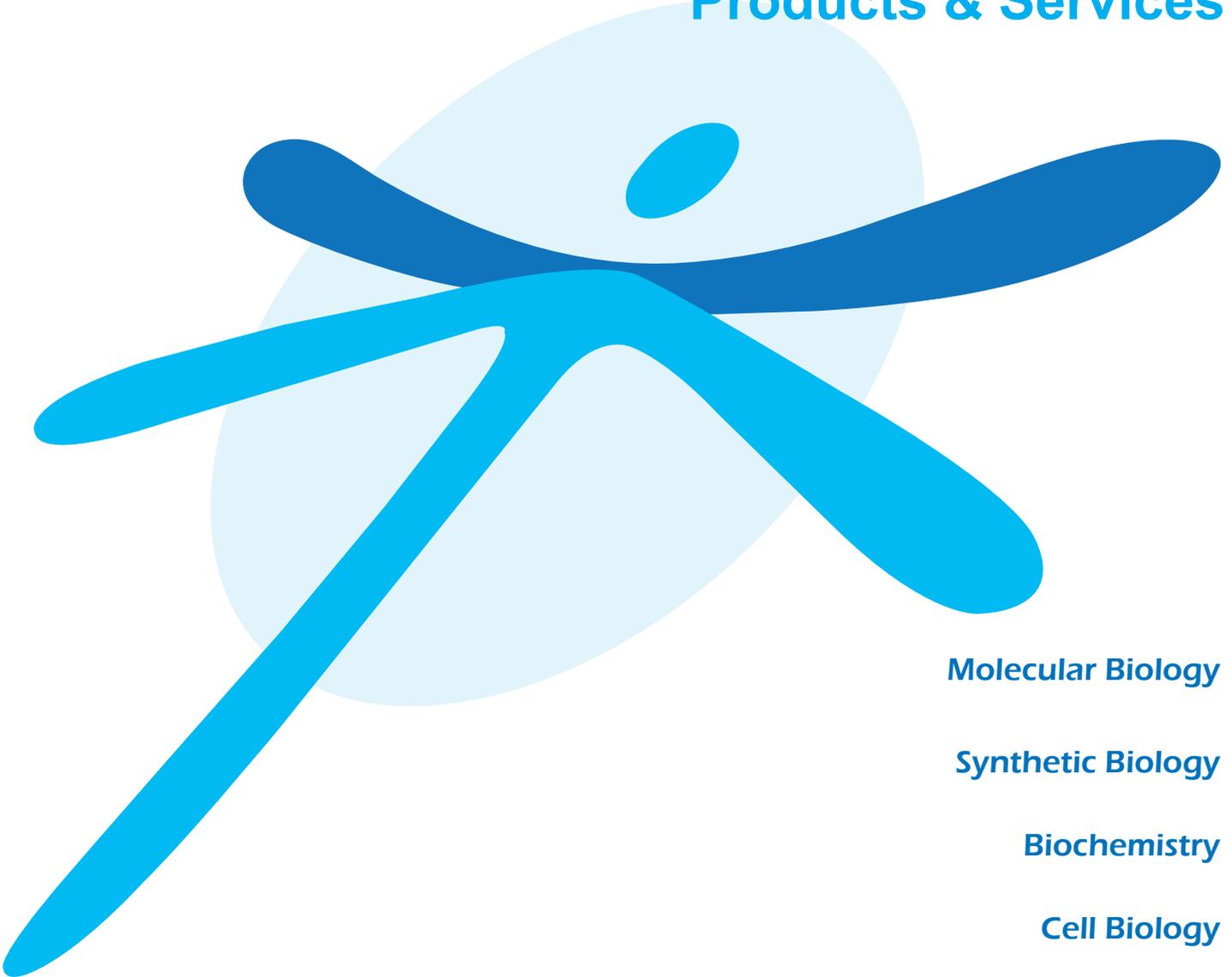


Brochure

Products & Services



Molecular Biology

Synthetic Biology

Biochemistry

Cell Biology

Microbiology

LifeSct LLC is a biological platform company founded in 2016. Our team of life scientists not only has years of scientific research experience in world-renowned universities and research institutions, but they also possess countless years of marketing and sales experience as well. Since the foundation of the company, we have been providing products and services of the highest quality to scientists all over the world. LifeSct's products and services cover a wide range of biological fields including molecular biology, synthetic biology, cell biology, biochemistry, and microbiology. Our vision is to provide our clients the best possible prices on high quality products and services while also innovating to bring greater efficiency to biological research.



**Molecular
Biology**



NGS



**Synthetic
Biology**



Biochemistry



Cell Biology



Microbiology

Parts of Current Clients



Contact Us

Headquarter

LifeSct LLC
Phone: 1-240-715-2985
Email: sales@lifesct.com
Address: 9610 Medical Center Drive, Suite 230,
Rockville, MD 20850

Branches

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Phone: 86-133-5771-9137
Email: asia@lifesct.com
Address: 858 High-tech Ave., High-tech District,
Wuhan, Hubei Province, China



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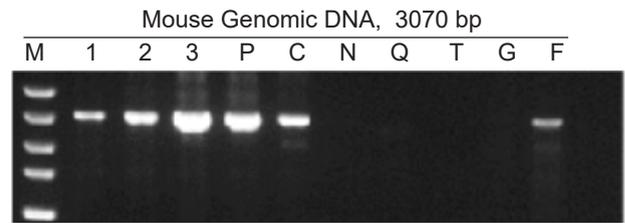
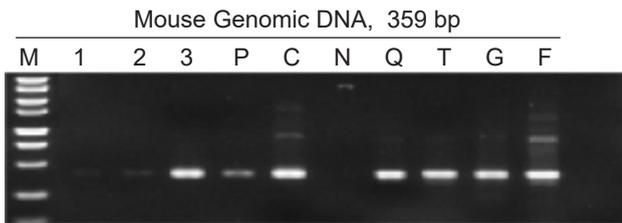
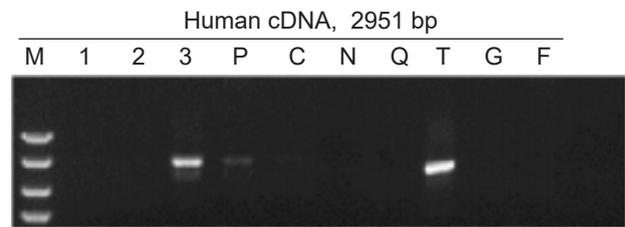
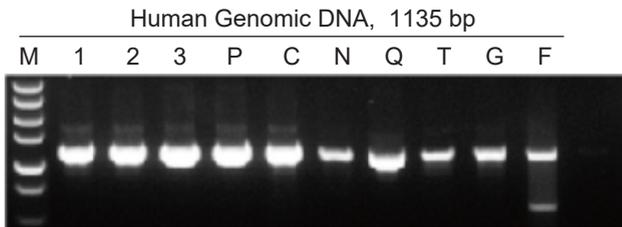
Microbiology

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LiTaq™ PCR Master Mixes

The LiTaq™ DNA Polymerase is a thermostable DNA polymerase that exhibits 5'→3' polymerase activity and 5'→3' exonuclease activity, with no 3'→5' exonuclease activity. The PCR products contain A at the 3'-end and can be directly cloned into T-Vectors. LiTaq™ and LiTaq™ Plus PCR mix are very cost-effective and ideal for genotyping.

PCR Mix	Fidelity	Extension Rate	3' end	Amplicon Size	Hot Start	Yield
LiTaq™	1×	2 kb/min	A	≤ 15 kb	No	++
LiTaq™ Plus	6×	2 kb/min	A	≤ 10 kb	No	+++
LiSpark™ Ultra	108×	6 kb/min	Blunt	≤ 20 kb	Yes	+++++



LifeSct: **2× LiTaq™ mix (M0024, Lane 1)**, **2× LiTaq™ plus mix (M0025, Lane 3)**
 Competitors: Brand C, Brand N, Brand Q, Brand T, Brand G, Brand F
 Samples: Human genomic DNA & cDNA, Mouse genomic DNA

From the above results, it can be concluded that for PCR amplification of different length and kind of templates, all four PCR mixes from our company performed superbly. For general PCR, our products have the broadest applicability, best success rate, highest specificity and maximal yield. In the most difficult situations, when all other PCR mixes failed, at least one of our products still worked.

Product Name	Cat. #	Size	Price
2× LiTaq™ PCR Master Mix (+Dye)	M0024-15	15 ml	\$229.00
2× LiTaq™ Plus PCR Master Mix (+Dye)	M0025-15	15 ml	\$349.00

Please visit www.lifesct.com/LiTaq for more information

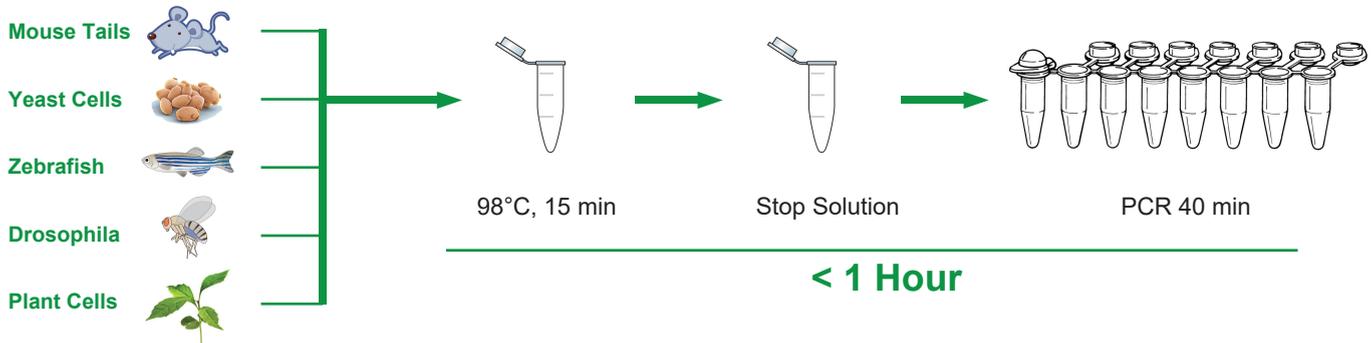
"I'm citing 2× LiTaq™ Plus PCR Master Mix in my manuscript for a protein engineering paper. It is extremely effective, and I really appreciated the sample. I'll send you a copy as soon as it's published. BTW, LiScript™ Fast RT Master Mix works great, actually I wanted to mention how fast and easy it was to use. The addition of RNase inhibitor and the 5x concentration are perfect for fast experiments."

----- San Diego State University, Dr. Brent White, Postdoc

LiDirect™ Lightning Genotyping Kit

The LiDirect™ Lightning Genotyping Kit is designed for fast extraction of tissue DNA and subsequent PCR verification.

- The procedure is fast and simple, amenable to automation. The entire process takes less than 1 hour.
- Does not use hazardous chemicals such as phenol, chloroform, proteinase K or guanidine isothiocyanate.
- There is no need for mechanical disruption, organic extraction, column purification, or precipitation of the DNA.



Taking advantage of our new proprietary formula, the LiDirect™ DNA extraction buffer enables fast DNA release from the toughest cells, and performs much better than traditional alkaline lysis protocols. Combined with our industry leading LiTaq™ Plus DNA polymerase, our LiDirect™ Lightning Genotyping Kit helps scientists to genotype all types of tissues and cells effortlessly.

Step 1: sample preparation:

- 1~2 mm piece of mouse tail
- 5~10 mg of tissue
- ~1×10⁶ cells

Step 2: add 75 µl of LiDirect™ Extraction Buffer

Incubate at 98°C for 15 min

Step 3: add 125 µl of LiDirect™ Stop Solution

Step 4: set up 25 µl of LiTaq™ Plus PCR reaction mix

PCR cycling for amplification:

1. 95°C: 15 sec
2. 35 ×
 1. Denaturation: 5 sec at 98°C
 2. Annealing: 10 sec at 55°C
 3. Extension: 30 sec/kb at 72°C
3. Final extension: 5 min at 72°C

Product Name	Cat. #	Size	Price
LiDirect™ Lightning Genotyping Kit	M0015-04	400 rxns	\$199.00
LiDirect™ Lightning Genotyping Kit	M0015-20	2000 rxns	\$699.00

Please visit www.lifesct.com/genotyping-kit for more information

"The LiDirect™ Lightning Genotyping Kit that I sampled gave clear results and was much more efficient than the methods my lab had been using in the past. With the buffer that is included in the kit, there is no need to make an extraction buffer. Additionally, the quick extraction step (just 15 minutes) really cuts down on time and makes a huge difference. I am very satisfied with the product and plan on using this kit. Thank You!"

----- Icahn SMMS, Emmy Sakakibara, Lab Manager

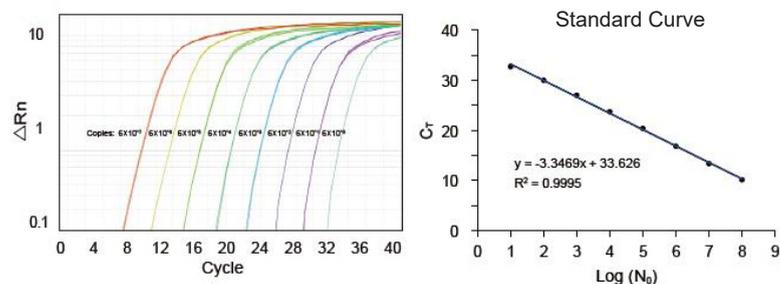
"LiDirect™ Lightning Genotyping Kit worked very well. But our lab has a lot of previous genotyping kit. After we finish them, I can order your product. Thank you."

----- Brigham and Women's Hospital, Jun Nagai, Postdoc

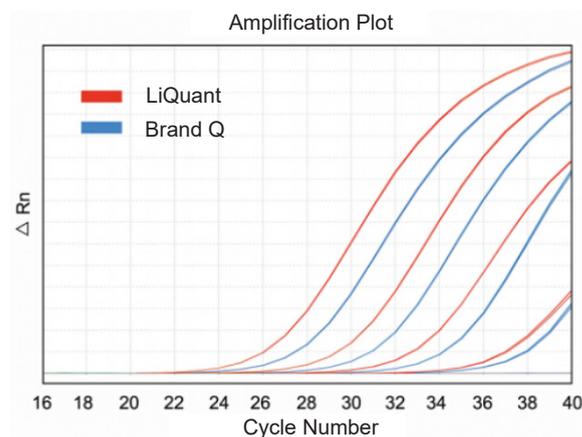
LiQuant™ qPCR Master Mixes

Our hot-start LiQuant™ DNA polymerase, along with our buffer solution, is designed to minimize non-specific amplification in **SYBR green** and **probe-based** real-time quantitative PCR (qPCR). Our LiQuant™ system is optimized to enhance amplification efficiency, making it applicable for high-sensitivity qPCR.

