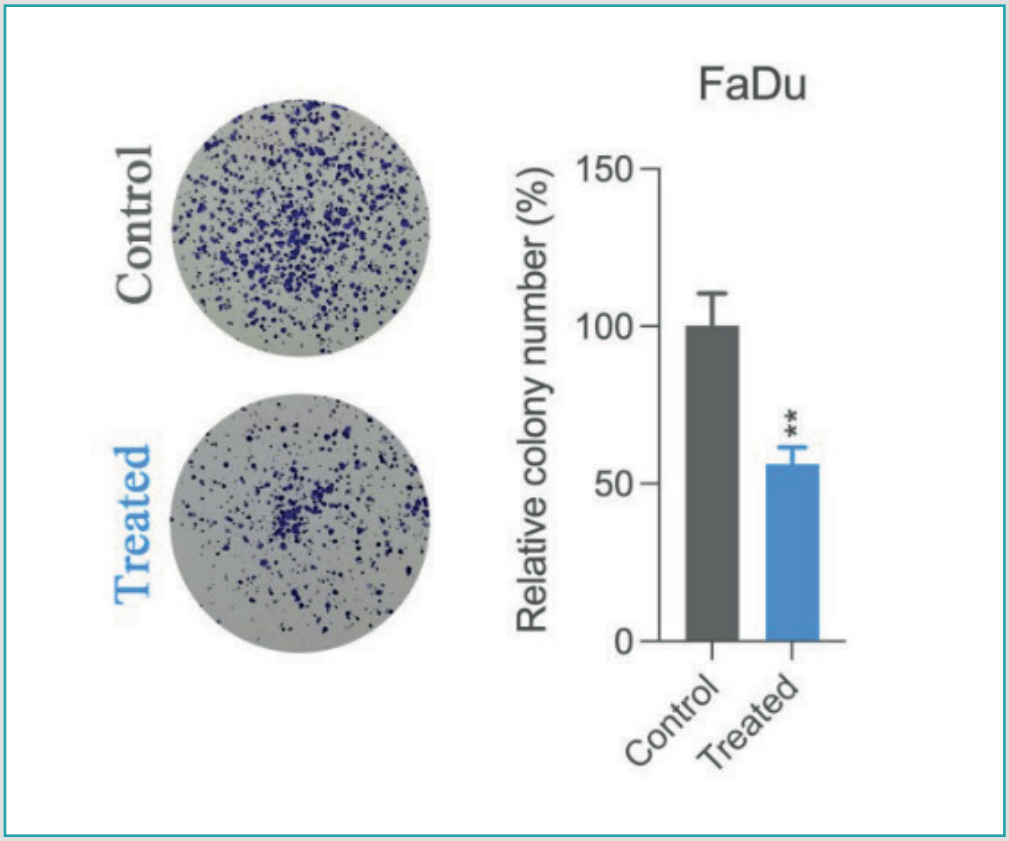
Product	Size	Cat #
CrystalStain, Cell Staining Solution	*50 ml*	*CSS50*
CrystalStain, Cell Staining Solution	*100 ml*	*CSS100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: CrystalStain, Cell Staining Solution is a frequently used reagent to visualize cells in cell culture applications like single cell colony assay, Transwell migration assay or Transwell invasion assay.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.



Product	Size	Cat #
NutriCulture 100x CellSAFE	*50 ml*	*CS50*
NutriCulture 100x CellSAFE	*100 ml*	*CS100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: Contamination of cell cultures is a frequent and important problem faced in cell and tissue culture laboratories. It results in delays in experimental schedules, and thus causes waste of precious time, money and efforts. 100x CellSAFE helps keeping your incubators clear of undesired contamination with its strong antimicrobial and fungicidal features against a wide variety of well-known lab contaminants, without effecting the morphology and proliferative potential of routinely used cells in cell and tissue culture laboratories.

Features

Effective: Protects against contamination up to 1 month.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
NutriCulture Trypan Blue, 0.4% Solution	*100 ml*	*TRY-B100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: Trypan Blue, 0.4% Solution is a frequently used reagent to count cells in cell culture facilities when subculturing cells or using them in further functional in vitro and in vivo assays. It is also used to measure cell viability using dye exclusion assay, where only dead cells are stained with Trypan Blue, while viable cells are not stained.

