

Welcome to contact distributors

Leading Biology Inc.

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## LB Leading Biology

Leading Biology strives to manufacture high quality products and provide industry leading customer service through continuous exploration for improvement in every aspect of our business.

**Platforming:** Continue to build and update our platform on a daily basis.

**Search Methods:** We try to make our search methods in various dimensions.

**Process Management:** Each of our clients has different research needs.

**Prompt Response:** 7\*24 services and promise to respond to our customers within 24 hours.



# LB Leading Biology

# Molecular Products & Kits

Leading Biology Inc.



**• Dedicated to providing you with:**

Leading Biology Inc., with office located in California of the United States, is an international company committed to the development and manufacture of bio-products with cutting-edge technology in Biology. Our specializations include a wide range of products (antibodies, proteins, cells and chemicals) and custom service. From establishment up to now, we've provided our customers with thousands of high quality products and offered satisfying service under the support of our professional technical team with decades of experience in biotechnology field.

Our 3000 square meters research laboratory with advanced facilities enables us to provide a wide variety of technical solutions to exceeding your needs such as: sequencing and CHIP, immunology, gene engineering, metabolomics, bioinformatics service and so on.

As the supplier of reliable service and on-time delivery, Leading Biology has won many awards and accredited international certifications for its innovative capacities and contributions to the development of biotechnology.



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# PCR Series Products

We offer a wide range of PCR enzymes and reagents to meet your different needs. LB enzymes such as Taq DNA polymerase, TTH Polymerase, Kofu DNA Polymerase and Platinum Hot Start CH-TaQ DNA Polymerase, all could help you to get excellent experiment results.

Besides, Leading Biology PCR products are available in convenient mixes with random primers, either as a complete kit, or as a stand-alone enzyme, which enables you to choose the suitable form for your projects. Choose from the following PCR Product List to assist you to obtain high productivity in oligonucleotide synthesis, labelling, in vitro transcription, PCR, and detection.

## PCR

Product	Catalog No.	Size	Price (USD)
Taq DNA polymerase	MP001-01	50 µL	25
	MP001-02	4×50 µL	80
Kofu DNA polymerase	MP002-01	250 µL	85
	MP002-02	4×250 µL	300
TTH Polymerase	MP003-01	50 µL	125
	MP003-02	4×50 µL	450
2×Taq PCR Mix	MP004-01	1 ml	30
	MP004-02	5 mL	120
2×Taq PCR Mix(Dye plus)	MP005-01	1 mL	30
	MP005-02	5 mL	120
2×Hot Start Taq PCR Mix (Dye plus)	MP006-01	1 mL	65
	MP006-02	5 mL	280
High Pure dNTPs Mixture	MP007-01	2.5mM;1 mL	40
	MP007-02	10mM ;1 mL	150
M-MLV Rtase	MP008-01	100 µL	70
	MP008-02	4×100 µL	250
Rnase Inhibitor	MP009-01	50 µL	85
	MP009-02	4×50 µL	300
cUracil-DNA Glycosylase	MP010-01	100 µL	260
	MP010-02	500 µL	1100
Reverse Transcription Kit	MP011-01	100T	360
Fast Reverse Transcription Master Mix (with gDNase)	MP012-01	10T	470
One Step RT-PCR Kit	MP013-01	100 T×50 µL	400
SYBR Safe DNA Gel Stain(CelRed)	MP014-01	0.5ml	260
DL2000 DNA Marker	MP015-01	4×250 µL	130
DL5000 DNA Marker	MP016-01	4×250 µL	130
DL8000 DNA Marker	MP017-01	4×250 µL	130