- The qPCR mixes are premixed reagents at 2× concentration which are convenient to handle.
- The mixes can be directly used for robust and low-template quantitative PCR with high sensitivity and specificity.
- High reliability: the mixes are stable at room temperature in one week.



LiQuant™ Universal green qPCR Master Mix is specially designed for SYBR Green I based quantitative PCR (qPCR). Unique factors in the optimized buffer system of LiQuant™ Universal green qPCR Master Mix significantly improve its sensitivity and specificity. This kit contains unique ROX Passive Reference Dye and is applicable for all Real-time PCR instruments, including instrument that needs no ROX dye, low ROX dye, or high ROX dye. The mix is prepared at 2× reaction concentration and can be directly used for robust and low-template qPCR with high sensitivity, specificity, and reliability.



When amplifying human GAPDH with serial diluted cDNA from HeLa cells with LiQuant™ Probe qPCR Master Mix or Brand Q product and 100nM TaqMan probe, **LiQuant™ Probe qPCR Master Mix** shows higher amplification efficiency, lower detection limit, and better linear relationship. Tested on ABI StepOne Plus.

Product Name	Cat. #	Size	Price
LiQuant™ Universal Green qPCR Master Mix	M0016-05	500 rxns	\$299.00
LiQuant™ Universal Green qPCR Master Mix	M0016-25	2500 rxns	\$899.00

Please visit www.lifesct.com/LiQuant for more information

*"We were pleasantly surprised at how well the **LiQuant™ Universal Green qPCR Master Mix** worked with our typically problematic samples. I was not familiar with LifeSct prior to this but will definitely keep them in mind for future molecular biology needs and would recommend this product."*

----- University of Tennessee, Rebecca Payton, Lab Manager

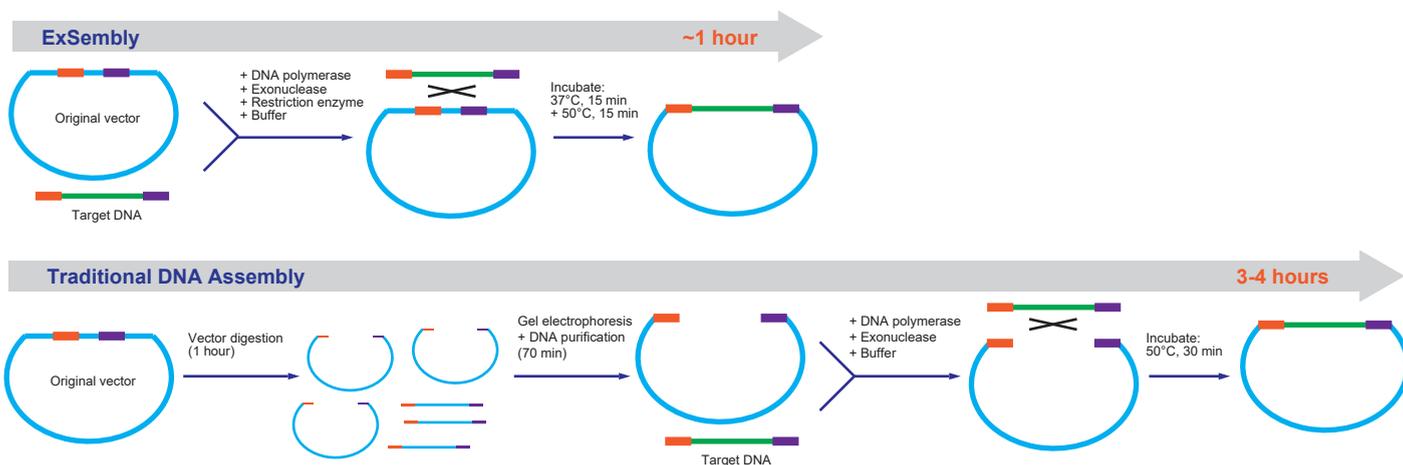
*"I have been using LiTaq™ Plus PCR Mix and **LiQuant™ Universal Green qPCR Master Mix** in my experiments for two years. The PCR mix can impressively amplify the difficult sequences in my hands. Amazingly, it rapidly amplifies the templates at ~ 2kb/min. And the qPCR mix has the higher sensitivity compared with the similar product from other company. I highly recommend these products!!!"*

----- UPENN, Janne Liu, Research Associate

ExSembly™ Cloning Master Mix

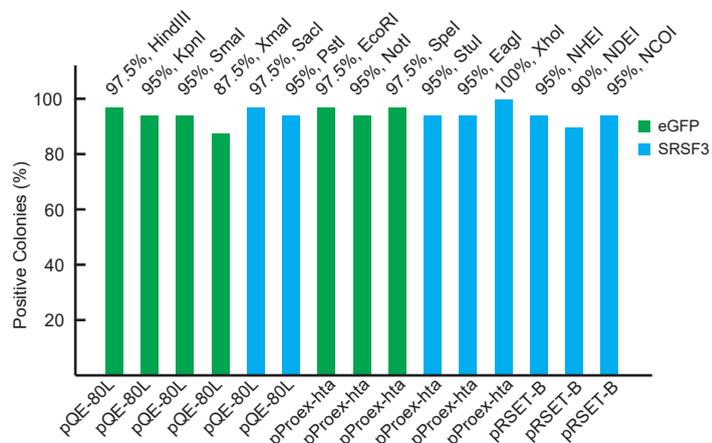
ExSembly™ cloning technology enables rapid, single-step, high-efficiency homology-based insertion of any amplified DNA product into a CIRCULAR vector.

- **One step:** combines circular vector linearization and homology-based assembly.
- **Rapid:** saves 2-3 hours by eliminating vector digestion and gel purification steps.
- **Efficient:** Typically >95% of colonies bear the correctly inserted DNA fragment.
- **Large scale:** accommodates up to 500 ng plasmid DNA in one reaction, resulting in more colonies.
- **Cost-effective:** eliminates vector digestion, gel electrophoresis and purification costs, saving up to 50%.



Restriction enzyme compatibility

ORFs of eGFP or human SRSF3 were PCR-amplified and assembled into vectors (pQE-80L, pProex-hta, pRSET-B) using ExSembly™ Master Mix. ~200 ng vector DNA was used in each ExSembly™ reaction. ExSembly™ products were purified using a DNA mini-spin column and transformed to DH10B electrocompetent cells and plated on LB/Ampicillin plates. Forty colonies were picked from each reaction to perform colony PCR screening. Percent positive clones are shown in Figure 1 for each of 15 common restriction enzymes.



Product Name	Cat. #	Size	Price
2× ExSembly™ Cloning Master Mix	M0005	10 rxns	\$169.00

Please visit www.lifesct.com/ExSembly for more information

"I have been using the ExSembly™ Cloning Master Mix for two years and have had great success in cloning a wide range of DNA fragments using this product. The product is extremely easy to use and makes cloning a very quick process. It is especially ideal to clone multiple DNA fragments simultaneously into a vector. Compared to other approaches and commercial products I have used in the past; This product's efficiency is very impressive. I highly recommend the ExSembly™ Cloning Mix."

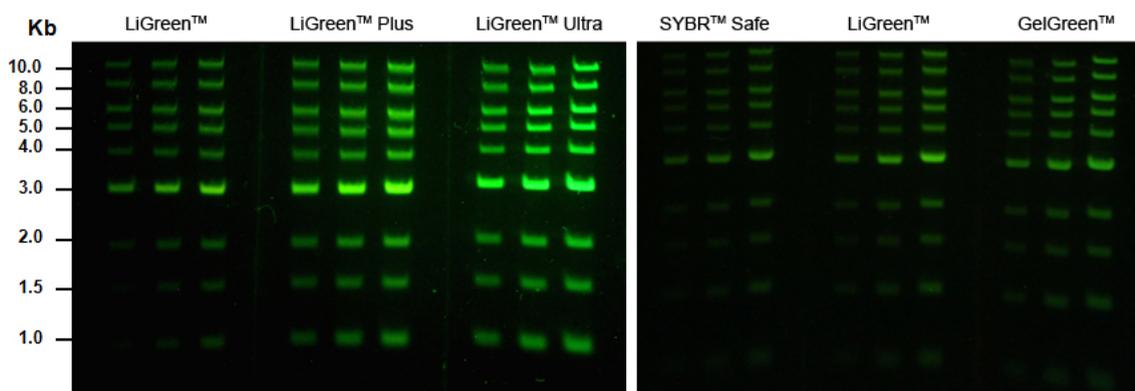
----- UMBC, Dr. Achuth Padmanabhan, Assistant Professor

LiGreen™ Nucleic Acid Gel Stains

LiGreen™ is a sensitive, stable and environmentally safe green fluorescent nucleic acid dye designed to stain either dsDNA, ssDNA or RNA in agarose gels. These next-generation fluorescent nucleic acid gel stains are designed to replace the highly mutagenic ethidium bromide (EB).

EB	LiGreen	LiGreen Plus	LiGreen Ultra	LiGreen Red
Low Sensitivity (~5 ng)	Sensitivity (~2 ng)	High Sensitivity (~0.2 ng)	Ultra Sensitivity (~60 pg)	Sensitivity (~1 ng)
Hazardous	Nonhazardous	Nonhazardous	Nonhazardous	Nonhazardous

- Safer than EB: Shown by Ames test and other tests to be non-mutagenic and non-cytotoxic.
- Ultra-sensitive: Much more sensitive than *GelGreen* and *SYBR Safe*.
- Compatible with standard blue LED and UV transilluminators.
- Use with blue light reduces mutagenesis for gel excision and subsequent cloning.



Gel stain results with LiGreen™, LiGreen™ Plus, and LiGreen™ Ultra (Left), and comparison results with SYBR Safe and GelGreen (Right).

Two-fold serial dilutions of a 1 kb DNA ladder were loaded onto each gel in 3 lanes in the amounts of 25 ng, 50 ng and 100 ng (left to right), then post-stained with LiGreen™, LiGreen™ Plus, and LiGreen™ Ultra. Results show LiGreen™ has similar sensitivity with SYBR Safe and GelGreen, LiGreen™ Plus and LiGreen™ Ultra have much better sensitivity.

Product Name	Cat. #	Size	Price
LiGreen™ DNA Gel Stain	M0049	1 ml	\$149.00
LiGreen™ Plus Nucleic Acid Gel Stain	M0050	500 µl	\$119.00
LiGreen™ Ultra Nucleic Acid Gel Stain	M0051	500 µl	\$149.00
LiGreen™ Red DNA Gel Stain	M0054	500 µl	\$99.00

Please visit www.lifesct.com/LiGreen for more information

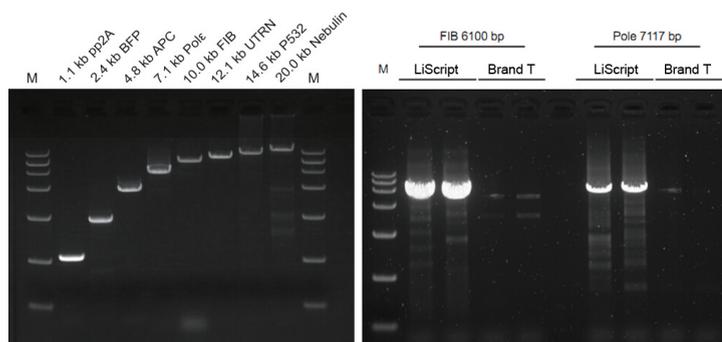
"I have been using LiGreen™ Ultra Nucleic Acid Gel Stain and dNTPs set (100mM each) more than one years, both products are of excellent quality and are cheaper than other companies, I will continue to use them."

----- NIH/NCI, Dr. Ping Yu, Staff Scientist

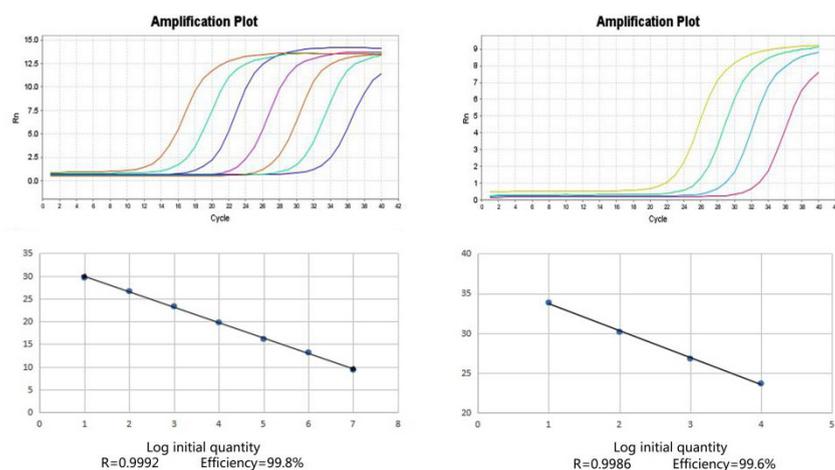
LiScript™ First-Strand cDNA Synthesis Kit

LiScript™ First-Strand cDNA Synthesis Kit contains all the components necessary for the 1st strand cDNA synthesis. The products are suitable for PCR and qPCR. The 2× RT Mix contains an optimized buffer and dNTPs. The Enzyme Mix contains the Reverse Transcriptase and the RNase inhibitor. The Oligo-(dT)₂₃ VN has a better affinity to Ploy A+ RNA than Oligo (dT)₁₈. In addition, random hexamers and gene-specific primers (GSP) are also optional.