Features: Ready-to-use Solution

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
NutriCulture DMSO (Dimethyl Sulfoxide), Sterile	*50 ml*	*DMSO50*
NutriCulture DMSO (Dimethyl Sulfoxide), Sterile	*100 ml*	*DMSO100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: NutriCulture DMSO (Dimethyl Sulfoxide), Sterile, is a colorless, polar, aprotic organic solvent used in chemical research. It is miscible with water and many other organic solvents.
NutriCulture DMSO (Dimethyl Sulfoxide), Sterile, is also widely used in polymerase chain reactions (PCR) as a co-solvent, helping to inhibit the formation of secondary structures from DNA fragments and as a cryoprotectant vitrification agent for the preservation of cells, tissues and organs via prevention of ice crystal formation during cryopreservation.

Features: Ready-to-use Solution

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
NutriCulture Phosphate Buffered Saline (1x), pH: 7.4	*500 ml*	*PBS1x-500*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: NutriCulture Phosphate-Buffered Saline (PBS) is a balanced salt solution, which is used for a number of cell culture applications including washing cells before trypsinization, transport of cells or tissue samples, diluting cells for counting and preparing reagents. NutriCulture PBS does not contain calcium and magnesium for rinsing chelators from the culture before cell dissociation. NutriCulture PBS is prepared with ultra-pure water, filter sterilized and autoclaved.

Features: Ready-to-use Solution

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
NutriCulture RPMI-1640	*500 ml*	*RPMI500*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: NutriCulture RPMI 1640, also known as RPMI Medium, was originally developed by Moore and his co-workers in 1966 Roswell Park Memorial Institute to culture human leukemia cells in suspension and monolayer. NutriCulture RPMI 1640 Medium was formulated for use in a 5% carbon dioxide atmosphere and has since been found suitable for culture of a variety of mammalian cells, including HeLa, Jurkat, MCF-7, PC12, PBMC, astrocytes, and carcinomas.
NutriCulture RPMI 1640 has also traditionally been used for the serum-free expansion of human lymphoid cells for karyotype analysis.
Each lot of NutriCulture RPMI 1640 is prepared from powdered base medium, tissue culture-grade water,
and is sterile filtered using a 0.1 micron filter.
Each lot of NutriCulture RPMI 1640 is tested to confirm the absence of bacterial, fungal, and mycoplasma contamination.

Features: Ready-to-use Solution

Storage Conditions: Store at 2-8°C with protection from light. Once opened, use within 6-8 weeks.

Shipping Conditions: Ship at ambient temperature.

Product	Size	Cat #
NutriCulture DMEM, High Glucose	*500 ml*	*DMEM-HG*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: Dulbecco's Modified Eagle's Medium (DMEM) is a standard basal cell culture medium that is a modification of Basal Medium Eagle. NutriCulture DMEM contains four-fold concentrations of the amino acids and vitamins than the original Eagle's Minimal Essential Medium. The original formulation contained 1000 mg/L of glucose and
was used to culture embryonic mouse cells.
Since then, it has been modified in several ways to support the growth of primary fibroblasts, neurons, glial cells, HUVECs, and smooth muscle cells, as well as cell lines such as HeLa, HEK 293, Cos-7, and PC-12. Each of these media offers a different combination of L-glutamine and sodium pyruvate. Additionally, the glucose levels have been raised to
4500 mg/L, contributing to the name DMEM High Glucose.
Each lot of NutriCulture DMEM High Glucose is prepared from powdered base
medium, tissue culture-grade water, and is sterile filtered using a 0.1 micron filter.
Each lot of NutriCulture DMEM High Glucose is tested to confirm the absence of bacterial, fungal, and mycoplasma contamination.

Features: Ready-to-use Solution

Storage Conditions: Store at 2-8°C with protection from light. Once opened, use within 6-8 weeks.