## qPCR

Product	Catalog No.	Size	Price (USD)
Hot start CH-TaQ DNA Polymerase	MQ001-01	50 µL	120
	MQ001-02	4×50 µL	450
Hot start AB-TaQ DNA Polymerase	MQ002-01	50 µL	95
	MQ002-02	4×50 µL	350
Hot start TTH Polymerase	MQ003-01	50 µL	95
	MQ003-02	4×50 µL	350
SYBR GreenCH-HS Green qPCR Mix	MQ004-01	1 mL	85
	MQ004-02	5 mL	400
SYBR Green CH-HS qPCR Mix UDG	MQ005-01	1 mL	95
	MQ005-02	5 mL	450
SYBR Green AB-HS qPCR Mix	MQ006-01	1 mL	85
	MQ006-02	5 mL	400
SYBR Green AB-HS qPCR Mix UDG	MQ007-01	1 mL	95
	MQ007-02	5 mL	450
Probe CH-HS qPCR Mix	MQ008-01	1 mL	95
	MQ008-02	5 mL	450
Probe CH-HS qPCR Mix UDG	MQ009-01	1 mL	130
	MQ009-02	5 mL	600
ProbeAB-HS qPCR Mix	MQ010-01	1 mL	85
	MQ010-02	5 mL	400
Probe AB-HS qPCR Mix UDG	MQ011-01	1 mL	110
	MQ011-02	5 mL	500

LB cPCR products vs. others: LB® qPCR products with Colorless Flexi Buffer outperforms antibody for amplification of a Human APC gene.

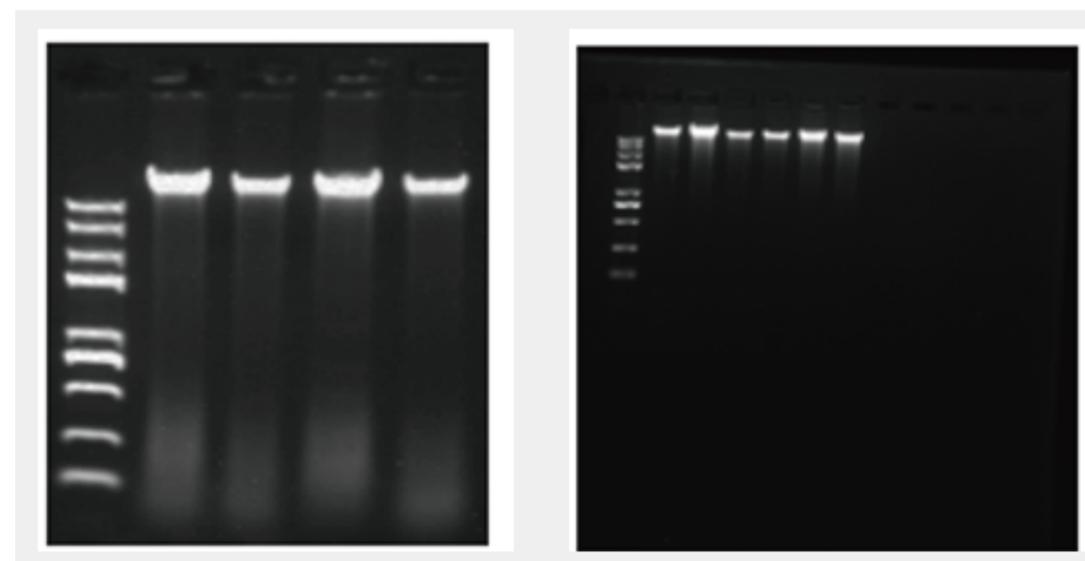


Fig. 1: Contrasting LB Hot Start CH-TaQ DAN Polymerase (the Left Two) to others (the Right Two), by showing their results in experiments.

