



1st BASE

YOUR RESEARCH, OUR BUSINESS

Molecular Biology Kits



**Everything You Need for Reliable,
Ready-to-Use Molecular Workflows**

base-asia.com

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About Us



A Brand Leading the Way in Innovation and Excellence in Life Sciences

Founded in Singapore in 2002, 1st BASE delivers high-quality, locally made products to support life science researchers. In 2003, we expanded to Malaysia, enhancing our ability to serve a broader market.

1st BASE offers a wide range of products and services, including biochemicals, buffers, reagents, molecular biology kits, and sequencing services, empowering researchers with reliable tools for accurate results. These offerings complement our existing services, such as peptide synthesis, antibody production, and Next-Generation Sequencing.

In 2006, we expanded internationally across Asia Pacific. Today, our products and services are accessible in Indonesia, Thailand, Vietnam, India, and beyond.

In 2020, 1st BASE expanded its portfolio by introducing Contract Manufacturing and Kit Manufacturing services, delivering both customized production and ready-to-use kits. This empowers researchers and biotechnology companies to accelerate development timelines while accessing scalable, project-tailored solutions—further strengthening our position as a trusted partner in scientific

Why Engage with 1st BASE ?

We support your research from discovery to delivery. We uphold the highest level of quality in our DNA/RNA extraction products. This commitment to quality is evidenced by the dedication of our team to exceed above and beyond expectations and requirements.

- **Confidence at Every Step:** Validated and optimized protocols ensure reproducibility.
- **Instant Solutions:** WhatsApp live chat for Quick Tech Support!
- **Global Standard for Quality & Competency:** Internationally accredited and compliant with recognised standards.
- **Effortless Ordering:** Via online portal.

Master Product Selection Guide

Find the right kit for your sample type immediately.

Sample Source	Target Nucleic Acid	Recommended Kit	Product No & Size	Manual/Auto	Page No.
* Animal Tissue, Cells, Blood, Bacteria, Yeast	Genomic DNA	PrimeWay Genomic II DNA Extraction Kit	KIT-9022 (10/50/250 Preps)	Manual	5
* Plant Tissues	Genomic DNA	PrimeMag Plant Genomic DNA Extraction Kit	KIT-9230 (10/48/96 Preps)	Magnetic/Auto	7
Plant Tissues (High Polyphenols)	Genomic DNA	SEPa Plant DNA Isolation Reagent Kit	KIT-9101-125ml (120 Preps)	Manual	14
	Total RNA	SEPa Plant RNA Isolation Reagent Kit	KIT-9102-125ml (40 Preps)		
* Tissues, Cells, Insects, Bacteria, Plants	Total RNA	PrimeWay Total RNA Extraction Kit	KIT-9021 (10/50/250 Preps)	Manual	6
* Serum, Plasma, Swabs, VTM	Viral DNA/RNA	PrimeWay Viral DNA /RNA Extraction Kit	KIT-9010 (10/50/250 Preps)	Manual	9
* Soil, Manure, Water	Metagenomic DNA	PrimeWay Soil DNA Extraction Kit	KIT-9060 (10/50/250 Preps)	Manual	10
* Stool (Human/Animal), Gut Content	Metagenomic DNA	PrimeWay Stool DNA Extraction Kit	KIT-9070 (10/50 Preps)	Manual	11
* Processed Food, Raw Food, Gelatine	DNA (GMO/Halal)	PrimeWay Food DNA Extraction Kit	KIT-9080 (10/50 Preps)	Manual	13
Bacteria (Culture)	Plasmid DNA	PrimeWay Plasmid II DNA Extraction Kit	KIT-9041 (10/50/250 Preps)	Manual	15
PCR Products/ Agarose Gel	DNA Fragments	PrimeWay Gel Extraction/PCR Purification II Kit	KIT-9051 (10/50/250 Preps)	Manual	16

* NGS-validated Kits



Prime Extraction Series

**Our most versatile solutions for
everyday laboratory needs**

PrimeWay Genomic II DNA Extraction Kit

(KIT-9022-10/50/250)

The "One-Kit-Fits-All" Solution

Designed to efficiently isolate high-quality DNA from 16 different sample types



PrimeWay Genomic II DNA Extraction Kit is a spin-column based purification system designed to efficiently isolate high-quality DNA. This comprehensive kit includes unique buffers and reagents that enable users to work with 16 different sample types in the laboratory. All components of the kit are produced and tested in accordance with stringent quality standards.