Shipping Conditions: Ship at ambient temperature

Product	Size	Cat #
NutriCulture Fetal Bovine Serum (FBS), Heat Inactivated	*50 ml*	*FBS50*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: NutriCulture Fetal Bovine Serum (FBS) is used to supplement basal growth medium in cell culture applications. NutriCulture FBS can provide the cell health, maintenance and viability critical for optimal performance and cell growth in your culture medium.
Heat inactivation of serum is performed by raising the temperature of the serum to 56ºC and maintaining that temperature for 30 minutes.

Storage Conditions: Store at -20°C.

Shipping Conditions: Ship at dry ice.

Product	Size	Cat #
NutriCulture Trypsin-EDTA (0.25%), phenol red	*100 ml*	*TE025*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: NutriCulture Trypsin-EDTA (0.25%), phenol red is used for cell dissociation, routine cell culture passaging, and primary tissue dissociation. The trypsin concentration required for dissociation may vary depending on cell type and experimental requirements.

Features: Ready-to-use Solution

Storage Conditions: Store at -20°C with protection from light. Once opened, use within 6-8 weeks.

Shipping Conditions: Ship with wet ice.

Product	Size	Cat #
NutriCulture Penicilin-Streptomycin	*100 ml*	*PS100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: NutriCulture Penicillin-Streptomycin is used to prevent bacterial contamination of cell cultures due to their effective combined action against gram-positive and gram-negative bacteria.

Features: Ready-to-use Solution

Storage Conditions: Store at -20°C.

Shipping Conditions: Ship with dry ice

Product	Size	Cat #
NutriCulture Antibiotic/Antimycotic (100x)	*100 ml*	*AA100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: NutriCulture Antibiotic/Antimycotic (100x) is used to prevent bacterial and fungal/yeast contamination of cell cultures due to their effective combined action against gram-positive and gram-negative bacteria as well as fungus and yeast.

Features: Ready-to-use Solution

Storage Conditions: Store at -20°C.
Shipping Conditions: Ship with dry ice

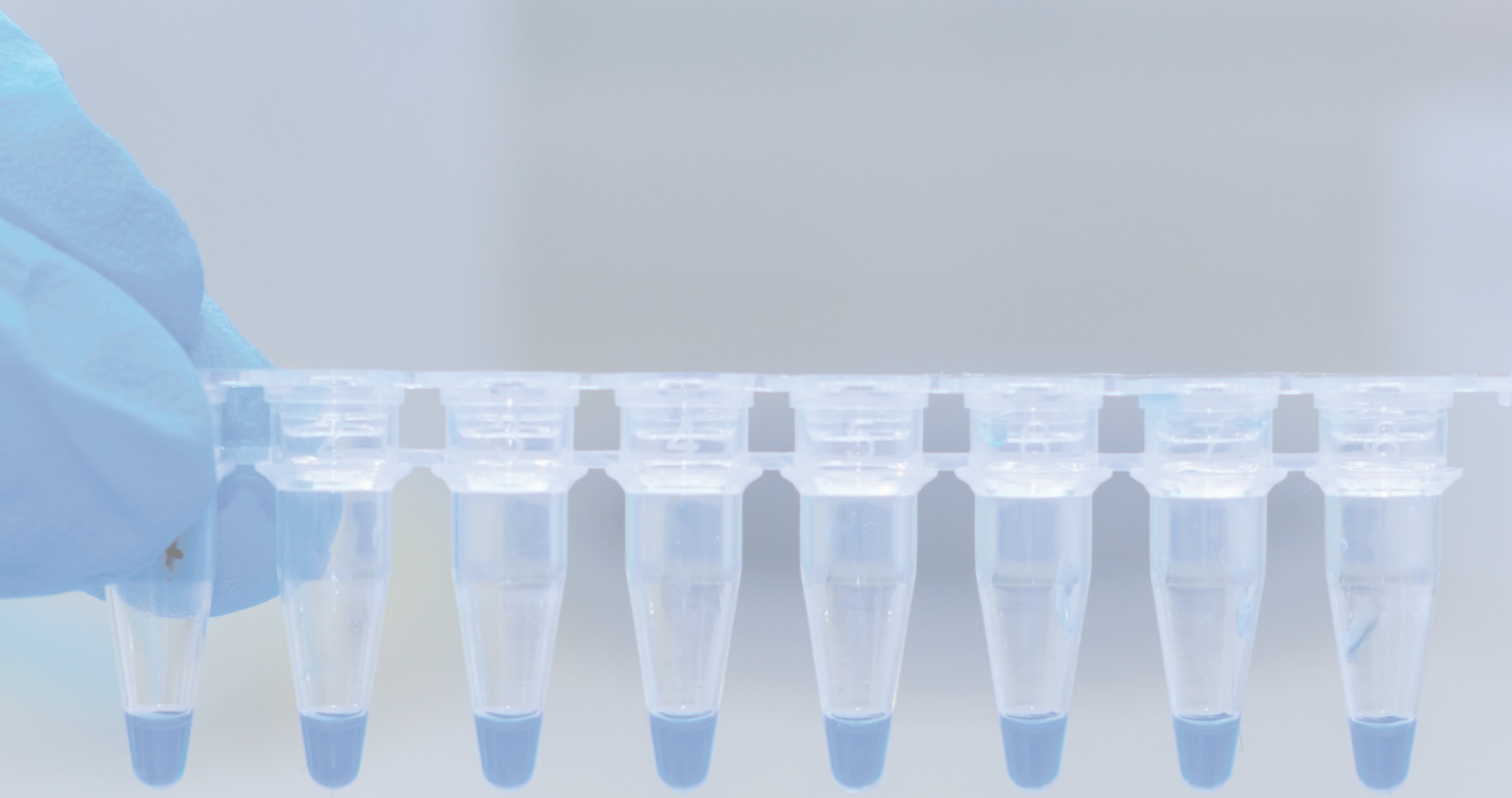
Product	Size	Cat #
NutriCulture L-Glutamine (200 mM))	*100 ml*	*LG100*