- Based on high-effective Reverse Transcriptase: with high thermal stability ensuring the complex RNA secondary structure be denatured to obtain longer cDNA.
- A wide range of template input amount of total RNA (from 1 µg to 5 µg). Amplify cDNA fragments as long as 20 kb.
- Anchored Oligo(dT)₂₃ VN: further improves the specificity, efficiency and sensitivity of the first-strand cDNA synthesis.
- With different primer selection strategy, the first-strand cDNA products can be widely used for many applications, including cloning, hybridization, PCR amplification, and Real Time PCR.



cDNA fragments as long as 20 kb was successfully obtained from RNA templates using LiScript™ First-Strand cDNA Synthesis Kit (Left Figure). Reverse transcription was performed using 1 µg total RNA of HeLa cells or total RNA (for Nebulin) of skeletal muscle cells as templates and Oligo(dT)₂₃ VN as primers. PCR amplification was performed using 1 µl of cDNA (as template) and DNA Polymerase. LiScript™ has higher reverse transcription efficiency for complex RNA templates (Right Figure). Using 1 µg of total RNA of HeLa cells as template, reverse transcription was performed using LiScript™ and a similar product of T brand, respectively.



LiScript™ has a wide and sensitive linear reverse transcription range for qPCR. Reverse transcription was performed using 1 µg-1 pg total RNA of HeLa cells as template and random hexamers/Oligo(dT)₂₃ VN as mixed primers. qPCR amplification of ACTB gene and BR3 gene was performed using 1 µl of cDNA (as template) and LiQuant™ Green qPCR Master Mix, respectively.

Product Name	Cat. #	Size	Price
LiScript™ First-Strand cDNA Synthesis Kit (+gDNA wiper)	M0028	100 rxns	\$349.00
LiScript™ First-Strand cDNA Synthesis Kit	M0029	100 rxns	\$239.00

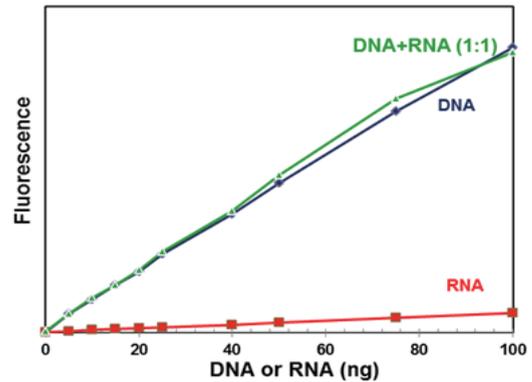
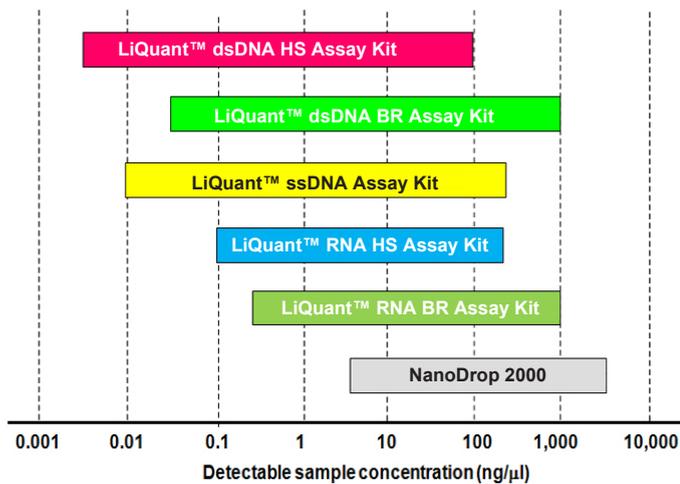
Please visit www.lifesct.com/cDNA-synthesis-kit for more information

LiQuant™ Nucleic Acid Assay Kits

LiQuant™ Nucleic Acid Assay Kits allow precise quantitation of DNA or RNA samples across a wide range of concentrations. Our new LiQuant™ NGS dsDNA assay kit are ideal for quantitating DNA samples in NGS applications.

- **Higher sensitivity:** 100 times more sensitive than absorbance assay.
- **Broad dynamic range:** over four orders of magnitude.
- **More accuracy:** unaffected by the presence of proteins, free nucleotides.
- **Easy to use:** mix-and-read format.
- **Instrument compatibility:** assay can be performed using a fluorescence plate reader, or a fluorometer.

Product Name	Target	Sensitivity	Applications
LiQuant™ dsDNA HS Assay Kit	dsDNA	10 pg/μl - 100 ng/μl	PCR products, viral DNA
LiQuant™ NGS dsDNA Assay Kit	dsDNA	10 pg/μl - 100 ng/μl	DNA samples for NGS
LiQuant™ dsDNA BR Assay Kit	dsDNA	100 pg/μl - 1000 ng/μl	Genomic and miniprep DNA samples
LiQuant™ ssDNA Assay Kit	ssDNA	20 pg/μl - 200 ng/μl	Oligo, denatured DNA, PCR products
LiQuant™ RNA HS Assay Kit	RNA	100 pg/μl - 100 ng/μl	Samples for microarray, RT-PCR
LiQuant™ microRNA Assay Kit	small RNA	0.025 ng/μl - 150 ng/μl	microRNA, siRNA



Selectivity for dsDNA using LiQuant™ dsDNA HS Assay Kit in the presence of an equal mass of RNA

Improved sensitivity with LiQuant™ Nucleic Acid Assay Kits

Product Name	Cat. #	Size	Price
LiQuant™ dsDNA BR Assay Kit	M0064	1000 rxns	\$299.00
LiQuant™ dsDNA HS Assay Kit	M0065	1000 rxns	\$299.00
LiQuant™ NGS dsDNA Assay Kit	M0066	500 rxns	\$249.00
LiQuant™ ssDNA Assay Kit	M0067	1000 rxns	\$299.00
LiQuant™ RNA HS Assay Kit	M0069	1000 rxns	\$299.00
LiQuant™ microRNA Assay Kit	M0069	1000 rxns	\$299.00

Please visit www.lifesct.com/nucleic-acid-assay-kits for more information

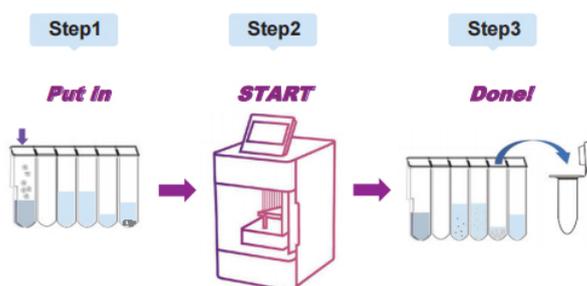
TGuide S16 Nucleic Acid Extractor

Designed for research labs, TGuide S16 Nucleic Acid Extractor can process up to 16 samples simultaneously. This unique product can automatically purify DNA/RNA from various samples of animal, plant, bacteria, fungi, etc., and extract DNA from agarose gel and PCR products. Super easy to install and operate, reliable, small but efficient and powerful!



- **Time saving and highly efficient:** It can greatly reduce the hands-on operation of nucleic acid experiments, and largely improve the laboratory work efficiency.
- **Tailored for research use:** Although compact in size, it provides automated solutions for most sample types of scientists' interests.
- **Out-of-the-box automation:** It is super easy to use, with prefilled supporting reagent cartridges and preinstalled programs. Overall, the instrument requires little effort on installation, training and maintenance.
- **Competent and reliable:** The upgraded techniques assure you the reproducible extraction of ultrapure DNA/RNA.

Super easy
to use

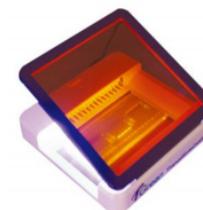


Intuitive touch screen interface
Few touch point to start



Product Name	Cat. #	Size	Price
TGuide S16 Nucleic Acid Extractor	OSE-S16-AM	1 set	\$13,500.00
TGuide Smart Magnetic Tissue DNA Kit	DP602-DE	48 preps	\$269.00
TGuide Smart Blood/Cell/Tissue RNA Kit	DP661-DE	48 preps	\$429.00

Please visit www.lifesct.com/TGuide-S16-nucleic-acid-extractor for more information



Product Name	Cat. #	Size	Price
TGear Centrifuge	OSE-MC8	1 set	\$599.00
TGrinder Handheld Homogenizer	OSE-Y50	1 set	\$699.00
Tgyrate Vortex Basic	OSE-VX-01	1 set	\$449.00
TGreen Tranilluminator	OSE-470	1 set	\$990.00

Please visit www.lifesct.com/Instruments for more information

Catalog Products

PCR, qPCR & RT-qPCR

Product Name	Cat. #	Size	Price
LiSpark™ Ultra SuFi DNA Polymerase	M0030	100 U	\$169.00
2× LiSpark™ Ultra SuFi PCR Master Mix	M0031	1 ml	\$129.00
LiTaq™ DNA Polymerase (5000 U)	M0023	1000 U	\$99.00
2× LiTaq™ Eco PCR Master Mix (+Dye)	M0034	25 ml	\$299.00
2× LiTaq™ PCR Master Mix (-Dye)	M0024-03	15 ml	\$229.00
2× LiTaq™ Plus PCR Master Mix (-Dye)	M0025-03	15 ml	\$349.00
LiQuant™ Ultra Green qPCR Master Mix	M0026	500 rxns	\$299.00
LiScript™ One Step Green RT-qPCR Kit	M0022	100 rxns	\$399.00
LiScript™ One Step Probe RT-qPCR Kit	M0033	100 rxns	\$499.00
LiDirect™ Genotyping DNA Extraction Buffer	M0014-04	400 rxns	\$79.00

Reverse Transcription & Cloning

Product Name	Cat. #	Size	Price
LiScript™ Fast RT Master Mix	M0038-05	50 rxns	\$149.00
LiScript™ Fast RT Master Mix (+gDNA wiper)	M0039-10	100 rxns	\$299.00
LiScript™ One Step RT-PCR Kit	M0022	100 rxns	\$199.00
LiClone™ Fast One Step Cloning Kit	M0008	25 rxns	\$139.00
LiClone™ Fast DNA Ligation Kit	M0009	30 rxns	\$99.00

Nucleic Acid Electrophoresis

Product Name	Cat. #	Size	Price
100 bp DNA Ladder	M0042-10	1 ml	\$99.00
1 kb DNA Ladder II	M0043-01	500 µl	\$59.00
DL2000 DNA Marker	M0046	1 ml	\$99.00
DL5000 DNA Marker	M0047	1 ml	\$99.00
DL15000 DNA Marker	M0048	1 ml	\$99.00
dNTP Set (100 mM each)	M0059-01	4×250 µl	\$129.00



Nucleic Acid Purification

Product Name	Cat. #	Size	Price
LiPure™ Gel Extraction Kit	M0035-05	50 rxns	\$79.00
LiPure™ DNA Clean-up Kit	M0036-05	50 rxns	\$99.00
LiPure™ Plasmid Mini Kit	M0037-50	50 rxns	\$89.00
LiPure™ Endotoxin-Free Plasmid Maxi Kit	M0019	10 rxns	\$249.00
LiPure™ Blood DNA Purification Kit	M0101	200 rxns	\$299.00
LiPure™ cfDNA Purification Kit	M0103	50 rxns	\$499.00
LiPure™ Tissue DNA Purification Kit	M0105	50 rxns	\$129.00
LiPure™ Plant DNA Purification Kit	M0107	50 rxns	\$159.00
LiPure™ Cell DNA Purification Kit	M0109	50 rxns	\$109.00
LiPure™ Bacteria DNA Purification Kit	M0111	50 rxns	\$159.00
LiPure™ Stool DNA Purification Kit	M0013	50 rxns	\$189.00
LiPure™ FFPE DNA Purification Kit	M0115	50 rxns	\$129.00
LiPure™ Exosome DNA Purification Kit	M0119	25 rxns	\$199.00
LiPure™ PCR Clean-up Beads	M0130	5 ml	\$129.00

Please visit www.lifesct.com/nucleic-acid-purification for more information

Labeled Nucleotides

Product Name	Cat. #	Size	Price
5-Aminoallyl-dUTP	M0070	100 µl	\$149.00
5-Aminoallyl-UTP	M0071	100 µl	\$149.00
Biotin-11-dUTP	M0072	50 µl	\$199.00
Biotin-11-UTP	M0073	50 µl	\$199.00
Biotin-14-dCTP	M0074	50 nmol	\$369.00
5-FAM-dUTP	M0075	25 µl	\$169.00
5-FAM-X-dUTP	M0076	25 µl	\$199.00
5-FAM-UTP	M0077	25 µl	\$169.00
5-FAM-X-UTP	M0078	25 µl	\$199.00
LiFluor™ 488-X-dUTP	M0079	25 µl	\$299.00
LiFluor™ 555-X-UTP	M0082	25 µl	\$299.00
LiFluor™ 647-X-dUTP	M0087	25 µl	\$299.00

Please visit www.lifesct.com/labeled-nucleotides for more information

Molecular Biology Services

Site-directed Mutagenesis

Fragment Length	Starting Price	Turnaround Time
<2000bp	\$119.00	10-12 business days
2000bp - 3000bp	\$149.00	12-15 business days
3001bp - 5000bp	\$229.00	15-18 business days
>5000bp	Quote	Quote

Please visit www.lifesct.com/site-directed-mutagenesis for more information

PCR Cloning & Subcloning

Fragment Length	Starting Price	Turnaround Time
<1000bp	\$119.00	10-12 business days
1000bp - 2000bp	\$149.00	12-14 business days
2001bp - 3000bp	\$199.00	14-16 business days
>3000bp	Quote	Quote

Please visit www.lifesct.com/PCR-cloning-subcloning for more information

Plasmid DNA preparation

Research Grade

Quantity	Turnaround Time	Starting Price
500 µg	8-10 business days	\$119.00
1 mg	10-12 business days	\$129.00
2 mg	10-12 business days	\$169.00
10 mg, High-copy	12-15 business days	\$349.00
10 mg, High-copy	12-15 business days	\$549.00
>10 mg	Quote	Quote

Please visit www.lifesct.com/plasmid-preparation for more information.

Virus Packaging Services

Service	Turnaround Time	Starting Price
Adenovirus Packaging	3-4 weeks	Quote
rAAV Packaging	1-2 weeks	Quote
Lentivirus Packaging	1-2 weeks	Quote

Please visit www.lifesct.com/virus-packaging-services for more information



RNA-Seq

Transcriptome profiling with RNA-Seq is a powerful tool for analyzing gene expression levels within an individual sample as well as for comparing differential gene expression between multiple samples. Additionally, RNA-Seq can detect the presence of novel isoforms, alternatively spliced transcripts; potential gene fusion events can also be detected through analysis of RNA-seq data.