The DNA extracted using this kit is well-suited for various downstream applications, such as genotyping, PCR, restriction analysis, Southern blotting, and more. Additionally, the kit has been validated for use with Next-Generation Sequencing (NGS) platforms for 7 specific sample types: cultured cells, bacteria, yeast, whole blood, buffy coat, nucleated blood, and white blood cells.

Versatile

High Quality DNA

Free from PCR Inhibitor

NGS Grade gDNA

Product Code	KIT-9022-10/50/250
Sample Type	Animal Tissue, Cultured Cells, Mouse/Rat Tail, Bacteria, Yeast, Fungi from Cut Agar, Whole Blood/Buffy Coat, Nucleated Blood, Dried Blood Spot, White Blood Cells, Insect, Buccal Swab, Saliva, Alcohol-Fixed Tissue, Sperm, Feather/Nails/Hair
Yield	Up to 40 µg
Applications	PCR, Genotyping, Southern Blotting, NGS, Restriction Analysis
Purity (A260/A280)	1.7 - 2.0
Duration	~25 minutes/prep (exclude lysis incubation)
Packaging Size	10, 50, 250 Preps



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PrimeWay Total RNA Extraction Kit

(KIT-9021-10/50/250)

High-Integrity RNA for Sensitive Applications

A rapid, reliable kit using silica-based spin columns to isolate high-quality total RNA



PrimeWay Total RNA Extraction Kit is a rapid reliable kit to isolate high-quality total RNA from various types of samples, including bacteria, yeast, cell cultures, animal tissue, insects, white blood cells and plant. It uses silica-based spin column to isolate and purify good quality total RNA. On-Column DNase treatment is incorporated into the kit to remove DNA during extraction. The purified total RNA is ready for applications such as cDNA synthesis, RT-PCR, Northern blotting, poly (A+) RNA purification, microarray analysis, transcriptome sequencing (RNA-Seq), etc.

Versatile

High Purity

Convenience

High Quality

NGS-Grade gDNA

Product Code	KIT-9021-10/50/250
Sample Type	Bacteria, Yeast, Cell cultures, Animal tissue, Insects, White blood cells, Plant
Yield	Up to 70 µg
Applications	RT-PCR, Northern Blotting, cDNA Synthesis, Microarray Analysis, Poly (A+) RNA Purification, Transcriptome Sequencing (RNA-Seq)
Purity (A260/A280)	2.0 - 2.3
Duration	<60 minutes
Packaging Size	10, 50, 250 Preps



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PrimeMag Plant Genomic DNA Extraction Kit

(KIT-9230-10/48/96)



PrimeMag Plant Genomic DNA Extraction Kit offers a fast and efficient magnetic bead-based method for isolating high-quality genomic DNA from plant samples. The kit is designed for the extraction of genomic DNA from a wide range of plant tissues using optimized buffer solutions.

It effectively removes proteins, excess RNA, metabolites, and other PCR inhibitors, delivering superior DNA purity and excellent integrity. The isolated DNA is suitable for downstream applications such as PCR, restriction analysis, and Next-Generation Sequencing (NGS).

The kit is compatible with manual workflows using a magnetic rack and can be easily integrated with automated magnetic bead extraction platforms, offering flexibility for both low- and high-throughput plant sample processing.

Superior DNA Integrity

Effortless Workflow

Sustainable by Design

Automation Ready Compatibility

Exceptional Purity & Performance

Product Code	KIT-9230-10/48/96
Sample Type	Suitable for most plant types and tissues
Input Amount	50 mg – 150 mg
Binding Mechanism	Paramagnetic Bead
Elution	60 to 100 μ l
Duration	65 minutes
Packaging Size	10, 48, 96 Preps



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1st BASE Magnetic Rack

(KIT-MAG16A)



1st BASE Magnetic Rack is designed to support manual magnetic bead-based workflows and serves as an ideal companion for the PrimeMag Plant Genomic DNA Extraction Kit. It accommodates up to 16 tubes and ensures efficient, consistent bead separation, enabling smooth handling and reliable performance throughout plant genomic DNA extraction procedures.