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: NutriCulture L-Glutamine (200 mM) is a ready-to-use 200 mM stock solution that acts as a cell culture supplement. The optimal concentration depends on the cell type and medium used to culture the cells, but generally falls in the range of 2–6 mM.

Features: Ready-to-use Solution

Storage Conditions: Store at -20°C.
Shipping Conditions: Ship with dry ice.



Polymerase Chain Reaction

Product	Size	Cat #
EcoTaq 2x PCR Master Mix	*40 rxn*	*ET-1*
EcoTaq 2x PCR Master Mix	*200 rxn*	*ET-5*

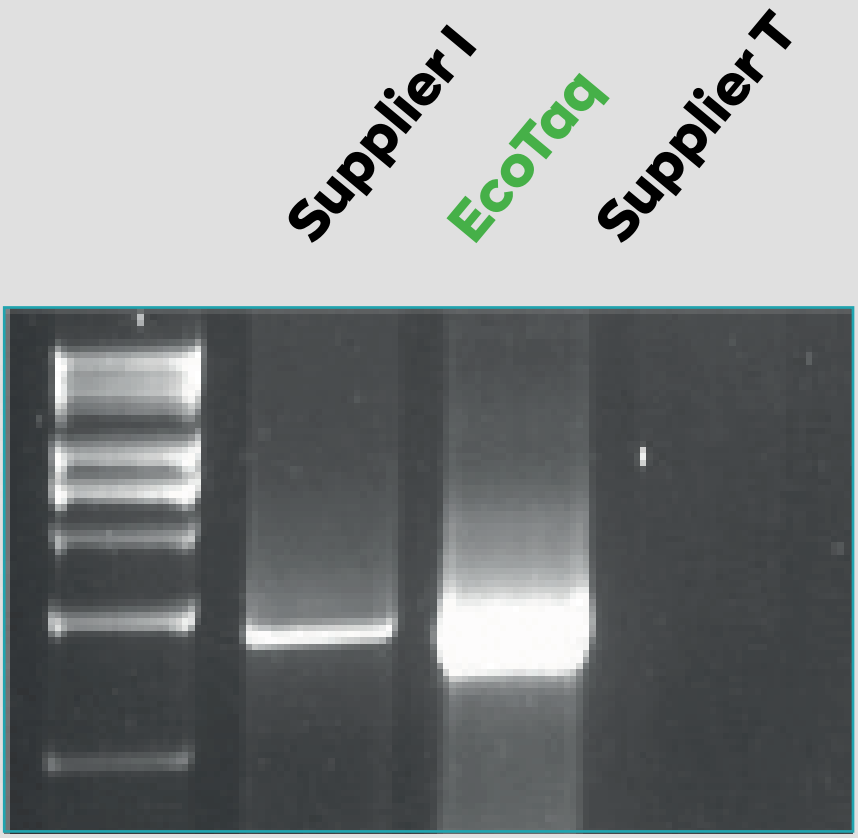
For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoTaq 2x PCR Master Mix is designed for effective and fast amplification of templates, up to 10kb, with high fidelity. The mix is provided at 2x concentration and contains EcoTaq DNA Polymerase, dNTPs, and optimized buffer. The blue dye within the mix allows immediate loading of reaction mixture after PCR. The products are a mixture of blunt ends and single base (A) 3' overhang and can be used for direct T/A cloning.