- Unsurpassed data quality with a guaranteed Q30 score $\geq 80\%$ that exceeds Illumina's official guarantee.
- Comprehensive data analysis using widely accepted mainstream software and mature in-house pipeline to discover novel transcripts, differential expressions, and function annotations.
- Free, powerful bioinformatic software that enables LifeSct customers to easily access and visualize data analysis results and annotations through a user-friendly interface.
- Cost-effective & short turnaround time

mRNA seq

Sample requirements	Extracted RNA, Fresh frozen tissue or cell pellet, FFPE tissue on slides (extra QC may be needed) 1 μ g or more
Sequencing platforms	Illumina NextSeq, Illumina HiSeq
Deliverables	Raw data as FASTQ files Quality control results Complete data analysis available
Estimated turnaround time	28-42 days

Please visit www.lifesct.com/mRNA-seq for more information.

Single-cell RNA seq (scRNA-seq)

Sample requirements	Extracted RNA, Fresh frozen tissue or cell pellet, FFPE tissue on slides (extra QC may be needed)
Sequencing platforms	Illumina NextSeq, Illumina HiSeq
Recommended Sequencing depth	Starting at 40M PE reads
Deliverables	Raw data as FASTQ files Quality control results Complete data analysis available
Estimated turnaround time	35-42 days

Please visit www.lifesct.com/scRNA-seq for more information.

DNA-seq

Human whole genome sequencing enables researchers to catalog the genetic constitution of individuals and capture all the variants present in a single assay. It is applied to the study of cancer and a variety of diseases, as well as human population evolution studies and pharmacogenomics.

- State-of-the-art NGS technologies: LifeSct is a leader in sequencing capacity using state-of-the-art technology, including the latest generation Illumina HiSeq X Ten.
- Highest data quality: We guarantee a Q30 score $\geq 80\%$, exceeding Illumina's official guarantee of $\geq 75\%$.
- Extraordinary informatics expertise: LifeSct uses its cutting-edge bioinformatics pipeline and internationally recognized best-in-class software to provide customers highly reliable "publication-ready data".
- Cost-effective & short turnaround time.

Whole Genome Sequencing (WGS)

Sample requirements	FFPE Formalin-Fixed, Paraffin-Embedded (FFPE) Unstained Slides Blood samples High quality genomic human DNA: a minimum of 1.0 microgram
Sequencing platforms	Illumina MiSeq, Illumina NextSeq, Illumina HiSeq X Ten
Genes/regions covered	Human whole genome or other species
Recommended Sequencing depth	Mean depth of coverage: $\geq 30x$
Deliverables	FASTQ, BAM, and VCF files (optional)
Estimated turnaround time	30-42 days

Please visit www.lifesct.com/WGS for more information.

Whole Exome Sequencing (WES)

Sample requirements	Extracted genomic DNA: a minimum of 500 ng as quantified by Qubit 2.0
Sequencing platforms	Illumina NextSeq, Illumina HiSeq
Genes/regions covered	Human exons in approximately 22,000 genes
Recommended Sequencing depth	Mean depth of coverage: $\geq 100\times$ 90% of exons covered at $\geq 20\times$ depth
Deliverables	FASTQ, BAM, and VCF files; Variant annotation
Estimated turnaround time	28-35 days

Please visit www.lifesct.com/WES for more information.



Whole Genome Bisulfite Sequencing (WGBS)

Sample requirements	High quality genomic human DNA: a minimum of 1.0 microgram FFPE Formalin-fixed, Paraffin-Embedded (FFPE) Unstained Slides
Sequencing platforms	Illumina HiSeqX
Genes/regions covered	Human whole genome
Recommended Sequencing depth	Mean depth of coverage: $\geq 30\times$
Deliverables	FASTQ, BAM and VCF files
Estimated turnaround time	30-42 days

Please visit www.lifesct.com/WGBS for more information.

Chromatin Immunoprecipitation Sequencing (ChIPseq)

Sample requirements	Immuno-precipitated DNA: a minimum of 100 nanogram as quantified by Qubit 2.0
Sequencing platforms	Illumina NextSeq, Illumina HiSeq
Genes/regions covered	Immuno-precipitated DNA
Recommended Sequencing depth	Starting at 40M PE reads
Deliverables	FASTQ files
Estimated turnaround time	28-35 days

Please visit www.lifesct.com/ChIPseq for more information.

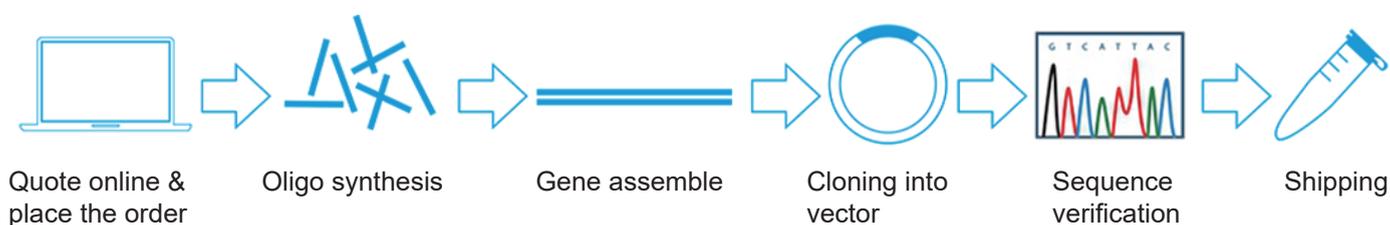
Other NGS Services

Service	Turnaround Time
RADseq	35-42 days
Double Digest RADseq	35-42 days
Customized Gene Panels	35-42 days
Metagenomics	28-35 days
16S rRNA sequencing	2 weeks
Metatranscriptomics	35-42 days
Human Leukocyte Antigen (HLA) typing	28-35 days
Clinical Biomarker Services	Quote

Gene Synthesis

As a leader in synthetic biology, with the world's top-level expert team, most advanced equipment, and sophisticated gene design and optimization software, LifeSct can synthesize genes of any length and complexity. We can synthesize and clone any DNA sequences (GC/AT rich sequences, repeated sequences, large sequences, toxic sequences, etc.) into any vectors required. Genes up to 3,000 bp can be synthesized in 2 weeks. We have synthesized thousands of genes for the life scientists in USA.

- Advanced synthetic technology: Synthesize any sequences, including repeated sequences, GC-rich or AT-rich sequences, toxic sequences.
- High quality: Our gene fragments leading the highest cloning success rate and lowest error rate in the market.
- Fast delivery service: Deliver genes less than 3kb within 2 weeks.
- Easy-to-use online ordering system: Just submit your gene sequences through our online quote system, we will finish the rest of the steps.



Gene Length	Starting Price	Turnaround Time
<600bp	\$120.00/gene	10-12 business days
600bp - 1500bp	\$0.20/bp	10-13 business days
1501bp - 3000bp	\$0.22/bp	12-15 business days
>3000bp	Quote	Quote

Please visit www.lifesct.com/gene-synthesis for more information

Gene Fragments

Fragment Length	Starting Price	Turnaround Time
151bp - 500bp	\$69.00	4-7 business days
501bp - 750bp	\$99.00	4-7 business days
701bp - 1000bp	\$129.00	5-8 business days
1001bp - 1250bp	\$149.00	6-9 business days

Please visit www.lifesct.com/gene-fragments for more information

*“Our lab started to use the high-quality services from LifeSct, including the **gene synthesis** and the **gene fragments** since 2017. We are always happy with the great quality of the services, the reasonable price, the prompt shipment and the good communication from LifeSct. More impressively, your LiTaq™ PCR mix is robust and cost-effective. Thanks for continuing to produce great products and provide excellent services!”*

----- NIH/NICHD, Dr. Chune Cao, Lab Manager

Special Oligo Synthesis

Labeled Oligo Synthesis

Quantity	Quality	Purification	Turnaround Time
10 - 80mer	25 nmol/50 nmol	PAGE/HPLC	Quote

Large-scale Oligo Synthesis

Oligo Length	Minimum Quantity	Purification	Starting Price	Turnaround Time
10 - 60mer	> 48 oligos	DSL, 25 nmol	\$0.19/base	5-7 business days
61 - 80mer	> 48 oligos	DSL, 25 nmol	\$0.25/base	5-7 business days
10 - 60mer	> 48 oligos	DSL, 25 nmol	\$0.22/base	5-7 business days
61 - 80mer	> 48 oligos	DSL, 25 nmol	\$0.30/base	5-7 business days

UltraLength Oligo Synthesis

Oligo Length	Minimum Quantity	Purification	Starting Price	Turnaround Time
81 - 100mer	> 10 oligos	DSL, 25 nmol	\$0.55/base	5-7 business days
101 - 120mer	> 10 oligos	DSL, 25 nmol	\$0.89/base	5-7 business days
81 - 100mer	> 10 oligos	DSL, 25 nmol	\$0.79/base	7-9 business days
101 - 120mer	> 10 oligos	DSL, 25 nmol	\$1.00/base	7-9 business days

Please visit www.lifesct.com/oligo-synthesis for more information.

Peptide Synthesis

LifeSct provides high-quality peptides with a 95% peptide synthesis success rate, well above the industry standard of 75%. We offer a comprehensive range of Peptide Synthesis Services from peptide sequence design to complex peptide modifications. We provide the highest quality peptide synthesis at the most competitive prices. All our peptides come with a complete quality control package, which includes HPLC and MS Analysis.

- High Success Rate: >98%
- Fast Turnaround Time: 2-3 weeks
- Length: up to 200 amino acids
- Comprehensive Modifications: phosphorylation, methylation, acetylation, and amidation *etc.*

Quantity	Starting Price	Turnaround Time
Peptide Synthesis	Quote	Quote
Peptide Modification	Quote	Quote
Peptide Library	Quote	Quote

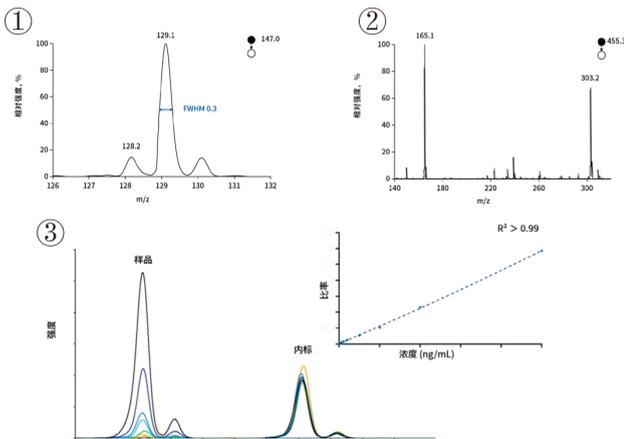
Please visit www.lifesct.com/peptide-synthesis for more information.

Cell Mini MS System

Cell mini MS system uses in-situ ionization kit to achieve rapid on-site detection, with fast analysis speed and convenient pre-processing. It can be used in rapid detection applications such as biomedicine, clinical medicine, and public security, etc. Cell also has high analytical performance, allowing for analysis of the content and molecular structure of the analyte. Using DAPI technology, coupled with atmospheric pressure ionization source and in-situ ionization kit, it has high sensitivity, accuracy, and determinacy, achieving the ultimate miniaturization of mass spectrometry while maintaining laboratory-grade quality performance.

High accuracy and sensitivity

- Utilizes high-precision linear ion trap mass analyzer
- Enables tandem mass spectrometry analysis in multiple scan modes
- Detects mass range from m/z 50 to 1000 in both positive and negative modes
- Achieves unit resolution with a peak width ≤ 0.5 Da
- Sensitivity can reach 0.5 ng/mL
- Quantitative accuracy better than 15%



In situ ionization reagent kit

- Ionizes samples directly in an open environment
- No need for complex sample pre-processing by professionals
- No time-consuming separation process
- Enables fast in situ analysis of samples with complex matrices
- Disposable reagent kit reduces contamination and costs



One-touch intelligent operation

- Touchscreen operation
- Supports rapid analysis of mass spectrometry data with cloud database
- Automatic retrieval of scan methods, automatic mass analysis, automatic data collection, automatic data processing, automatic result feedback, and other functions

Ultimate portability

- Non-continuous atmospheric pressure interface (DAPI) reduces the need for vacuum pumps
- Extremely compact size of 33.3×23.5×14.6 cm and weight of 8.5 kg
- Low power consumption, with built-in battery lasting up to 2 hours
- Provides test results within 3 minutes

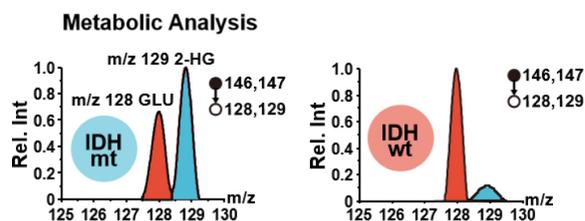
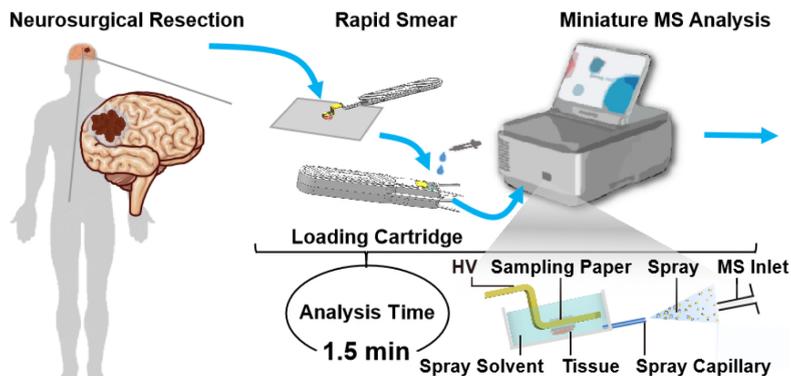
Product Name	Cat. #	Size	Price
PURSPEC™ Cell Mini MS System	C0001	1 set	Quote

Please visit www.lifesct.com/cell-mini-MS-system for more information

Clinical Diagnosis - Intraoperative diagnosis of IDH mutations in glioma

The mutated IDH protein can reduce α -ketoglutarate (α -KG) to 2-hydroxyglutarate (2-HG), and the abnormally produced 2-HG can promote tumorigenesis. 2-HG has the characteristics of specificity and inertness, and is suitable for mass spectrometry detection. It has unique advantages for rapid intraoperative diagnosis of IDH mutations and boundary judgment.