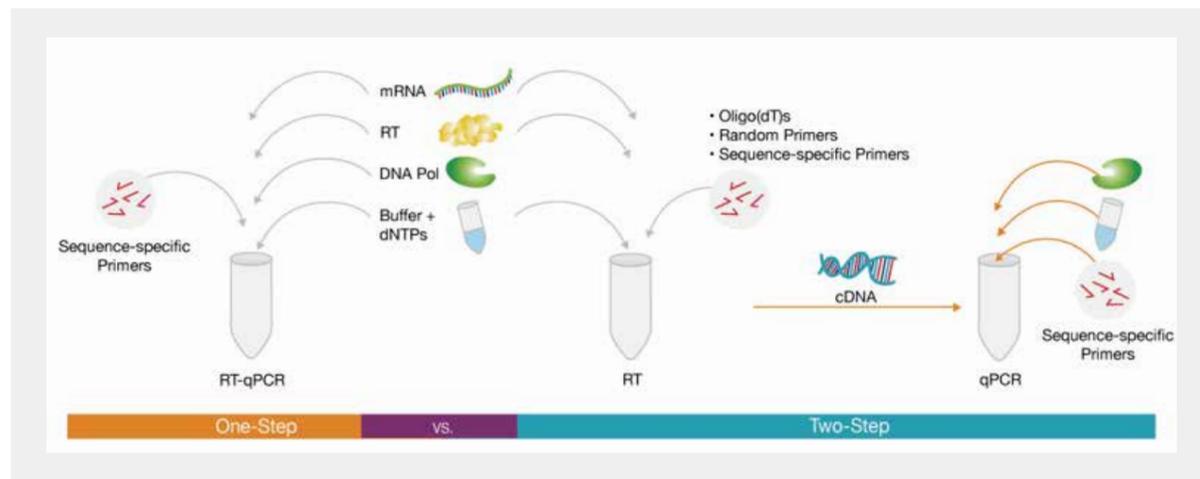
Fig. 2: Contrasting LB SYBR Green CH-HS qPCR Mix (the Left Three) to others (the Right Three), by showing their results in experiments.

## RT-PCR Mix

We offer a wide range of quality first-strand cDNA synthesis products to meet your diverse research needs.

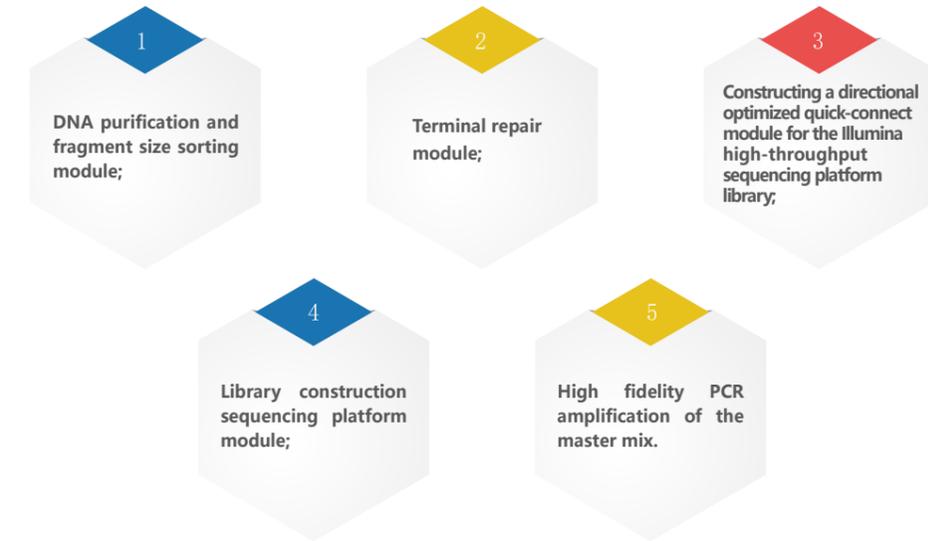
You can choose the most suitable reverse transcriptase, delivery forms, primer and dNTP solution for your application.

Our Invitrogen SuperScript Premium Reverse Transcriptase product line helps you get excellent cDNA synthesis results from any template RNA.