Strong Permanent Magnet

Efficient Sample Recovery

Enhanced Sample Visibility

Quick Tube Removal

Optimized Tube Angle for Easy Aspiration

Product No.	KIT-MAG16A
Product Name	1st BASE Magnetic Rack (1.5ml/2.0ml), for 16 tubes
Application	Magnetic bead-based separation
Rack Dimension	216.9 mm (L) x 46.1 mm (W) x 47.1 mm (H)
Tube Capacity	16 tubes, Suitable for 1.5 mL/2.0 mL microcentrifuge tubes
Working Volume	0.1 mL – 2.0 mL
Operating Temperature	Magnetic rack should not be used above 50 °C



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Specialised Kits, Lab Essentials and Education

Specific solutions for pathogens, difficult matrices, cleanup, and identification

INFECTIOUS DISEASE AND PATHOGEN TESTING

PrimeWay Viral DNA/RNA Extraction Kit (KIT-9010-10/50/250)



PrimeWay Viral DNA/ RNA Extraction Kit is designed specifically for efficient purification of viral DNA and viral RNA from serum, plasma, body fluids, cell culture supernatant and viral transport medium swabs. The special feature of this kit is that it includes an inert carrier [poly-A] powder which enhances the binding of viral nucleic acid onto the silica membrane to improve its binding efficiency. It is an ideal kit to isolate low viral copies from 10E1 to 10E6 copies/mL of viral nucleic acid. The purified viral nucleic acid is optimum for qPCR, RT-PCR, RT-qPCR & Next-Generation Sequencing applications. The end-user can purify their viral DNA/RNA in less than 30 minutes.

Sensitive

Low Sample Required

Fast

Includes an Inert Carrier [poly-A] Powder

Product Code	KIT-9010-10/50/250
Sample Type	Serum, Plasma, Body Fluids, Cell Culture Supernatant and Viral Transport Medium Swabs
Yield	<1 µg
Duration	30 minutes
Packaging Size	10, 50, 250 Preps



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ENVIRONMENTAL & MICROBIOME

PrimeWay Soil DNA Extraction Kit (KIT-9060-10/50/250)



PrimeWay Soil DNA Extraction Kit is a reliable kit that is used to isolate genomic DNA from various types of soil samples, manure & water sample.

The kit features a blend of beads in different sizes, ranging from 0.1 mm to 4 mm, to maximise the extraction efficacy of bacterial and fungal DNA. The abundance of humic substances and pigments can be efficiently removed, ensuring worry-free downstream processes such as PCR. The purified DNA is suitable for PCR, Southern blot, enzyme digestion, amplicon sequencing, etc.

Versatile

High DNA Integrity

Efficient

Low Humic Acids & High DNA Purity

Product Code	KIT-9060-10/50/250
Sample Type	Soil, Manure, Water Sample
Binding Capacity	100 µg
Purity (A260/A280)	1.7 - 2.0
Duration	<60 minutes
Packaging Size	10, 50, 250 Preps



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ENVIRONMENTAL & MICROBIOME

PrimeWay Stool DNA Extraction Kit

(KIT-9070-10/50)



PrimeWay Stool DNA Extraction Kit is a robust and reliable kit designed to isolate genomic DNA from both animal and human stools as well as gut content. This kit is meticulously optimised to handle a broad spectrum of stool types such as normal, dry, hard & high-fibre animal stool. Ceramic beads coupled with homogenisation duration is perfected in this kit to maximise the lysis of the microorganism. The extracted DNA is free from PCR inhibitors, making it suitable for downstream application such as PCR, amplicon sequencing, qPCR, Southern blot, etc. Additionally, the kit has been validated for use with Next-Generation Sequencing (NGS) platforms for human stool.

Versatile

Free from PCR Inhibitors

High Purity DNA

Comparison of 16S Microbial Profiles

Product Code	KIT-9070-10/50
Sample Type	Animal & Human Stool, Gut Content
Yield	Up to 50 µg
Applications	PCR, qPCR, Southern Blot, Amplicon Sequencing
Purity (A260/A280)	1.7 - 2.0
Duration	<60 minutes
Packaging Size	10, 50 Preps



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Essential Support Tool

Stool DNA Collection Kit

(K.BUF-9107-2/10/30)

Stool DNA Collection Kit is designed for collecting, preserving, and storing stool samples for DNA extraction. It contains a non-lysis solution to ensure the stability of sample. The collected samples can be stored at room temperature for at least two years.