Features: Suitable for amplification of templates, up to 10kb, with high fidelity.

Easy-to-use: Just add DNA template and primers to run your reaction. Load PCR products immediately after PCR without need for adding Loading Dyes. EcoTaq saves your time.
Fast: PCR lasts less than an hour. EcoTaq saves your time.
Ecological: Your PCR wastes less electricity since it lasts less an hour. EcoTaq helps protecting environment.

Storage Conditions: Store at -20°C. Avoid freeze and thaw cycles.
Shipping Conditions: Ship at ambient temperature.



Product	Size	Cat #
ClearBand Nuclease Free Ultra-Pure Water	30 ml	DW003L
ClearBand Nuclease Free Ultra-Pure Water	100 ml	DW010L
ClearBand Nuclease Free Ultra-Pure Water	500 ml	DW05L
ClearBand Nuclease Free Ultra-Pure Water	1000 ml	DW1L

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: ClearBand Nuclease Free Ultra-Pure Water is prepared under stringent conditions and is suitable for all applications in a molecular biology laboratory. ClearBand Nuclease Free Ultra-Pure Water goes through, deionization, reverse osmosis, UV-treatment, 0.2µm filtration, and double autoclave to ensure sterility, being free of nucleases and to completely eliminate the byproducts of DEPC.

Storage Conditions: Store at room temperature.

Shipping Conditions: Ship at ambient temperature.

Enzymes

Product	Size	Cat #
EcoZyme RNAse A	1 ml	EZRA1
EcoZyme RNAse A	5x1ml	EZRA5

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoZyme RNAse A is a pre-made molecular biology grade enzyme solution which is supplied at a concentration of 10 mg/ml in 10 mM Tris-HCl (pH 8). EcoZyme RNAse A from bovine pancreas is a stable and highly reactive, DNase and protease-free, endoribonuclease that specifically degrades single stranded RNA at C and U residues. EcoZyme RNAse A is pretreated to remove DNase I and is suitable for RNA digestion in plasmid and genomic DNA purification procedures.

Features: High stability

Storage Conditions: Store at -20°C.
Shipping Conditions: Ship at ambient temperature.