## Library Construction

We offer a variety of library construction kits optimized for the Illumina High-Throughput Sequencing Platform, as well as library optimization reagents. The convenient method using LB Library construction kits is ready for the applications as follows:



**Quality:** Strict quality control and functional verification.

**Stability:** Maximum stability and repeatability of library construction and reduced batch-to-batch variation.

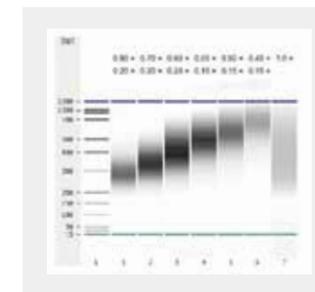


Fig. 1: DNA Library Prep Kit for Illumina Sequencing: Different DNA fragments converted into fully compatible Illumina libraries.

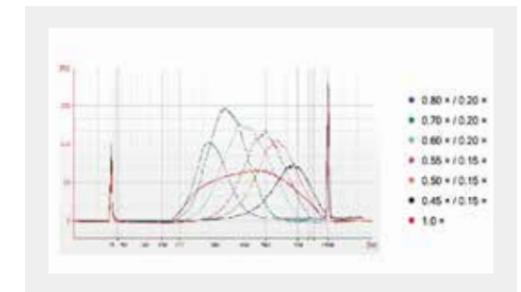


Fig. 2: Screening and sorting of the library: Data with measurement of binding curves of proteins displayed on the beads with LB DNA Clean Beads product

Product	Catalog No.	Size	Price
SYBR Green CH-HS qRT-PCR Mix	MQ012-01	100 T×50 μL	650
	MQ012-02	500 T×50 μL	2800
SYBR Green AB-HS qRT-PCR Mix	MQ013-01	100 T×50 μL	650
	MQ013-02	500 T×50 μL	2800
SYBR Green One Step qRT-PCR Pre-Mix	MQ014-01	100 T×50 μL	560
	MQ014-02	500 T×50 μL	2400
Probe CH- HS qRT-PCR Mix	MQ015-01	100 T×50 μL	650
	MQ015-02	5×100 T×50 μL	2800
Probe AB-HS qRT-PCR Mix	MQ016-01	100 T×50 μL	650
	MQ016-02	5×100 T×50 μL	2800
Probe One Step qRT-PCR Pre-Mix	MQ017-01	100 T×50 μL	560
	MQ017-02	5×100 T×50 μL	2400

Product	Catalog No.	Size	Price (USD)
DNA Double-stranded fragmenting enzyme	ML001-01	50 rxn	300
	ML001-02	250 rxn	1300
DNA Clean Beads	ML002-01	5 mL	350
	ML002-02	60 mL	3500
	ML002-03	450 mL	18000
Universal Adapter Ligation Module for Illumina	ML003-01	360 µL; 24 rxn	1400
	ML003-02	4×360 µL; 4×24 rxn	5000
Kofu HiFi Amplification Mix	ML004-01	600 µL; 24 rxn	270
	ML004-02	4×600 µL; 4×24 rxn	980
Universal DNA Library Prep Kit for Illumina (with Adaptor for Illumina and PCR Primer Mix for Illumina)	ML005-01	24 rxn	2300
	ML005-02	4×24 rxn	8800
Universal DNA Library Prep Kit for Illumina	ML006-01	24 rxn	2400
	ML006-02	4×24 rxn	10000
Tn5 DNA Library Prep Kit for Illumina	ML007-01	24 rxn	2700
	ML007-02	4×24 rxn	9800
Tn5 DNA Library Prep Index Kit for Illumina	ML008-01	30 µL/each	600
	ML008-02	30 µL/each	2000

Results for DAN & RNA purification by different products:

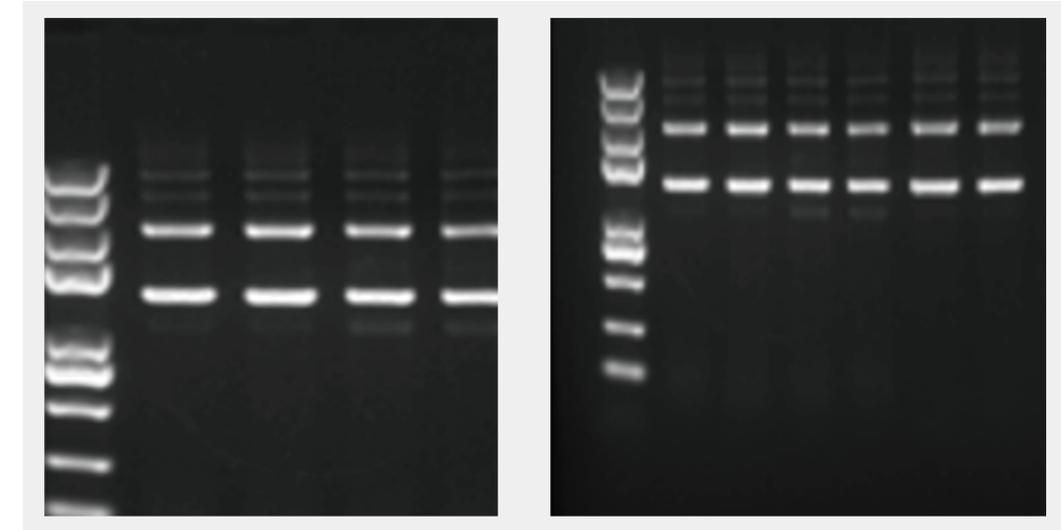


Fig.1: Typical results from plasmid DNA purified using the LB' s Rapid DNA product purification Kit (Spin-Columns).

Fig.2: Higher Specificity of RNA purification by LB' s Plant genome RNA extraction Kit (Spin-Columns) compared to others.

## Nucleic Acid Purification Kit ▶▶

We use alkaline lysis to lyse cells, combined with silicon matrix membrane technology, which is efficient, fast and convenient. With our kits removing impurities and other organic compounds in the cell, the preparation process does not require phenol extraction.

The steps of ethanol precipitation and the like have high purity and can be directly used for various enzymatic reactions such as transformation, DNA sequence analysis, restriction enzyme digestion and ligation.

**Fast:** Purify Nucleic acid (including plant samples) from various samples in less than an hour.

**Efficient :** Large output and less pollution.

**Large yield:** Large amounts of nucleic acid and minimal degradation.

## RNA purification

Product	Catalog No.	Size	Price
Plant genome RNA extraction kit (Spin-Columns)	MR001-01	50 T	230
Polysaccharide polyphenols total RNA extraction kit(Spin-Columns)	MR002-01	50 T	520
Total RNA Extraction Kit for Animal Tissue(Spin-Columns)	MR003-01	50 T	235
Whole blood total RNA extraction kit(Spin-Columns)	MR004-01	50 T	200
Cultured cells, bacterial total RNA extraction kit(centrifugal column type)	MR005-01	50 T	230
Plant Total RNA Extraction Kit(magnetic beads)	MR006-01	50 T	520
	MR006-02	100 T	980
Animal tissue cell total RNA extraction kit(magnetic beads)	MR007-01	50 T	520
	MR007-02	100 T	980
Bacterial total RNA extraction kit(magnetic beads)	MR008-01	50 T	520
	MR008-02	100 T	980