Stool sample can be stored at room temperature for at least 2 years

Eliminate cold chain transportation & storage

Preserve host & microorganism DNA

Contain 2 steel beads to break stool into suspension

Product Code	K.BUF-9107
Sample Type	Solid stool
Stabilisation Solution Volume	2/10/30mL (2, 10, 30 preps)
Beads	2 steel beads
Stool input	Up to 2.5g
Application	DNA extraction
Storage Temperature with Stool Sample	Room temperature: 2 years -20 °C & -80 °C : Long-term



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FOOD SAFETY AND HALAL TESTING

PrimeWay Food DNA Extraction Kit (KIT-9080-10/50)



PrimeWay Food DNA Extraction Kit is a rapid and reliable kit designed to isolate DNA from a wide range of food including raw and processed food samples originating from animal, plant, mixed sources, or cultured bacteria. It is suitable for food source authentication and GMO DNA isolation.

This kit utilises a silica-based spin column method, and no hazardous organic solvents (e.g., chloroform) are required. The extracted DNA is free from PCR inhibitors and RNA. It has been proven suitable for downstream applications such as PCR (as short as 90 bp), qPCR, amplicon sequencing, etc.

Suitable with wide range of processed food

No hazardous chemical required

Free from PCR inhibitors

RNA-free DNA. No RNase A required

Extracted DNA able to produce short DNA fragment as low as 90 bp

Product Code	KIT-9080-10/50
Sample Type	Solid Food: Chicken Ham, Pork Sausage, Crab Stick, Popcorn, Cheese, Oat, Flour, Tofu Thick/Concentrated Liquid Food: Chocolate Paste, Tomato Puree, Tomato Ketchup, Jam Liquid Food: Soya Milk, Dairy Product: Yoghurt (Target Source), Cooking Cream, Cow Milk Liquid Food with Bacteria: Cultured Milk, Bacteria, Milk, Yoghurt Gel/Gum/Gelatine: Chewing Gum, Agar, Gummy Candy, Gelatine, Gelatine Capsule
Yield	Up to 50 µg
Duration	≤ 30 min (exclude lysis incubation)
Packaging Size	10, 50 Preps



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PLANT SCIENCES

SEPa Plant Nucleic Acid Isolation Reagent Kit

(KIT-9101-125ml)



(KIT-9102-125ml)



SEPa Plant Nucleic Acid Isolation Reagent Kits are designed for efficient extraction of high-quality nucleic acids from a wide range of plant tissues, including samples rich in polyphenolics and polysaccharides.

Both kits are based on an organic solution extraction method using a cationic detergent, ensuring reliable recovery of pure nucleic acids suitable for demanding downstream molecular biology applications

Efficient

Quality

Economy

High Tolerance to Different Plant Orders

Feature	Plant DNA	Plant RNA
Target Molecule	Genomic DNA	Total RNA
Contaminant Removal	Includes RNA removal components	Includes DNA removal components
Output Purity	RNA-free genomic DNA	DNA-free total RNA
Downstream Applications	PCR, qPCR, restriction digestion, NGS, Southern blotting, Sanger sequencing	RT-PCR, qRT-PCR, gene expression analysis, RNA-seq
Primary Use Case	High-quality genomic DNA isolation	High-quality total RNA isolation
Sample Type	Plant tissues, including polyphenolic- and polysaccharide-rich samples	
Extraction Principle	Organic solution-based extraction using cationic detergent	
Suitable for NGS	Yes	



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MOLECULAR BIOLOGY ESSENTIALS

PrimeWay Plasmid II DNA Extraction Kit (KIT-9041-10/50/250)



PrimeWay Plasmid II DNA Extraction Kit is an improved version of our original kit, delivering higher yield and remains high purity.

Using the proven alkaline lysis method, it efficiently extracts high-quality plasmid DNA from bacteria with ease. The purified plasmid is ready for a wide range of downstream applications, including DNA sequencing, PCR, restriction mapping, cloning, and DNA labeling.