- More efficient: IDH mutation results can be obtained in only 1.5 minutes
- More accurate: sensitivity and specificity are both higher than 90%
- More information: More biological information can be obtained by testing directly with fresh tissue



Precision Medicine - Blood concentration monitoring



Voriconazole, one of the second-generation triazoles, is the first-line treatment for invasive fungal infections, but it has a narrow therapeutic window, nonlinear pharmacokinetics, and significant inter-individual variability. Blood concentration monitoring has been widely recommended to guide voriconazole dose adjustment and optimize clinical treatment.

- Convenience: no complicated pre-processing required, operation is more convenient
- Fast: only 5 minutes from sample collection to report acquisition
- Accurate: high consistency with LC-MS detection

IntactProtein™ Cell-Tissue Lysis Kit

IntactProtein™ Cell-Tissue Lysis Kit includes a uniquely formulated protein lysis and extraction buffer mix. This innovative and proprietary reagent mix will greatly facilitate researchers to extract proteins of all sizes from both cultured mammalian tissues and cells.

- **All-in-one formula:** No protease/PTM inhibitors needed; no sonication required.
- **Ready-to-use protocol:** Simply mix Reagents A & B; extraction in as little as 15 min.
- **Ultimate solution for large proteins:** Near-complete extraction; no fragmentation.
- **Assurance and peace of mind:** No loss of protein PTMs such as phosphorylation.
- **All-around performance:** Suitable for mammalian cells and tissues.

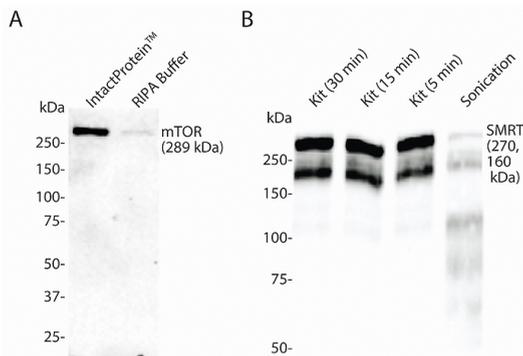


Figure 1. IntactProtein™ lysis kit shows superior performance in extracting large-sized proteins compared to RIPA buffer. (A) HeLa cells were lysed using IntactProtein™ lysis kit or RIPA buffer, and 50 µg of total lysates were subjected to immunoblotting using anti-mTOR (289 kDa) antibody. (B) HT1080 cell lysates (50 µg) were lysed on ice, processed as indicated, and blotted with anti-SMRT (160, 270 kDa) antibody. Note that sonication fragmented SMRT into smaller peptides.

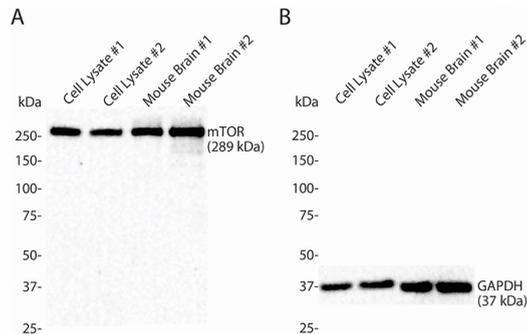


Figure 2. IntactProtein™ lysis kit performs equally well on protein extraction from tissues and cells. (A) HeLa cells and mouse brains (in duplicate) were lysed using IntactProtein™ lysis kit. 50 µg of total lysates were subjected to immunoblotting using anti-mTOR (289 kDa) antibody. (B) The same lysates in (A) were blotted with anti-GAPDH (37 kDa) antibody. Note that IntactProtein™ lysis kit is suitable to extract proteins of large- and small-molecular weights, and from cells and tissues.

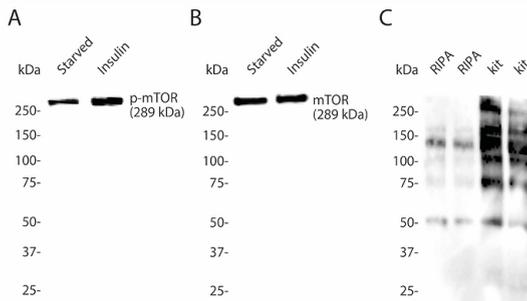


Figure 3. IntactProtein™ lysis kit preserves protein post-translational modifications (PTMs). (A-B) HeLa cells were serum starved for 16 h and stimulated with insulin (150 nM) for 5 min before harvest using IntactProtein™ lysis kit. 50 µg of total lysates were subjected to immunoblotting using anti-phospho-mTOR (Ser2448) (A) and anti-mTOR (B) antibodies, respectively. (C) HeLa cells were lysed using RIPA buffer or IntactProtein™ lysis kit. Cell lysates were blotted using anti-O-Linked β-N-acetylglucosamine (O-GlcNAc) (glycosylation) antibody.

Product Name	Cat. #	Size	Price
IntactProtein™ Cell-Tissue Lysis Kit	415M	50 ml	\$120.00

Please visit www.lifesct.com/cell-lysis-kit for more information

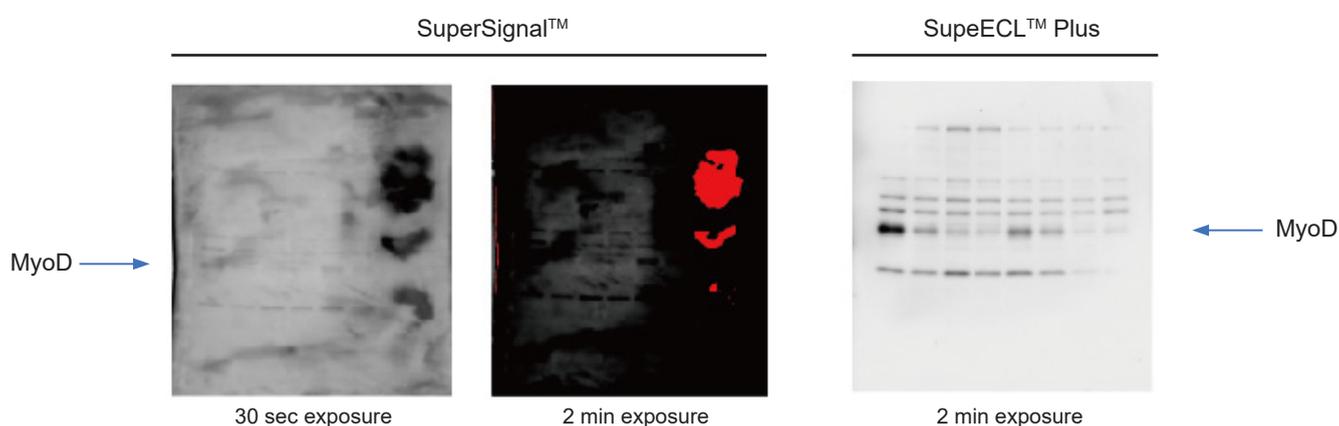
"We have tested your IntactProtein™ Cell-Tissue Lysis Kit in liver, adipose tissue, and cultured cells. It worked really well! Extracting proteins from fat is always a headache. Your buffer gave us high protein yields and sharp protein bands. We'd like to switch to your buffer"

----- Columbia University, Dr. Qiang Li, Assistant Professor

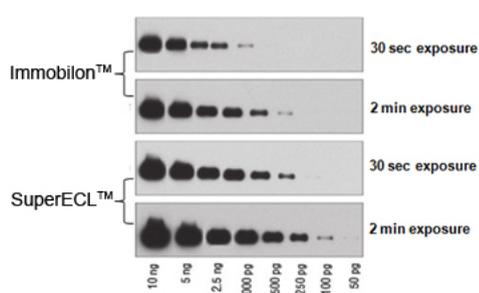
SuperECL™ Western Blotting Detection Kits

SuperECL™ Plus Western Blotting Detection Kit is a super sensitive, luminol-based enhanced chemiluminescent substrate for the detection of horseradish peroxidase (HRP) on immunoblots. The kit enables femtogram detection of antigen by oxidizing luminol in the presence of HRP and peroxide.

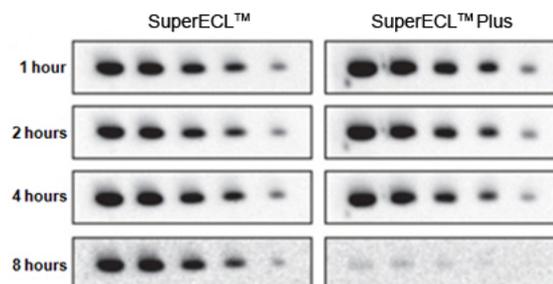
- High sensitivity: Detect low-picogram to high-femtogram amounts of target protein on nitrocellulose or PVDF membrane.
- High signal stability: Incubated blots provide stable signal duration over 4 hour time period.
- Cost-effective: Use much less antibody.



The comparison of SuperECL™ plus and SuperSignal™ (Thermo) on exposure



The comparison of exposure time of SuperECL™ with Immobilon™ (Millipore)



The comparison of signal duration of SuperECL™ with SuperECL™ Plus

Product Name	Cat. #	Size	Price
SuperECL™ Western Blotting Detection Kit	M0013-05	2×50 ml	\$149.00
SuperECL™ Western Blotting Detection Kit	M0013-25	2×250 ml	\$399.00
SuperECL™ Plus Western Blotting Detection Kit	M0053-05	2×50 ml	\$249.00
SuperECL™ Plus Western Blotting Detection Kit	M0053-10	2×100 ml	\$389.00

Please visit www.lifesct.com/SuperECL for more information

"I have been using LifeSct's SuperECL Western Blotting Detection Kit for a while and recently also start using LifeSct's SuperECL Plus Western Blotting Detection Kit product. Both products work perfectly and the results are even better than pico and femto level products from the major brand I used before. I am very happy with these wonderful products."

----- NIH/NHLBI, Dr. Pingyuan Wang, Staff Scientist

KO/KD Validated Antibodies

GenuIN is a pioneer in validating antibodies using proprietary gene knockdown (KD) and/or knockout (KO) technologies. We rigorously test the antibodies you are planning to use in your research and strive to satisfy your needs for high-quality antibodies. Here are some examples illustrating how we performed antibody testing.

- Validated by both positive and negative (KO or KD) samples.
- 100% satisfaction guarantee or money back.
- Small scale package (20 µl) with affordable price.

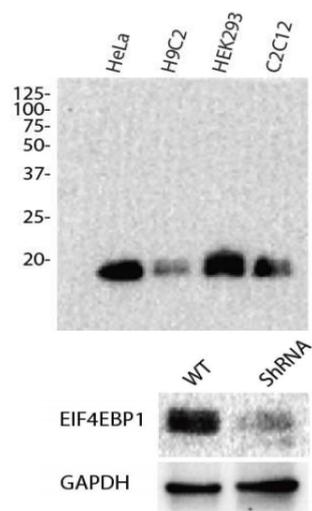


Fig.1. WB results. Top: EIF4EBP1 expression in various cell lines. Bottom: EIF4EBP1 knockdown (KD) in HeLa cells by ShRNA.

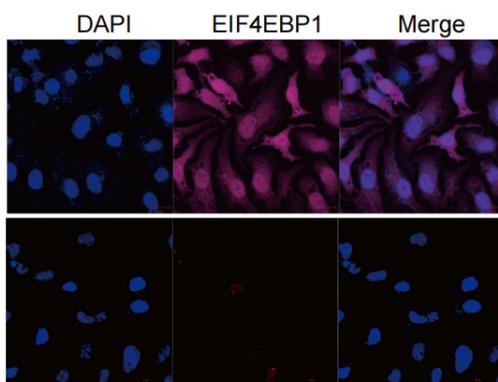


Fig.2. Immunocytochemical staining of HeLa cells with EIF4EBP1 antibody. Top panel: wild type; Bottom panel: shRNA knockdown. Nuclei were stained blue with DAPI.

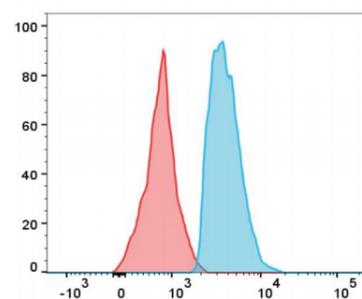


Fig.3. Flow cytometry with WT (blue) and EIF4EBP1 shRNA KD (red) HeLa cells. X axis: EIF4EBP1-Alexa Fluor® 647; Y axis: % cells.