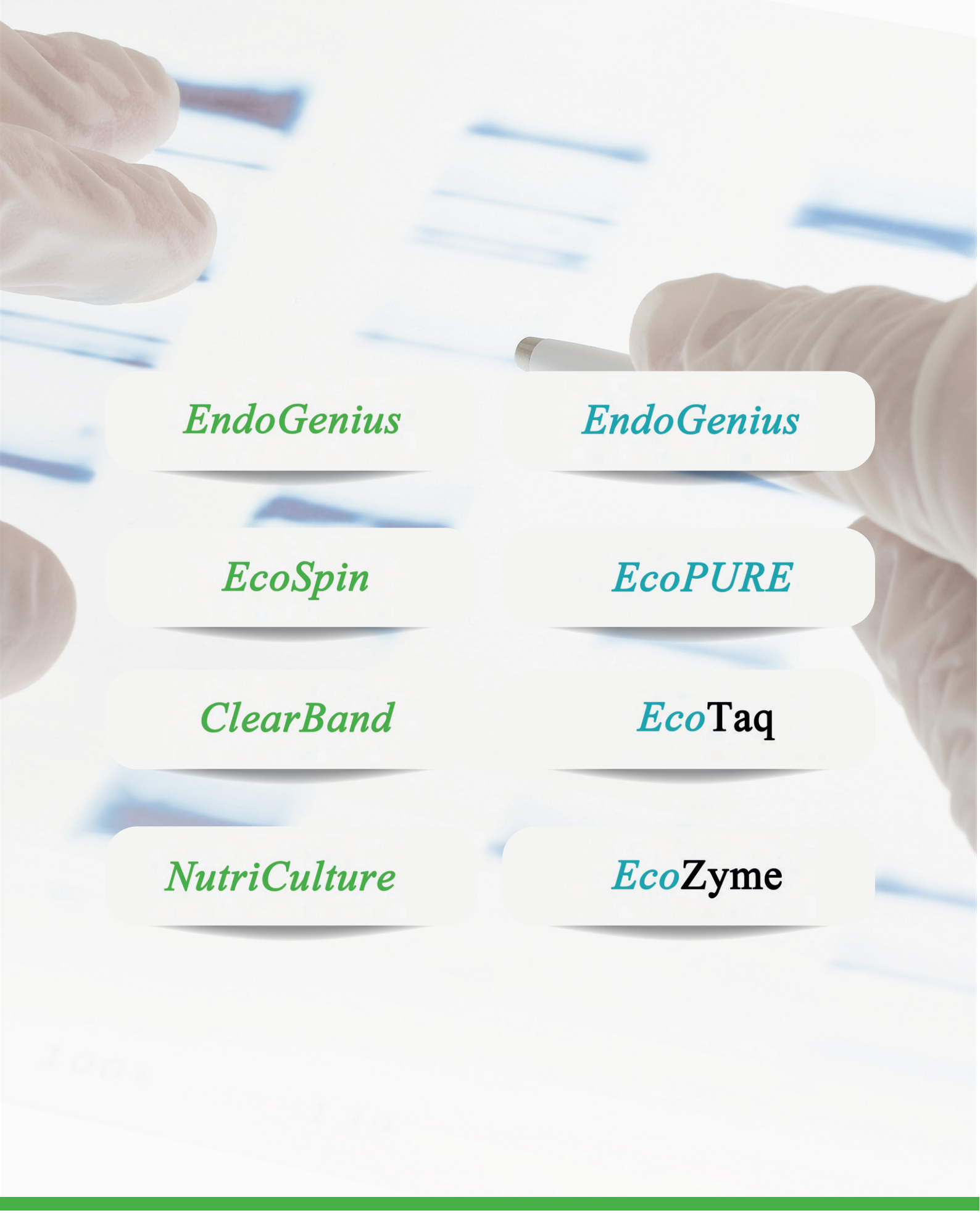
Product	Size	Cat #
EcoZyme Proteinase K	1 ml	EZPK1
EcoZyme Proteinase K	5x1ml	EZPK5

For Research Use Only. Not Intended for Use in Diagnostic Procedures.

General Information: EcoZyme Proteinase K is a pre-made molecular biology grade enzyme solution which is supplied at a concentration of 20 mg/ml in 10 mM Tris-HCl (pH 7.5), 1 mM calcium chloride and 50% glycerol. EcoZyme Proteinase K from the fungus *Tritirachium album* is a stable and highly reactive nonspecific serine protease that is useful for general digestion of proteins. EcoZyme Proteinase K is capable of inactivating RNases and DNases and is used in the isolation or preparation of high molecular weight nucleic acids.
EcoZyme Proteinase K is stable at various temperatures and may be used at 56°C for up to 4 hours, or 37°C for overnight incubations

Features: High stability

Storage Conditions: Store at -20°C.
Shipping Conditions: Ship at ambient temperature.



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