## DNA purification

Product	Catalog No.	Size	Price (USD)
Plasmid DNA purification kit in small quantities(Spin-Columns)	MD001-01	50 T	65
	MD001-02	200 T	220
Plasmid DNA purification kit in small quantities(magnetic bead)	MD002-01	50 T	260
Agarose gel DNA recovery kit (Spin-Columns)	MD003-01	50 T	130
Rapid DNA product purification kit(Spin-Columns)	MD004-01	50 T	130
Bacterial genome DNA extraction kit(Spin-Columns)	MD005-01	50 T	145
Plant genome DNA extraction kit (Spin-Columns)	MD006-01	50 T	140
Polysaccharide polyphenol plant DNA extraction kit(Spin-Columns)	MD007-01	50 T	140
Animal tissue/cell DNA extraction kit(Spin-Columns)	MD008-01	50 T	140
Blood genomic DNA extraction kit(Spin-Columns)	MD009-01	50 T	140
Soil genomic DNA extraction kit(Spin-Columns)	MD010-01	50 T	280
Fecal genomic DNA extraction kit(Spin-Columns)	MD011-01	50 T	270
Serum/plasma free DNA extraction kit(Spin-Columns)	MD012-01	50 T	200
Micro Tissue Genomic DNA Extraction Kit(Spin-Columns)	MD013-01	50 T	230
Metagenomic extraction from soil and silt(magnetic beads)	MD014-01	50 T	350
Plant genome DNA extraction kit(magnetic beads)	MD015-01	50 T	230
Animal tissue genomic DNA extraction kit(magnetic beads)	MD016-01	50 T	230
Oral swab genomic DNA extraction kit(magnetic beads)	MD017-01	50 T </td <td>230</td>	230
Oral swab genomic DNA extraction kit(magnetic beads)	MD018-01	50 T	230
Blood microbial DNA extraction kit(magnetic beads)	MD019-01	50 T	300

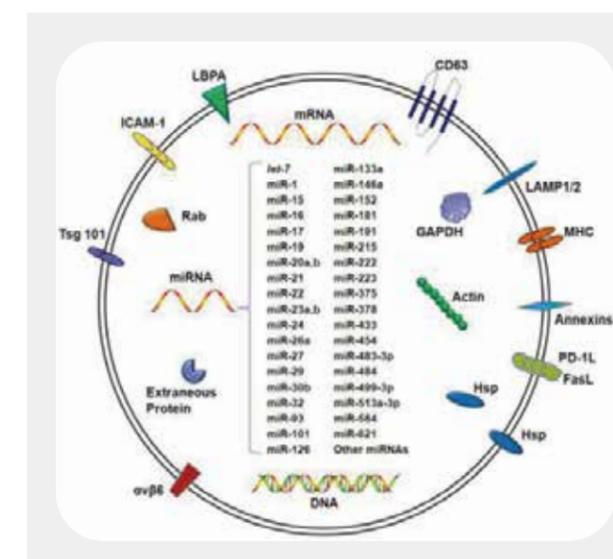
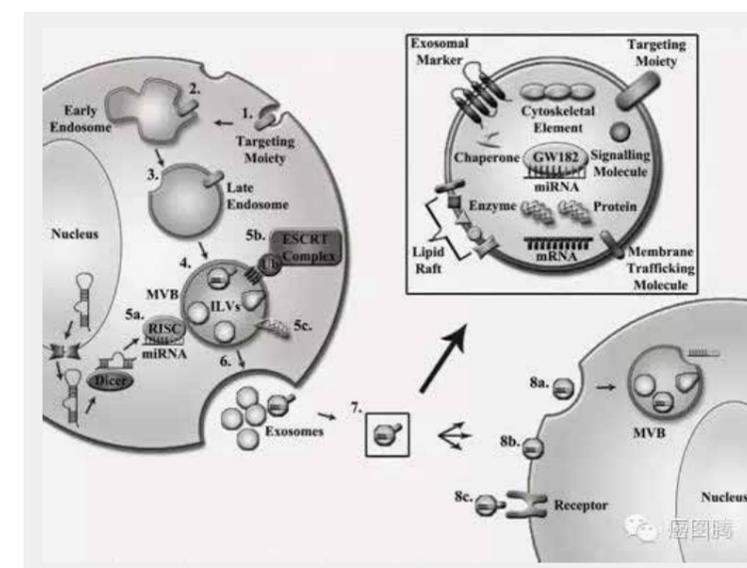


## Exosome Extraction

We provide efficient exosome kits that enables fast extraction of high yield and intact exosomes from plasma, cell culture supernatant, urine or tissue fluid.