Product Name	Application	Cat. #	Size	Price
BMI1 Proto-Oncogene rabbit polyclonal Antibody	WB/IF/F	1531	20 µl	\$149.00
Catalase rabbit polyclonal Antibody	WB/IF	1179	20 µl	\$149.00
Catenin Beta 1 rabbit polyclonal Antibody	WB/IF/F	1711	20 µl	\$149.00
Discoidin Domain Receptor Tyrosine Kinase 1 rabbit polyclonal Antibody	WB/IF	2261	20 µl	\$149.00
Euchromatic Histone Lysine Methyltransferase 2 rabbit polyclonal Antibody	WB/IF	2352	20 µl	\$149.00
Eukaryotic Translation Initiation Factor 4E Binding Protein 1 rabbit polyclonal Antibody	WB/IF/F	2361	20 µl	\$149.00
EPH Receptor A2 rabbit polyclonal Antibody	WB/IF	2632	20 µl	\$149.00
Enhancer of Zeste 2 Polycomb Repressive Complex 2 Subunit rabbit polyclonal Antibody	WB/IF	2932	20 µl	\$149.00
CASP3 Monoclonal Antibody	WB	81173	20 µl	\$149.00
HIF1A Polyclonal Antibody	WB/IC/F	3321	20 µl	\$149.00

Please visit www.lifesct.com/KO-KD-validated-antibodies for more information



Flow Cytometry Antibodies

Product Name	Cat. #	Size	Price
Purified Anti-Human CD4 Antibody	FD0002	25 µg	\$139.00
Purified Anti-Human CD8a Antibody	FD0003	25 µg	\$139.00
Purified Anti-Mouse CD4 Antibody	FD0051	50 µg	\$139.00
Purified Anti-Human CD19 Antibody	FD0065	25 µg	\$149.00
FITC Anti-Human CD45 Antibody	FD0069	20 T	\$149.00
AF488 Anti-Human IL-10 Antibody	FD2449	20 T	\$279.00
EV450 Anti-Human CD15 Antibody	FD2461	20 T	\$279.00
PE/TR Anti-Human CD16 Antibody	FD2462	20 T	\$279.00
PE/TR Anti-Human CD25 Antibody	FD2463	20 T	\$279.00
ER780 Anti-Human CD38 Antibody	FD2464	20 T	\$279.00
FITC Anti-Mouse CD209b Antibody	FD2481	20 T	\$279.00
AF488 Anti-Mouse CD107a Antibody	FD2536	20 T	\$279.00
AF647 Anti-Mouse CD36 Antibody	FD2544	25 µg	\$279.00
AF488 Anti-Mouse CD162 Antibody	FD2577	20 T	\$289.00

Please visit www.lifesct.com/flow-cytometry-antibodies for more information

Secondary Antibodies

Product Name	Cat. #	Size	Price
Goat Anti-Chicken IgY (H&L) HRP	FD9345	100 µl	\$99.00
Goat Anti-Human IgG (H&L) HRP	FD9346	100 µl	\$99.00
Goat Anti-Mouse IgG (H&L) HRP	FD9347	100 µl	\$99.00
Goat Anti-Pig IgG (H&L) HRP	FD9348	100 µl	\$99.00
Goat Anti-Rabbit IgG (H&L) HRP	FD9349	100 µl	\$99.00
Rabbit Anti-Bovine IgG (H&L) HRP	FD9350	100 µl	\$99.00
Rabbit Anti-Cat IgG (H&L) HRP	FD9351	100 µl	\$99.00
Rabbit Anti-Chicken IgY (H&L) HRP	FD9352	100 µl	\$99.00
Rabbit Anti-Dog IgG (H&L) HRP	FD9353	100 µl	\$99.00
Rabbit Anti-Donkey IgG (H&L) HRP	FD9354	100 µl	\$99.00
Rabbit Anti-Duck IgY (H&L) HRP	FD9355	100 µl	\$99.00
Rabbit Anti-Goat IgG (H&L) HRP	FD9356	100 µl	\$99.00

Please visit www.lifesct.com/secondary-antibodies for more information

ELISA Kits

Product Name	Cat. #	Size	Price
Rat Albumin (ALB) ELISA Kit	RD0001	96 T	\$299.00
Human Interferon Gamma (IFNg) ELISA Kit	RD0002	96 T	\$329.00
Rat Interleukin 4 (IL4) ELISA Kit	RD0004	96 T	\$349.00
Mouse Epidermal Growth Factor (EGF) ELISA Kit	RD0007	96 T	\$359.00
Mouse Adiponectin (ADP) ELISA Kit	RD0008	96 T	\$359.00
Human Insulin Like Growth Factor 1 (IGF1) ELISA Kit	RD0012	96 T	\$359.00
Mouse Placenta Growth Factor (PLGF) ELISA Kit	RD0014	96 T	\$359.00
Human Interleukin 15 (IL15) ELISA Kit	RD0020	96 T	\$369.00
Mouse Albumin (ALB) ELISA Kit	TD0042	96 T	\$359.00
Human Myoglobin (MYO) ELISA Kit	TD0067	96 T	\$389.00
Human Interleukin 2 (IL2) ELISA Kit	TD0075	96 T	\$389.00
Mouse Interferon Alpha (IFNa) ELISA Kit	TD0083	96 T	\$409.00
Mouse Resistin (RETN) ELISA Kit	TD0094	96 T	\$419.00
Human Osteopontin (OPN) ELISA Kit	TD0119	96 T	\$429.00
Rat Galectin 1 (GAL1) ELISA Kit	TD0131	96 T	\$439.00
Mouse Clusterin (CLU) ELISA Kit	TD0149	96 T	\$439.00

Please visit www.lifesct.com/ELISA-kits for more information

Assay Kits

Product Name	Cat. #	Size	Price
Semicarbazidehydro chloride (AMAZ) ELISA Kit	TD9948	96 T	\$699.00
Furazolidone (AOZ) ELISA Kit	TD9949	96 T	\$699.00
Nitrofurazone (SEM) ELISA Kit	TD9950	96 T	\$699.00
Nitrofurantoin (AHD) ELISA Kit	TD9951	96 T	\$699.00
Sulfamethoxydiazine (SMD) ELISA Kit	TD9952	96 T	\$699.00
Sulfaquinoxaline (SQX) ELISA Kit	TD9953	96 T	\$699.00
Sulfadiazine (SDZ) ELISA Kit	TD9954	96 T	\$699.00
Sulfathiazole (ST) ELISA Kit	TD9955	96 T	\$699.00
Sulfamethoxazole (SMZ) ELISA Kit	TD9956	96 T	\$699.00
Sulfadimethoxine (SDM) ELISA Kit	TD9957	96 T	\$699.00

Please visit www.lifesct.com/assay-kits for more information



Protein Detection

Product Name	Cat. #	Size	Price
Proteinase K	C0114	2 ml	\$99.00
Prestained Protein Marker	C0115	2×500 µl	\$119.00
Coomassie® Blue Fast Stain	C0116	1 L	\$79.00
SuperLumin™ Protein Gel Stain	C0117	1 ml	\$129.00
Phosphoprotein Gel Stain	C0118	500 ml	\$189.00
Phosphoprotein Destain Solution	C0119	2×500 ml	\$99.00
Bradford Protein Assay Kit	C0120	500 ml	\$79.00
BCA Protein Assay Kit	C0121	500 ml	\$99.00

Please visit www.lifesct.com/protein-detection for more information

Protein Expression

Recombinant protein expression is widely used by life scientists for a variety of purposes. Bacteria, Baculovirus/insect, and Mammalian cells, are three main expression systems, available today giving researchers various choices to find the best one for their specific application. As a leading provider of a comprehensive suite of recombinant protein and antibody services, LifeSct seeks to partner with scientists worldwide to accelerate scientific discovery. Our one-stop expression platform ensure the delivery of high-yield & purity products with flexible, cost-effective packages in the least amount of time.

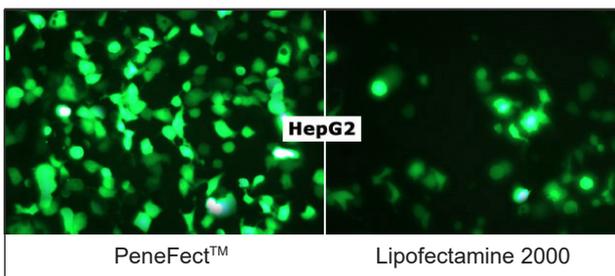
Bacterial Protein Expression	<ul style="list-style-type: none"> • 4-6 weeks (From gene synthesis to purified proteins) • Successfully delivered 10,000+ projects, >95% Success rate • Large capacity: High-throughput & Large-scale services
Mammalian Cell Protein Expression	<ul style="list-style-type: none"> • High Throughput Antibody From 2 weeks • Various packages: from µg to kg
Yeast Protein Expression	<ul style="list-style-type: none"> • LifeSct has developed a platform that produces humanized antibodies in yeast expression system.
Baculovirus/Insect Protein Expression	<ul style="list-style-type: none"> • Our advanced protein platform considers promoters, optimal copies of vector per cell, inducibility, signal peptides, and cellular location, which are essential for high-level recombinant protein production.

Please visit www.lifesct.com/protein-expression for more information

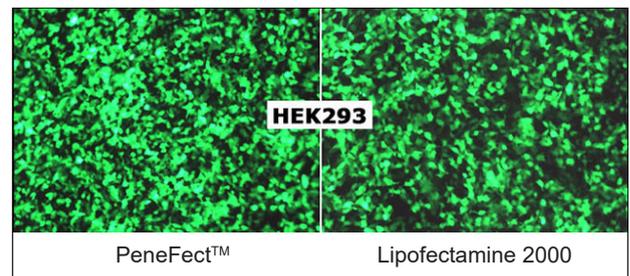
Cell Transfection Reagents

Based on the unique polymer synthesis technologies, we are currently developing and manufacturing four categories of DNA/siRNA transfection reagents, which show distinct transfection characteristics compared with the leading products in the market.

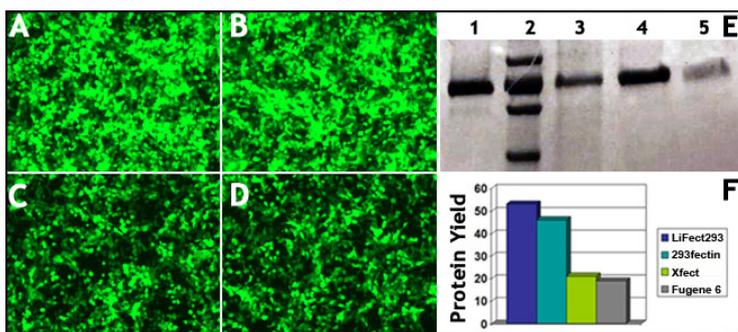
Reagents	Key Features	Tranfection Type	Replacement
<i>PeneFect</i>	> Simple & robust transfection procedure > Cost-effective	DNA	<i>Lipofectamine 2000</i>
<i>LiFect293</i>	> Best for suspension 293 cells > High levels of recombinant protein production	DNA	<i>293fectin</i>
<i>GreenFect</i>	> Superior transfection efficiency for difficult-to-transfect cells	DNA, RNA DNA/RNA	<i>Lipofectamine 3000</i>



Transfection efficiency comparison of PeneFect™ vs. Lipofectamine 2000 on HepG2 cells. HepG2 cells were transfected with GFP vector (pEGFP-N3) by PeneFect™ (left panel) and Lipofectamine 2000 (right panel) respectively. The cells were visualized by Nikon Eclipse Fluorescence microscope 24 hours post transfection.



Transfection efficiency comparison of PeneFect™ vs. Lipofectamine 2000 on HEK293FT cells. HEK-293T cells were transfected with GFP vector (pEGFP-N3) by PeneFect™ (left panel) and Lipofectamine 2000 (right panel) respectively. The cells were visualized by Nikon Eclipse Fluorescence microscope 24 hours post transfection.



Comparison of LiFect293™ reagent vs. 293fectin, Xfect and Fugene 6 transfection reagents on protein production with suspension 293F cells. 30 ml of 293F cell cultured in standard culture medium was transfected with pEGFP-6xHis plasmid using LiFect293™ Transfection Reagent (20 µg plasmid DNA), 293Fectin (30 µg plasmid DNA), Xfect (30 µg plasmid DNA) and Fugene 6 (30 µg plasmid DNA) per manufacturers' standard transfection protocols. GFP fluorescence was visualized 48 hours post transfection (left panel) with A for LiFect293, B for 293fectin, C for Xfect and D for Fugene 6. The 6xHis tagged GFP protein was then purified via Ni-NTA affinity column. 5 µl of 1st elution fraction was resolved on SDS-PAGE followed by Coomassie Brilliant Blue staining (right upper panel E) with the lane 1 for LiFect293, lane 2 for protein marker, lane 3 for Xfect, lane 4 for 293fectin and lane 5 for Fugene 6. The protein yield was quantified via spectrometer (right lower panel F).

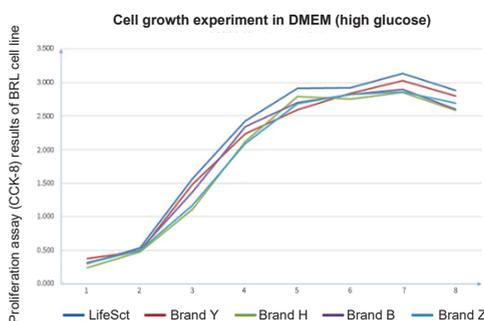
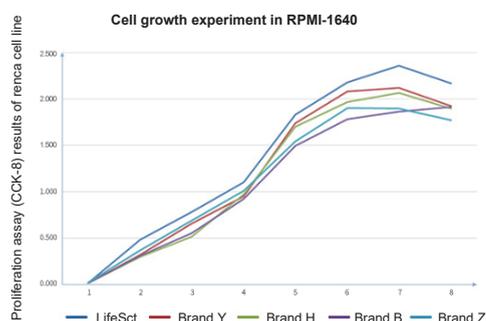
Product Name	Cat. #	Size	Price
PeneFect™ Transfection Reagent	M0001-01	1 ml	\$149.00
LiFect293™ Transfection Reagent	M0002-01	1 ml	\$199.00
GreenFect™ Transfection Reagen	M0004-01	0.75 ml	\$299.00

Please visit www.lifesct.com/transfection-reagents for more information

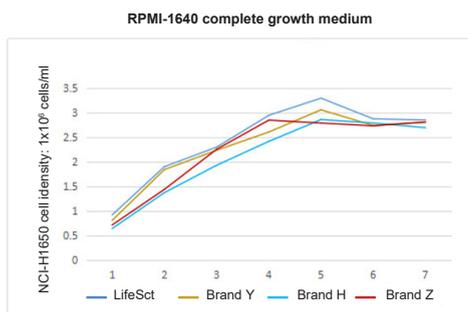
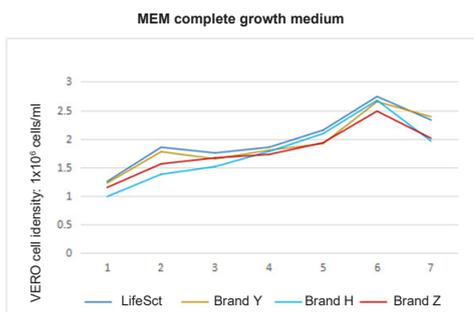
Cell Culture Media

Cell culture media have been rigorously tested on nearly 1,000 different types of cells. The basal media contain various amino acids, vitamins, carbohydrates, inorganic salt ions and other nutrients required for cell growth to maintain good growth. Pricella basal medium products cover 17 major categories, including nearly 250 products. All products have passed a strict quality control system and have been subjected to appearance tests, microbiological tests, osmotic pressure tests, pH tests and cell growth verification tests to ensure the stability of the quality of the culture medium.

- **Reliable quality:** The media have been verified by more than 1,000 types of cells through millions of culture experiments.
- **Full range:** The media have been verified by more than 1,000 types of cells through millions of culture experiments.
- **Custom service:** For special demands, we are happy to provide customers with custom services.
- **Sufficient inventory:** Sufficient inventory and ready for shipment.



