



Genomics

WHERE RESEARCH
MEETS DIAGNOSIS

BIO-HELIX 
CO., LTD.

RNA Reagent

RScript Reverse Transcriptase

Cat No : RT001-0250
Size : 250 reactions (50Rxns x5)

RScript™ Reverse Transcriptase cDNA Synthesis Kit

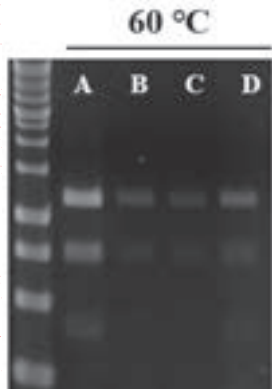
Cat No : RK001-0050
Size : 50 reactions

RIBOAssure™ Nuclease Inhibitor

Cat No : RI001-0125
Size : 5000U(40U/μl)

RScript™ Reverse Transcriptase

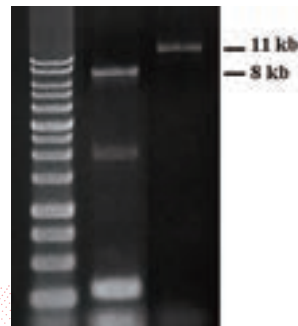
Optimal enhanced performance at **60°C**



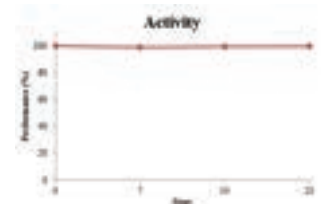
Comparison with Leading

- A: Bio-Helix RScript™ #RT001
- B: Promega Improm II #A3802
- C: Thermo SuperScript III #18080093
- D: SuperScript IV #18090010

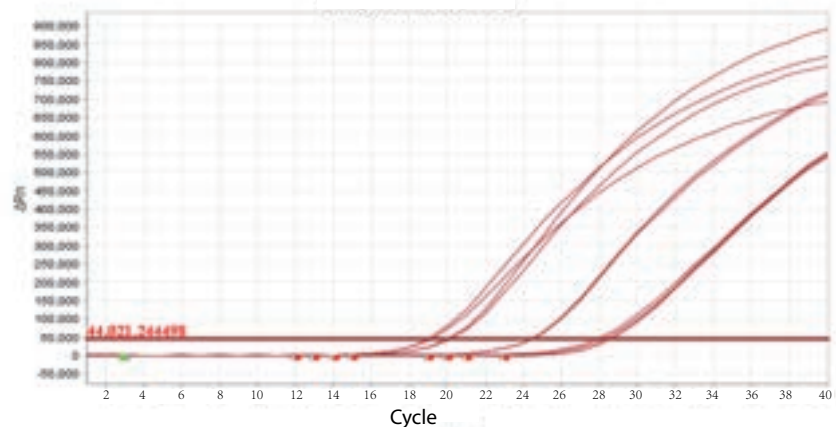
Extension ssRNA template up to **11kb**



Thermal stability at 37°C for
over **3 Weeks**



Amplification Plot



Excellent reverse transcriptase for
challenging COVID-19 RNA detection

APPLICATION

1. Gene Expression (mRNA) Analysis
2. Copy Number Analysis
3. SNP Genotype Analysis

The result of clinical SARS-CoV-2 positive specimens.

Bio-Helix RScript™ Reverse Transcriptase applied in the COVID-19 RT-qPCR
Detection Kit as One-Step RT-qPC Kit