A large number of structurally intact exosomes can be obtained from the sample with a simple operation and a conventional centrifuge.

Compared with traditional ultracentrifugation, Exosome Isolation Reagent is more efficient, time-saving and simple. And the extracted exosome can be used in subsequent experiments such as Western Blotting, qPCR, functional verification, and ELISA.



Product	Catalog No.	Size	Price (USD)
Exosome extraction kit(Serum/plasma)	MK001-01	10 T	520
	MK001-02	20 T	980
	MK001-03	50 T	2200
Exosome extraction kit(Cell culture fluid/urine)	MK002-01	20 mL (~10T)	780
	MK002-02	50 mL (~20T)	1400
	MK002-03	100 mL (~50T)	3400
Exosome extraction kit(tissue fluid)	MK003-01	10 T	520
	MK003-02	20 T	980
	MK003-03	50 T	2200

Exosomes isolated with LB Exosome extraction kit (Serum/plasma):

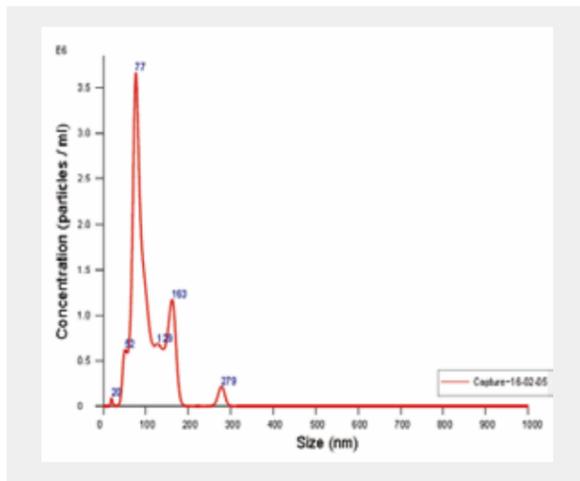


Fig.1: The analysis demonstrates a size distribution of particles consistent with the size range of exosomes.

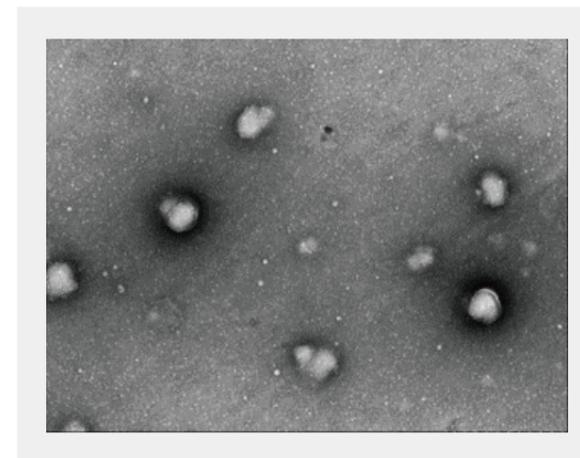


Fig. 2: Image of particles with near-spherical morphology

## Detection Kits ▶▶

With LB innovative technology, our RNA detection kits provide a rapid and easy method that facilitates to detect mRNA directly from plasma and exosomes. The process is simplified and successfully avoids time-consuming steps. The mRNA detection from supernatant could be obtained in 20 minutes.