Growth Curves of Cells in Basal Media



Growth Curves of Cells in Complete Growth Media

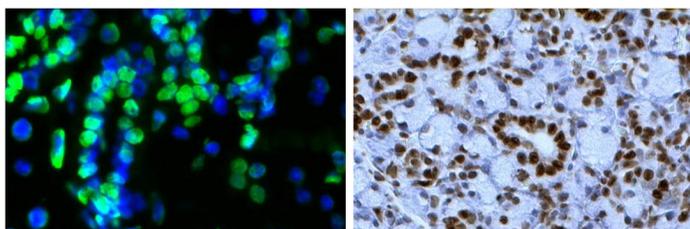
Product Name	Cat. #	Size	Price
MEM	PM150411	10× 500 mL	\$99.00
MEM, with HEPES	PM150433	10× 500 mL	\$149.00
MEM (glucose free)	PM150455	5× 500 mL	\$99.00
MEM (ATCC Modification)	PM150467	5× 500 mL	\$179.00
RPMI-1640 Complete Medium	PM150110B	4× 125 mL	\$109.00
MCF 10A Cells Complete Medium	CM-0525	4× 125 mL	\$159.00
NK-92 Cell Complete Medium	CM-0530	4× 125 mL	\$269.00
NK-92MI Cell Complete Medium	CM-0533	4× 125 mL	\$269.00

Please visit www.lifesct.com/cell-culture-media for more information

Cell Apoptosis Kits

In our TUNEL assays, the DNA strand breaks with 3'-hydroxyl ends are labeled with biotin-11-dUTP in the presence of terminal deoxynucleotidyl transferase (TdT). Once incorporated into the DNA, Biotin is detected using HRP or fluorophore labeled streptavidin. Our kits provide sufficient reagents for 50 assays, and are suitable for cell and tissue samples.

- Broad application: Suitable for FFPE tissue, frozen tissue and cells.
- High sensitivity: Can detect a low population of apoptotic cells.
- Multicolor: Many fluorophores to choose.

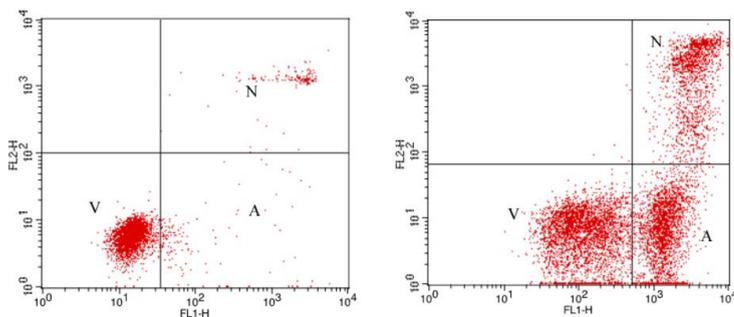


Terminal deoxynucleotidyl transferase dUTP nick end labeling (TUNEL)-mediated detection of apoptotic cells in mouse tongue tissue. The imaging results using TUNEL LiFluor™ 488 Apoptosis Detection Kit (left), and TUNEL Chromogenic Apoptosis Detection Kit (right).

Product Name	Cat. #	Size	Price
TUNEL Chromogenic Apoptosis Detection Kit	C0036	50 rxns	\$439.00
TUNEL LiFluor™ 488 Apoptosis Detection Kit	C0037	50 rxns	\$439.00
TUNEL LiFluor™ 594 Apoptosis Detection Kit	C0038	50 rxns	\$439.00
TUNEL LiFluor™ 647 Apoptosis Detection Kit	C0039	50 rxns	\$439.00

Please visit www.lifesct.com/TUNEL-apoptosis-detection-kits for more information

Annexin V Apoptosis Detection Kits provide quick and reliable detection methods for studying the externalization of phosphatidylserine in apoptotic cells. These conjugates and kits are very useful for flow cytometry or fluorescence microscopy to assess mixed populations of apoptotic and nonapoptotic cells.



Jurkat cells treated with 10 μM camptothecin for four hours (right panel) or untreated (as control, left panel). Cells were then treated with the reagents in the kit, followed by flow cytometric analysis.

Product Name	Cat. #	Size	Price
eGFP Annexin V and PI Apoptosis Kit	C0032	100 rxns	\$199.00
FITC Annexin V and PI Apoptosis Kit	C0033	100 rxns	\$199.00
LiFluor™ 488 Annexin V and PI Apoptosis Kit	C0034	100 rxns	\$199.00
Apoptotic, Necrotic, and Healthy Cells Detection Kit	C0035	50 rxns	\$179.00

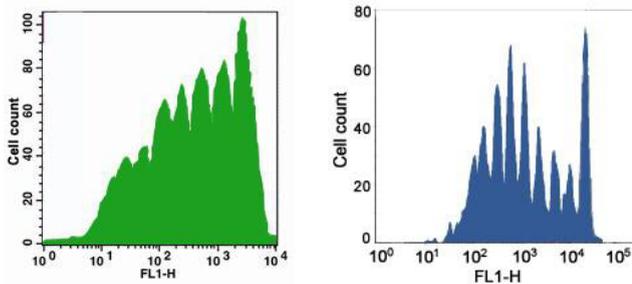
Please visit www.lifesct.com/annexin-V-apoptosis-detection-kits for more information



Cell Proliferation Kits

Tracking Cell Proliferation by Generation after Generation

LifeSct Cell Proliferation Kits can be adapted to multicolor flow cytometry analysis to precisely tracing cell proliferation while performing other cell analysis using different color panel. In addition, the fluorescent labels in our Cell Proliferation Kits can be excited with the most common excitation sources for flow cytometry: the 405, and 488 nm laser, respectively.



Cell generation analysis with CFSE (Left) and Violet dye (Right). Jurkat cells ($\sim 1 \times 10^6$ cells/ml) were stained with CFSE or Violet dye (1 μ M) on Day 0. The cells were cultured for 7 days. Fluorescence intensity was measured with FACS flow cytometer.

Product Name	Cat. #	Size	Price
LiFluor™ CFSE Cell Proliferation Kit	C0014	1000 rxns	\$199.00
LiFluor™ Violet Cell Proliferation Kit	C0015	200 rxns	\$199.00

Tracking New DNA Synthesis

LiFluor™ EdU assays are designed to analyze the rate of new DNA synthesis based on incorporation of the nucleoside analog EdU into DNA. Detection is achieved through a copper-catalyzed “click” reaction that is complete typically within 30 minutes. The LiFluor™ EdU assays have great advantage compared to the traditional BrdU assay.

Product Name	Cat. #	Size	Price
LiFluor™ 488 EdU Imaging Kit	C0016	50 rxns	\$349.00
LiFluor™ 555 EdU Imaging Kit	C0017	50 rxns	\$349.00
LiFluor™ 594 EdU Imaging Kit	C0018	50 rxns	\$349.00
LiFluor™ 647 EdU Imaging Kit	C0019	50 rxns	\$349.00
LiFluor™ 488 EdU Flow Cytometry Assay Kit	C0020	50 rxns	\$389.00
LiFluor™ 647 EdU Flow Cytometry Assay Kit	C0021	50 rxns	\$389.00

Tracking New RNA Synthesis

LiFluor™ EU assays utilize an alkyne-modified nucleoside, 5-ethynyl uridine (EU), and powerful click chemistry to detect newly synthesized RNA in a simple, two-step procedure. In step one, the alkyne-containing nucleoside is fed to cells or animals and actively incorporated into nascent RNA. Detection utilizes the “click” reaction between an azide and an alkyne where the modified RNA is detected with a corresponding azide-containing dye.

Product Name	Cat. #	Size	Price
LiFluor™ 488 EU Imaging Kit	C0022	50 rxns	\$349.00
LiFluor™ 594 EU Imaging Kit	C0023	50 rxns	\$349.00

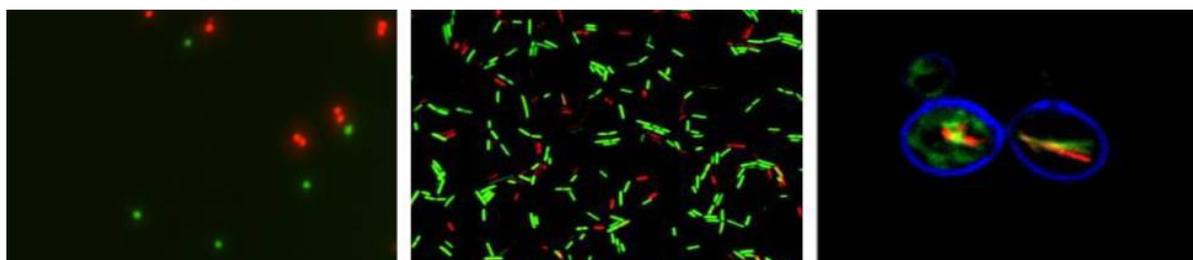
Please visit www.lifesct.com/cell-proliferation-kits for more information



LiFluor™ Cell Viability Kits

LiFluor™ Cell Viability Kits are principally used to enumerate the proportion of live and dead cells in a population. The fluorescence-based cell viability and cytotoxicity assays are less hazardous and less expensive than radioisotopic techniques, more sensitive than colorimetric methods and more convenient than animal testing methods. Our cell viability and cytotoxicity assays are reliable and easy to perform for simultaneous quantitation of live and dead cells. Our kits are suitable for detection with a fluorescence microscope, flow cytometer or microplate reader, and ideal for high-throughput screening applications.

- Simplicity: Reagents are simultaneously added, no wash steps are required.
- Specificity and reliability: Distinct color for live and dead cell.
- Versatility: Suitable for fluorescence microscope, flow cytometer or microplate reader.

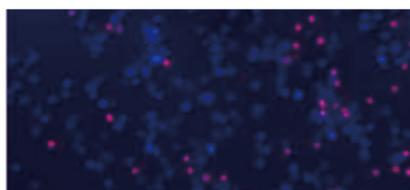


Detection of live or dead cells from animal cells (left), bacteria cells (middle), and yeast (right) using our LiFluor™ Cell Viability Kits.

Product Name	Cat. #	Size	Price
LiFluor™ Animal Cell Viability Kit	C0027	1000 rxns	\$199.00
LiFluor™ Bacteria Cell Viability Kit	C0028	1000 rxns	\$199.00
LiFluor™ Yeast Cell Viability Kit	C0029	1000 rxns	\$199.00

Please visit www.lifesct.com/cell-viability-kits for more information

LiFluor™ Cell Viability Imaging Kit is a ready-to-use assay that can quickly and easily determine the viability of cells. Just add 2 drops each of Hoechst 33342 Live Cell Stain reagent and Green 488 Dead Cell Stain reagent to 1 ml of cell growth media, then determine viability by counting total vs dead cells. Hoechst 33342 reagent stains the nuclei of all the cells and can be detected with a standard DAPI filter. Green 488 Dead reagent stains only the nuclei of cells with compromised plasma membrane integrity and is detected using a standard FITC (green) filter set. This kit is appropriate for fluorescence microscopy and flow cytometry.

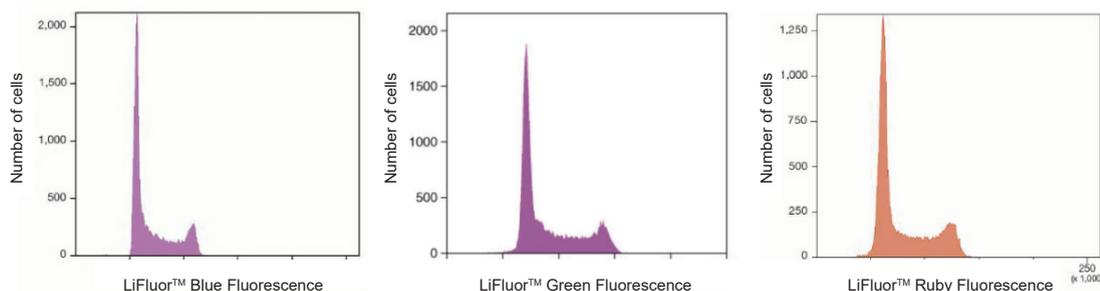


Left: Blue/Green
Right: Blue/Red

Product Name	Cat. #	Size	Price
LiFluor™ Cell Viability Imaging Kit (Blue/Green)	C0030	2×10 ml	\$149.00
LiFluor™ Cell Viability Imaging Kit (Blue/Red)	C0031	2×10 ml	\$149.00

LiFluor™ Cell Cycle Stains

Cell cycle analysis by DNA content measurement is a method that most frequently employs flow cytometry to distinguish cells in different phases of the cell cycle. We offers a family of LiFluor™ stains for cell cycle analysis. These stains have different excitation and emission wavelengths, making multicolor cell cycle studies possible.



Product Name	Cat. #	Size	Price
LiFluor™ Cell Cycle Blue Stain	C0040	100 rxns	\$99.00
LiFluor™ Cell Cycle Green Stain	C0041	100 rxns	\$99.00
LiFluor™ Cell Cycle Ruby Stain	C0042	100 rxns	\$199.00
LiFluor™ Cell Cycle PI/RNase Stain Solution	C0043	100 rxns	\$199.00

Please visit www.lifesct.com/cell-cycle-stains for more information

SuperLumin™ Luciferase Assay Kits

SuperLumin™ Dual Luciferase Assay Kit is a homogeneous reagent system that enables fast and simple quantitation of a stable luminescent signal from two reporter genes in a single sample. The simple workflow generates both firefly and Renilla luciferase luminescence signals from cells that have not been preconditioned or prelysed. In the Dual Luciferase Assay, the activity of the primary reporter is correlated with the effect of specific stimuli, and the activity of the co-transfected control reporter provides an internal control to normalize results. The system is optimized for batch processing both 96- and 384-well plates and is compatible with a wide variety of mammalian cell culture media. The Dual Luciferase Assay Kit is the best choice for cell-based, high-throughput screening applications.

- Increased Precision and Accuracy: Assay normalization using an internal control co-reporter minimizes the effects of variations in cell number and health, transfection efficiency and nonspecific cellular responses.
- No centrifugation or pre-lysis steps required. Reagents are added directly to growth medium for both reporters.
- Stable signal allows flexibility for batch or continuous processing of 96- and 384-well plates.
- Simple, two-step assay is compatible with any luminometer.