Real-Time PCR Reagents

SYBR Green-based qPCR & RT-qPCR

PanGreen™ Universal SYBR® Green Master Mix

PanGreen™ One-Step RT-qPCR Kit

Cat No: QSR01-0100

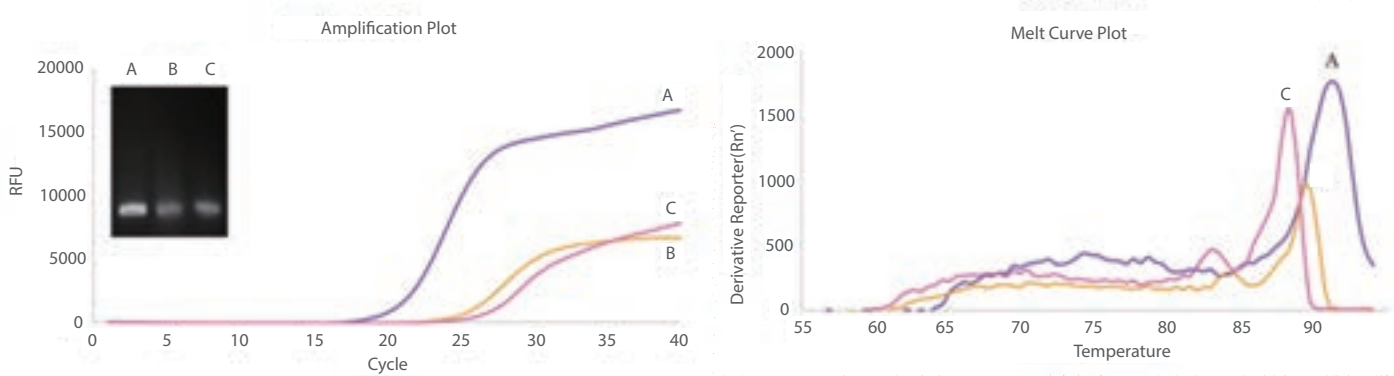
Size: 100 reactions (20 µl vol)

PanGreen™ Universal SYBR® Green Master Mix

Cat No: QSD01-0100

Size: 100 reactions (20 µl vol)

Higher Sensitivity of PanGreen™ Universal SYBR® Green Master Mix



	Ct
A Pan Green™ Universal SYBR® Green Master Mix	21.29
B RealStar Green Fast Mixture, Cat.A301-01	24.70
C iTaq™ Universal SYBR® Green Supermix, Cat.1725120	23.75

- **Enhanced** nano complex-mediated hot start enzyme DNA polymerase
- **Maximizes** product yield with nano technology
- **Eliminates** nonspecific bands during reaction
- **Compatible** with the majority of qPCR systems

Real-Time PCR Reagents

Probe-based qPCR & RT-qPCR

PanProbes™ One-Step RT-qPCR Kit

PanProbes™ One-Step RT-qPCR Kit

Cat No: QPR01-0100

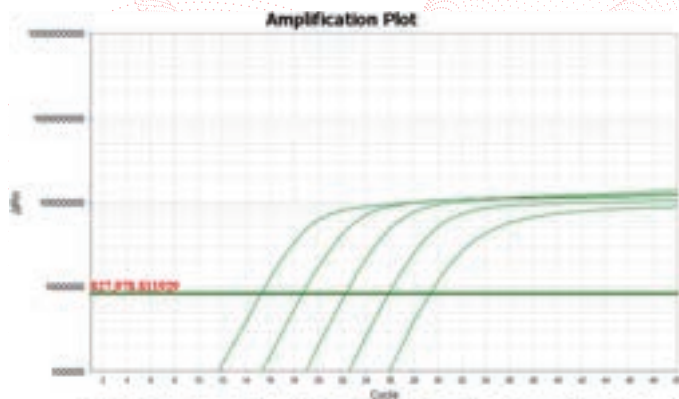
Size: 100rxns (20 µl vol)

PanProbes™ Universal qPCR MasterMix

Cat No: QPD01-0100

Size: 100 reactions (20 µl vol)

- **Enhanced** RScript™ Reverse Transcriptase with RNase™ Inhibitor
- **Optimized** for Probe-based real-time PCR
- **Compatible** with the majority of qPCR systems



RNA conc.	2pg (1.5*10 ⁷ copy)	200fg (1.5*10 ⁶ copy)	20fg (1.5*10 ⁵ copy)	2fg (1.5*10 ⁴ copy)	200ag (1.5*10 ³ copy)
Ct	14.761	18.29	21.546	24.713	27.676

Superior Dynamic Range and Sensitivity Performance of PanProbes™ One-Step RT-qPCR Master Mix