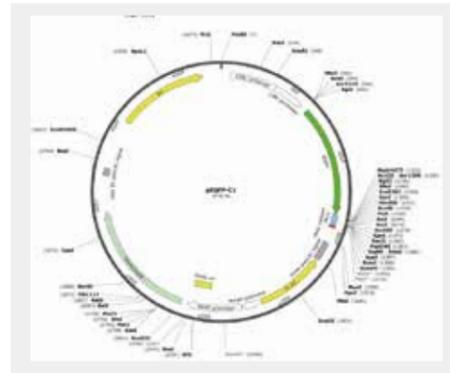
Product	Catalog No.	Size	Price (USD)
Plasma miRNA detection kit	MK004-01	30 preps	390
Plasma mRNA detection kit	MK005-01	30 preps	390
Exosome miRNA detection kit	MK006-01	30 preps	390
Exosome mRNA detection kit	MK007-01	30 preps	390

## Protein

Product	Catalog No.	Size	Price (USD)
BCA Protein quantification kit	PK001-01	BCA reagent A:100 ml; BCA reagent B:3 ml; BSA standards (2 mg/ml):2 ml	180
Super ECL Plus	PK002-01	50 mL	200
Supersensitive luminescent solution	PK002-02	100 mL	380

## Vector ▶▶

We provide a variety of mature carriers, including but not limited to the followings:



Product	Catalog No.	Size	Price (USD)
pCold I	MV001-01	20 µL	100
pEGFP-C2	MV002-01	20 µL	100
pET-11a	MV003-01	20 µL	100
pET-22b	MV004-01	20 µL	100
pET-24a	MV005-01	20 µL	100
pET-28a	MV006-01	20 µL	100
pET-32a	MV007-01	20 µL	100
pET-42a	MV008-01	20 µL	100
pGEX-4T	MV009-01	20 µL	100
pGEX-5X-3	MV010-01	20 µL	100
pGEX-6t1	MV011-01	20 µL	100
pMal-C5E	MV012-01	20 µL	100
pMal-C5X	MV013-01	20 µL	100
pQE-30	MV014-01	20 µL	100
pTrcHis A	MV015-01	20 µL	100

## Ordering Guide ▶▶

### Delivery

We cooperate with quality logistics companies such as FedEx, DHL, TNT, etc, to ensure the on-time and reliable delivery worldwide. If you prefer to ship your order using your own customer account of the companies above or by designated express service, please let us know before the order is processed. For orders with specific transportation requirements, we'll choose cooling packs or dry-ice as needed to make sure your product(s) shipped with good conditions. The invoice will be sent to you for confirmation by email.

### Order Support

Leading Biology Inc.  
 2600 Hilltop DR, Building G, B Suite C138  
 Richmond, CA, 94806  
 Phone: 1-661-524 (LBI) -0262  
 EMAIL: info@leadingbiology.com

### Return Guide

#### Goods Damaged

If you believe your package arrived damaged, defective or contaminated in any way in the shipping, please contact our customer service department within 3 days after the receipt of the goods and provide relevant evidence. We'll work with you to resolve the issue and send a free replacement once confirmed.

#### Goods Received Wrong

If you order the wrong product(s) and would like to request a refund, please contact our customer service department as soon as possible. For any product to be eligible for a refund, you have to return the product(s) you have purchased from us within 3 days after you receive the product(s). The product(s) must be unopened and in the original condition. Refunds do not include any cost of shipping. You'll be responsible for return shipping and may ship back the item using the carrier of your choice. We offer a refund guarantee for all purchases after the product(s) is returned and checked. If your order received with wrong goods or any omission, please contact us and we'll provide the replacement.

#### Goods with Quality Issue

Any order would be checked before shipment. If you're not satisfied with the quality of the product(s) that you have purchased from us, it's suggested that you stop using and contact us as soon as possible. Our customer service department will help you to solve the issue. Once confirmed, you are eligible for a full reimbursement or a free replacement.

We encourage our customers to check the goods carefully once received to ensure it fits your needs. Due to the nature of our business and products as sell, if you do not put forth any questions about the product(s) within 30 calendar days from the date of your receipt, we shall regard it as you are satisfied with the order, and you're not eligible for a refund or replacement after 30 calendar days.

If anything is unclear or you have any questions, please feel free to contact our customer service team.