Product Name	Cat. #	Size	Price
SuperLumin™ Dual Luciferase Assay Kit	M0063	100 T	\$189.00
SuperLumin™ Renilla Luciferase Assay Kit	M0062	100 T	\$149.00
SuperLumin™ Firefly Luciferase Assay Kit	M0061	100 T	\$149.00

Please visit www.lifesct.com/luciferase-assay-kits for more information

Catalog Products

Cell Transfection

Product Name	Cat. #	Size	Price
PrimeFect™ Transfection Reagent	M0003-01	1 ml	\$199.00
PrimeFect™ Transfection Reagent for CHO Cells	M0003-CC	1 ml	\$229.00
PrimeFect™ Transfection Reagent for HepG2 Cells	M0003-EC	1 ml	\$229.00
PrimeFect™ Transfection Reagent for Hela Cells	M0003-HC	1 ml	\$199.00

Cell Culture

Product Name	Cat. #	Size	Price
Mycoplasma Removal Medium (RPMI-1640)	PM150110-MR	300 ml	\$109.00
Nanobacteria Removal Medium (RPMI-1640)	PM150110-HR	500 ml	\$149.00
Mycoplasma Removal Medium (DMEM, High glucose)	PM150210-MR	300 ml	\$109.00
Nanobacteria Removal Medium (DMEM, High glucose)	PM150210-HR	500 ml	\$149.00
MEM Complete Medium	PM150411B	4× 125 ml	\$109.00
IMDM Complete Medium	PM150510B	4× 125 ml	\$109.00
Human Chondrocyte Complete Medium	CM-H107	100 ml	\$99.00
NK-92 Cell Complete Medium	CM-0530	4× 125 ml	\$269.00
Mycoplasma PCR Detection Kit	C0044	50 T	\$199.00
Mycoplasma Stain Kit	C0045	10 ml	\$199.00

Cell Apoptosis

Product Name	Cat. #	Size	Price
Caspase-3/7 Z-DEVD-R110 Assay Kit	C0046	100 rxns	\$249.00
JC-1 Mitochondrial Membrane Potential Detection Kit	C0047	100 rxns	\$199.00

Cell Proliferation & Viability

Product Name	Cat. #	Size	Price
CCK-8 Cell Counting Kit	C0024	500 rxns	\$139.00
MTT Cell Proliferation Assay Kit	C0025	1000 rxns	\$199.00
AlamarBlue Cell Viability Kit	C0026	2500 rxns	\$179.00



Cell Structure Probes

Product Name	Cat. #	Size	Price
Green Live-cell Nucleic Acid Stain	C0075	1 ml	\$139.00
Green Dead-cell Nucleic Acid Stain	C0076	1 ml	\$139.00
Red Live-cell Nucleic Acid Stain	C0077	1 ml	\$139.00
DAPI Fixed Cell Stain	C0068	10 ml	\$99.00
DiO perchlorate	C0048	25 mg	\$129.00
Dil perchlorate	C0049	25 mg	\$129.00
DiD perchlorate	C0050	25 mg	\$149.00
Blue CMAC	C0056	5 mg	\$149.00
Green CMFDA	C0057	1 mg	\$169.00
Monobromobimane	C0058	25 mg	\$149.00
Lysosome Blue Stain	C0064	1 ml	\$139.00
Lysosome Green Stain	C0065	1 ml	\$139.00
Cytoskeleton Green Stain	C0111	5 ml	\$189.00
Cytoskeleton Red Stain	C0097	5 ml	\$189.00

LiFluor™ Fluorescent Dyes

Product Name	Cat. #	Size	Price
LiFluor™ 350 Blue Fluorescent Dye	C0098	5 mg	\$369.00
LiFluor™ 405 Blue Fluorescent Dye	C0099	5 mg	\$369.00
LiFluor™ 405 Green Fluorescent Dye	C0100	5 mg	\$369.00
LiFluor™ 488 Green Fluorescent Dye	C0101	5 mg	\$369.00
LiFluor™ 546 Red Fluorescent Dye	C0102	5 mg	\$369.00
LiFluor™ 555 Red Fluorescent Dye	C0103	5 mg	\$369.00
LiFluor™ 568 Red Fluorescent Dye	C0104	5 mg	\$369.00
LiFluor™ 594 Red Fluorescent Dye	C0105	5 mg	\$369.00
LiFluor™ 610 Red Fluorescent Dye	C0106	5 mg	\$369.00
LiFluor™ 635 Red Fluorescent Dye	C0107	5 mg	\$369.00
LiFluor™ 647 Red Fluorescent Dye	C0108	5 mg	\$369.00
LiFluor™ 680 Red Fluorescent Dye	C0109	5 mg	\$369.00
LiFluor™ 750 Red Fluorescent Dye	C0110	5 mg	\$369.00

Please visit www.lifesct.com/fluorescent-dyes for more information

Ecolyse™ Bacteria Lysis Kit

Ecolyse™ Bacterial Cell Lysis Kit is a proprietary detergent free formulation of bacteria lysis buffer that ensures near 100% lysis of *E.coli* and other bacteria cells, with comparable lysis efficiency to French Press homogenizers. No separate addition of lysozyme, Benzonase or DNase is necessary. The whole extraction process can be completed in half an hour. The same reagents can be used for colony plasmid screening by size, it eliminates the gel loading problem in the alkaline lysis colony cracking method.

- Comparable lysis efficiency to French Press
- No separate addition of lysozyme, Benzonase or DNase and detergent free
- Scalable batch processing
- Amenable to high-throughput automation



Pellets from 20 ml of bacteria culture were lysed in 1ml of either buffer for sonication, Ecolyse reagent or B-Per reagent.

S: soluble fraction; P: insoluble pellet; E: EDTA elution from Ni-NTA beads; B: Ni-NTA beads after EDTA.

Due to components in the Ecolyse reagents, bands ran diffused. However, since the pellets were resuspended in the same amount of PBS buffer, it's clear from the amount of protein in the pellet that Ecolyse dissolved the most protein, and B-Per lysis was not complete. Likewise, similar amounts of the target protein were purified from sonication or Ecolyse lysed cells, while less protein was obtained from B-Per lysed cells.

Product Name	Cat. #	Size	Price
Ecolyse™ Bacteria Lysis Kit	C0123	40 ml	\$169.00

Please visit www.lifesct.com/bacteria-lysis-kit for more information

LiPure™ Viral DNA/RNA Extraction Kit

Viral DNA/RNA Extraction Kit is intended for rapid viral DNA/RNA isolation from different kinds of specimens including plasma, serum, nasopharyngeal swab, sputum, bronchoalveolar lavage fluids, ascites, supernatant of cell culture and urine.

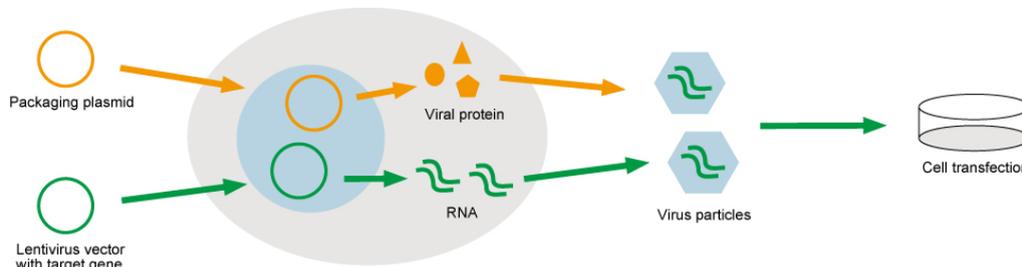
- High sensitivity: the kit can be used to isolate viral DNA/RNA as little as 10 copies of virus.
- Immediately detectable: The operation process is convenient, the components are simple and easy to use, and one time transfer of solution to adsorption column method greatly reduces the workload and operating time.
- High quality: It has high yield, high purity, stable quality, free of protein, nuclease and other impurities.

Product Name	Cat. #	Size	Price
LiPure™ Viral DNA/RNA Extraction Kit	M0045	50 rxns	\$199.00
LiPure™ Magbead Viral DNA/RNA Extraction Kit	M0093	50 rxns	\$199.00

Lentiviral Packaging Kits

Lentiviral Packaging Kit is designed to optimize the packaging of third generation lentivectors into virus particles which can express your lentiviral construct in a multitude of mammalian cells. The 3rd generation packaging system offers maximal biosafety as the lentiviral Rev gene is supplied as an independent vector from other structure genes, further eliminating the possibility of reverse recombination of vectors into replication competent viral particles.

- Effectively leverage the powerful lentiviral transduction platform with optimized HIV-based packaging system.
- Easily generate high-titer lentiviral preparations.
- Efficiently deliver most third-generation lentivector expression constructs.



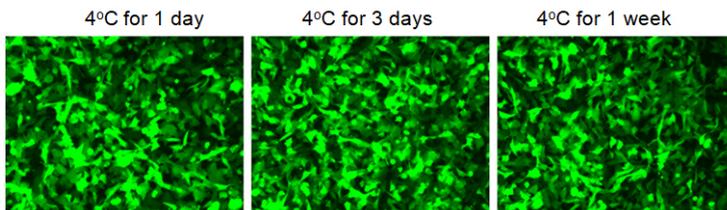
Product Name	Cat. #	Size	Price
Lentivirus Packaging Kit	M0040	10 rxns	\$459.00

Please visit www.lifesct.com/lentiviral-packaging-kits for more information

Lentivirus Concentration Reagent is designed to concentrate lentiviral particles in a simple, quick and effective way. Just mix 4 volume of lentiviral supernatant with 1 volume of the Lentivirus Concentration Reagent, incubate for a short time at 4°C, then spin the mixture in a standard centrifuge. You'll increase your lentivirus titer up to 100 fold in 2 hours.

Product Name	Cat. #	Size	Price
5× Lentivirus Concentration Reagent	M0041	50 ml	\$199.00

Lentivirus Storage Buffer is developed to preserve the infectivity of lentivirus in storage. When stored in regular production media, such as DMEM, after 6 months of storage at -80 °C, most of the infectivity will be lost. In contrast, when stored in the Lentivirus Storage Buffer, the infectivity is well preserved.



GFP lenti particles were stored at 4°C for different time period, then transduced HT1080 cells. Fluorescent images were taken after 72 hours post-transduction.

Product Name	Cat. #	Size	Price
Lentivirus Storage Buffer	M0060	50 ml	\$149.00
Lentivirus Transduction Enhancer I	M0089	1 ml	\$349.00
Lentivirus Transduction Enhancer II	M0090	1 ml	\$249.00



Pre-made Adenovirus

Controls & Markers

Product Name	Cat. #	Size	Price
Adenovirus Cre-mCherry	M1004	200 µl	\$549.00
Adenovirus mCherry	M1024	200 µl	\$549.00
Adenovirus His	M1031	200 µl	\$549.00
Adenovirus tdTOMATO	M1041	200 µl	\$549.00

G Protein-coupled Receptors

Product Name	Cat. #	Size	Price
Adenovirus MCHR1	M1044	200 µl	\$689.00
Adenovirus RGS2-mCherry	M1045	200 µl	\$689.00
Adenovirus UBC-RGS2	M1046	200 µl	\$689.00
Adenovirus GLP1R	M1047	200 µl	\$689.00

Phosphatases and Kinases

Product Name	Cat. #	Size	Price
Adenovirus PTEN	M1052	200 µl	\$543.00
Adenovirus Akt	M1053	200 µl	\$543.00
Adenovirus DUSP10	M1054	200 µl	\$685.00
Adenovirus NLK	M1055	200 µl	\$685.00

Growth Factors

Product Name	Cat. #	Size	Price
Adenovirus BDNF	M1087	200 µl	\$689.00
Adenovirus PDGF	M1087	200 µl	\$549.00
Adenovirus PGF	M1087	200 µl	\$549.00
Adenovirus VEGF	M1087	200 µl	\$549.00
Adenovirus aFGF	M1087	200 µl	\$549.00
Adenovirus bFGF	M1087	200 µl	\$549.00

Please visit www.lifesct.com/pre-made-adenovirus for more information

Pre-made AAVs

Product Name	Cat. #	Size	Price
AAV Null	M1400	30 μ l	\$689.00
AAV GFP	M1401	30 μ l	\$689.00
AAV CMV-mCherry	M1402	30 μ l	\$689.00
scAAV GFP	M1403	30 μ l	\$689.00
AAV Cre	M1404	30 μ l	\$689.00
scAAV Cre	M1405	30 μ l	\$689.00
AAV Cre-GFP	M1406	30 μ l	\$689.00
AAV U6-shRNA-GFP	M1407	30 μ l	\$589.00
AAV U6-miRNA-GFP	M1408	30 μ l	\$589.00
AAV CAG-GFP	M1409	30 μ l	\$589.00
AAV CAG-Cre	M1410	30 μ l	\$589.00
AAV CAG-Cre-GFP	M1411	30 μ l	\$589.00

Please visit www.lifesct.com/pre-made-AAVs for more information

Pre-made Lentivirus

Product Name	Cat. #	Size	Price
Lentivirus CMV-Null-Puro	M1800	2 \times 25 μ l	\$519.00
Lentivirus EF1 α -Null-Puro	M1801	2 \times 25 μ l	\$519.00
Lentivirus CAG-Null-Puro	M1802	2 \times 25 μ l	\$519.00
Lentivirus Synapsin-Null	M1803	2 \times 25 μ l	\$519.00
Lentivirus CMV-GFP-Puro	M1804	2 \times 25 μ l	\$519.00
Lentivirus EF1 α -GFP-Puro	M1805	2 \times 25 μ l	\$519.00
Lentivirus CAG-GFP-Puro	M1806	2 \times 25 μ l	\$519.00
Lentivirus Synapsin-GFP	M1807	2 \times 25 μ l	\$519.00
Lentivirus CMV-Cre-Puro	M1808	2 \times 25 μ l	\$519.00
Lentivirus CMV-iCre-Puro	M1809	2 \times 25 μ l	\$519.00
Lentivirus EF1 α -mCherry-Puro	M1810	2 \times 25 μ l	\$519.00
Lentivirus CAG-mCherry-Puro	M1811	2 \times 25 μ l	\$519.00
Lentivirus Synapsin-mCherry	M1812	2 \times 25 μ l	\$519.00
Lentivirus CMV-mCherry-Puro	M1813	2 \times 25 μ l	\$519.00

Please visit www.lifesct.com/pre-made-lentivirus for more information



LIFESCT

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