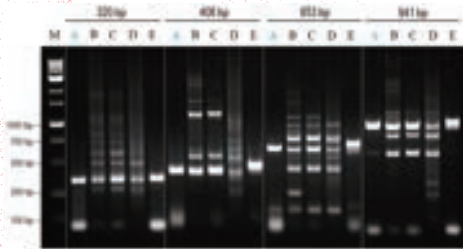
Type of ROX	Cat. No.
Low	QPR01-L100, QPD01-L100, QSR01-L100, QSD01-L100
High	QPR01-H100, QPD01-H100, QSR01-H100, QSD01-H100
Not contained	QPR01-0100, QPD01-0100, QSR01-0100, QSD01-0100

PCR Reagent

nanoTaq™ Hot-Start DNA Polymerase

Cat No: DP001-0100
Size: 100rxns (500units /100µl)

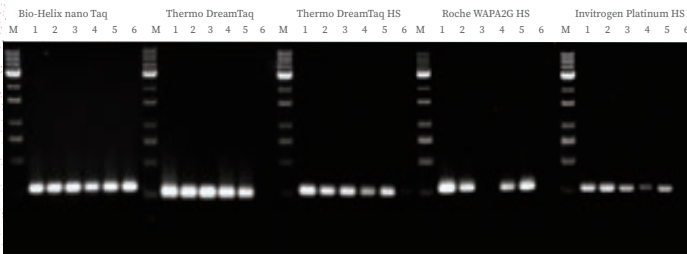
- An innovative nano technology derived Taq that greatly **increases the specificity of PCR**
- **Great resistance** in PCR Inhibitors, confirms to synthesize up to 5kb of PCR Products



Specificity Comparison

nanoTaq shows higher specificity and products with least shifting compared to other antibody-mediated hot start polymerases.

A. Bio-Helix nanoTaq B. Thermo DreamTaq C. Thermo DreamTaq HS
D. Roche WAPA2G HS E. Invitrogen Platinum HS



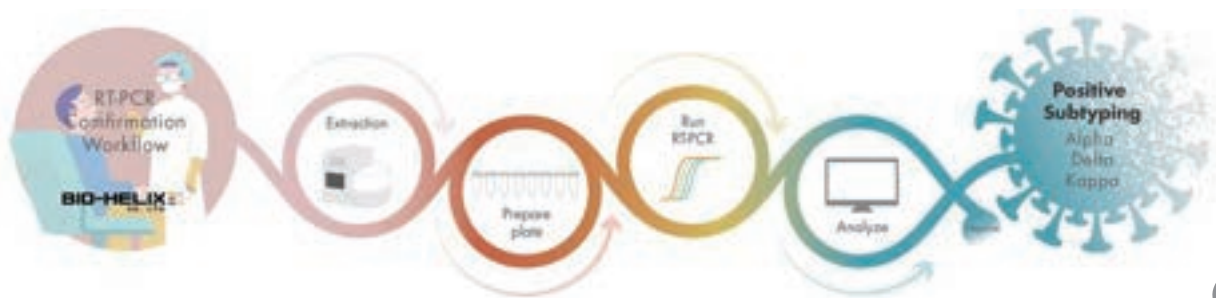
PCR Inhibitor Resistance Comparison

By conducting PCR reactions with adding common PCR inhibitors, nanoTaq shows better tolerance in both Heparin & Humic Acid comparing to other hot start polymerases.

IVD Products

COVID-19 RT-qPCR Detection Kit Plus

Cat No: QP019T-0100
Size: 100 Rxns



COVID-19 RT-qPCR Detection Kit (RUO)

Cat No: QP019-0100
Size: 100 Rxns

COVID-19 Mutation RT-qPCR Detection Kit (Alpha, Delta, Kappa)

Cat No: QP019M-0050
Size: 50 Rxns

- (1) High specificity for the N target markers as recommended by WHO and US CDC
- (2) Data obtained in less than 2 hours
- (3) Compatible with standard RT-qPCR machines (ABI 7500, Bio-Rad CFX96, QuantStudio's 7 Flex)