High Purity

Maximized Recovery

Higher Capacity

Enhanced Performance

Product Code	KIT-9041-10/50/250
Sample Type	1 to 7 mL bacterial culture
Plasmid Size	Up to 15 kb
Binding Capacity	60 µg
Yield	Up to 40 µg
Elution	50 to 100 µL
Duration	< 25 minutes
Packaging Size	10, 50, 250 Preps



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MOLECULAR BIOLOGY ESSENTIALS

PrimeWay Gel Extraction/PCR Purification II Kit (KIT-9051-10/50/250)



PrimeWay Gel Extraction/PCR Purification II Kit is an improved version of our original kit, designed for faster and easier DNA purification. With a ready-to-use silica spin column, DNA can be purified in just 16 minutes with high recovery.

The kit removes unwanted components such as primers, dNTPs, enzymes, salts, and short PCR fragments (< 65 bp), providing DNA that is ready for downstream applications like sequencing, PCR, cloning, and DNA labeling.

Fast

Higher Recovery

Convenience

Efficient

Product Code	KIT-9051-10/50/250
Sample Type	Unpurified PCR product
DNA Size	65 bp to 15 kb
Binding Capacity	20 µg
Recovery	Up to 100%
Elution	30 to 50 µL
Duration	Gel Extraction ~16 minutes; PCR Purification ~6 minutes
Packaging Size	10, 50, 250 Preps



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BARCODING AND EDUCATION

Bacterial and Fungal DNA Barcoding Kits

1st BASE Bacterial and Fungal DNA Barcoding Kits are designed to amplify conserved region of bacterial 16s rRNA gene and fungal ITS gene respectively for Sanger sequencing. They come with the option to enable crude nucleic acid extraction using high salt solution-based extraction method within 30 minutes or overnight incubation. All kits include PCR primers, PCR reagents and optimized PCR protocol to generate PCR products for Sanger sequencing.

Customers can align and BLAST the obtained sequencing results to their choice of database for barcoding purposes. It is an ideal kit to perform DNA barcoding for pure isolates of bacterial and fungal samples readily.

Quality

Robust

Convenience

All-In-One



Bacterial DNA Barcoding Kit
(KIT-1100-50)

**Bacterial DNA Barcoding Kit,
without nucleic acid extraction**
(KIT-1110-50)



Fungal DNA Barcoding Kit
(KIT-1200-50)

**Fungal DNA Barcoding Kit,
without nucleic acid extraction**
(KIT-1210-50)

A special feature of our kits is that it also includes sequencing primers with proven priming efficiency that is optimal for Sanger sequencing. The generated PCR products from 1st BASE DNA Barcoding kits are ready for 1st BASE Sequencing+ PLUS services directly.

If customer choose to sequence the PCR products by themselves or send their PCR products for other sequencing provider, the PCR products need to be purified before sequencing.



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BARCODING AND EDUCATION

Classroom PCR Teaching Kit (KIT-7839-10)



This teaching kit focuses on the amplification of DNA using PCR technique, followed by qualitative detection of the PCR product using agarose gel-electrophoresis, and finally sending the PCR product for Sanger Sequencing to obtain the sequences.

WHY USE OUR TEACHING KIT?

- Kit Manual is equipped with Theories and Experiment Protocols
- Time-saving, Ready-to-use
- Value for Money

WHO SHOULD BUY?

- Educators Involve in Biotechnology Courses
- Private/Government Body Looking for Basic Molecular Technique Training Materials
- Researchers from Non-molecular Field

Kit Components	Application	Storage
PCR Enzymes & Buffers; Primers, DNA template, Controls, Water	PCR	-20 °C
FloroRed Stain, 6X Loading Dye 1kb DNA Ladder	Electrophoresis	4 °C
Agarose, TBE Buffers, PCR tubes	-	RT



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Additional Buffers and Reagents

Specific solutions for pathogens, difficult matrices, cleanup, and identification



Buffers

PRODUCT DESCRIPTION

RBC Lysis Buffer
Plant Lysis Buffer, 125mL
Bacterial/ Fungal Lysis Buffer
Tissue Lysis Buffer, 150mL
Bacterial Pre-Lysis Buffer, 50mL
Sperm Lysis Buffer, 50mL
Stool DNA Collection Kit, 10mL

PRODUCT CODE

K.BUF-9101-100ml
K.BUF-9102-125ml
K.BUF-9103-50ml
K.BUF-9104-150ml
K.BUF-9105-50ml
K.BUF-9106-50ml
K.BUF-9107-10ml

Reagents

PRODUCT DESCRIPTION

Binding Enhancer for Plant Lysis Buffer, 1mL
Lithium Chloride Solution, 8M
DNA Removal Reagent Kit
Diluent Solution
3M Sodium Acetate, pH5.2
Zymolyase(R)-20T, 20000 U/g, 1g
Lysozyme, 110 mg/vial
RNase A Solution, 100mg/mL, 1mL
Proteinase K, 20 mg

PRODUCT CODE

K.RGT-9101-1ml
K.RGT-9102-10ml
K.RGT-9103-250U
K.RGT-9105-50ml
K.RGT-9106-1.5ml
K.RGT-9107-20000U
K.RGT-9108-110mg
K.RGT-9110-1mL
K.RGT-9111-20mg



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PrimeAmp Enrichment Suite

From Valid Amplicons to Ready-to-Use Kits



PrimeAmp Enrichment Suite takes your amplicon project from design all the way to a ready-to-use kit. Starting with collaborative design, custom primer synthesis, and PCR optimization, we validate amplicons through agarose gel analysis, fragment profiling, short-read sequencing (Sanger, Illumina), and long-read sequencing (Oxford Nanopore).

After validation, your project is delivered as a complete kit, including primers, PCR reagents, and an optimized PCR protocol tailored to your workflow. This end-to-end service ensures accuracy, reproducibility, and efficiency, allowing you to focus on discovery without the hassle of managing multiple vendors or processes.

Customizable Panel Design

Singleplex, multiplex, and varied amplicon sizes

Validated Amplicons

Gel, fragment, short-read and long-read sequencing

Complete Ready-To-Use Kits

Primers, PCR reagents, and optimized protocols

Local Manufacturing Advantage

Faster turnaround and small-sample flexibility

Built-in Bioinformatics

Tailored analysis and reporting options

Service Workflow



PCR Optimization

- Custom primer design & synthesis
- Reliable wet-lab validation for confidence



Amplicon Analysis

- Quality check with agarose gel & fragment profiling
- Short-read sequencing (Sanger, Illumina)
- Long-read sequencing (Oxford Nanopore)

Bioinformatics

- Comprehensive data analysis & insights
- Flexible, tailored reporting formats



Kit Manufacturing

- Complete kit packaging ready for your lab workflow

Project Design

- Collaborative project discussions
- Review of key references and research papers
- Define your PCR objectives
- Strategic amplicon design



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Proven Projects for Sequencing

Sample Type	Enrichment Size (bp)	Amplicon Size (bp)	PCR Type	Sequencing Method
Porcine ASFV	175K–195K	4K–9K	Multiplex	Third-Generation Sequencing (long-reads)
Bovine LSDV	150K	7K–7.5K	Singleplex	Next-Generation Sequencing (short-reads)
Avian NDV/IBD/IBV	15K–30K	535–1.6K	Singleplex	Sanger Sequencing
Avian PBF/D/APV	2K–5K	298–717	Singleplex	Sanger Sequencing
Plant PMWaV	12K–15K	499–610	Singleplex	Sanger Sequencing
Human Dengue Virus (DENV 1 and 2)	10K–10.7K	1–1.5K	Singleplex	Next-Generation Sequencing (long-reads)
Human Dengue Virus (DENV 3)	10K–10.7K	400	Multiplex	Next-Generation Sequencing (short-reads)
Human Chikungunya Virus	11.8K	400	Multiplex	Next-Generation Sequencing (short-reads)
Human Norovirus GII BC	7.5K–7.7K	569	Multiplex	Next-Generation Sequencing (short-reads)
Human HBV	3.2K	1.3K	Nested	Sanger Sequencing

Why Choose 1st BASE ?

Design-to-Kit Delivery

Move seamlessly from project design to a validated kit, ready for direct use in your lab

Confidence at Every Step

Custom primers, validated PCR reagents, and optimized protocols ensure reproducibility

Time & Cost Savings

Eliminate the hassle of coordinating multiple vendors or managing fragmented workflows

Flexibility & Scalability

Tailored for pilot studies, large-scale projects, or specialized research needs

Comprehensive Insights

Built-in bioinformatics support for data interpretation and reporting



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