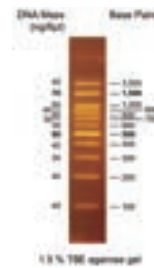
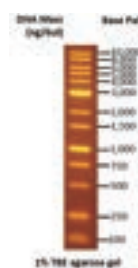
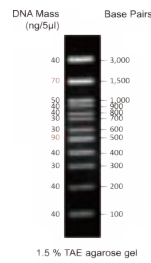
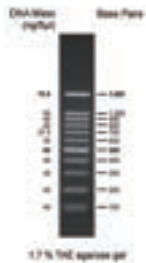
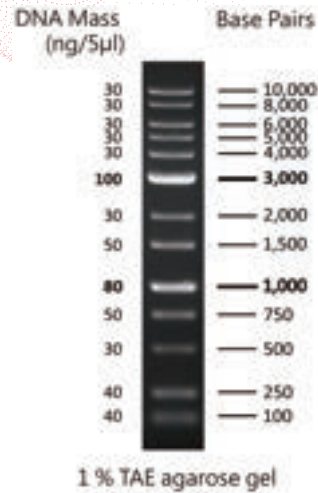
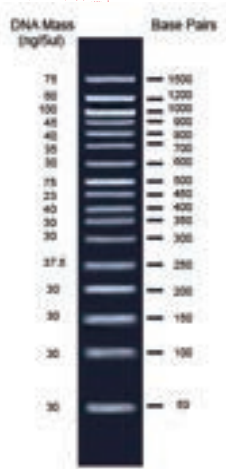
※ All the above mentioned, non Bio-Helix trademark holders are not affiliated with Bio-Helix Co., Ltd. and do not endorse these products.



DNA LADDER

BH 1Kb plus DNA Ladder RTU
Cat NO. DM017-R500

BH 1Kb plus DNA Ladder RTU
Cat NO. DM015-R500



BH 100bp DNA Ladder RTU
Cat NO. DM001-R500

BH 100bp DNA Ladder H3 RTU
Cat NO. DM003-R500

OmniMark 1K DNA Ladder RTU
Cat NO. DM115-0100

OmniMARK 100bp DNA Ladder RTU
Cat NO. DM101-0100



Agarose

Agarose Tablets

Cat No: AGT002-0500

Size: 0.59g x 110Tablets

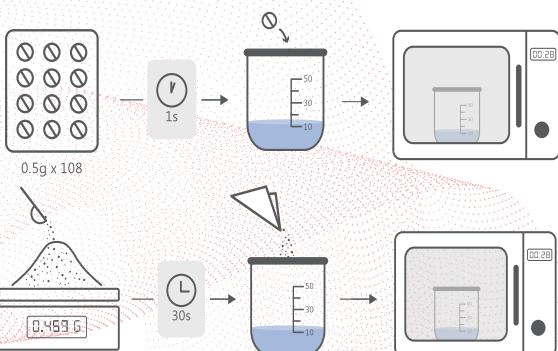
- Clean, Safe, and Consistency
- Fast, Easy, and Convenient
- High clarity and low background

- Melting Temperature : 87.9°C
- Moisture Content : 5.07%
- Sulfate Content: 0.097%
- EEO:<0.12
- RNase / DNase: non-detectable

Agarose Powder

Cat No: MB755-0500/MB755-0100

Size: 500g / 100g

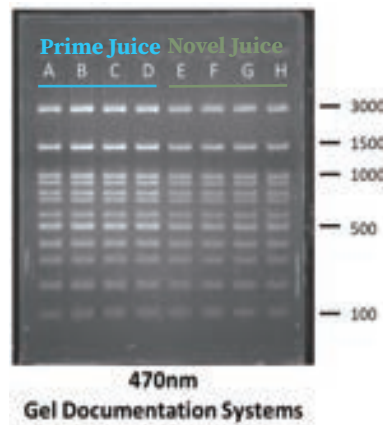
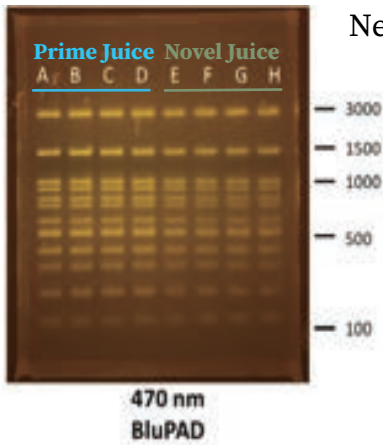


Staining Reagent

Prime Juice

Cat No: LD011-1000
Size: 1 ml

New generation Nucleic Acid Stain, no need for In Gel Staining or Post Staining.



Upgrade

Superior 174% intensity improved



Convenience

Application procedures as the 6X Loading Dye



Sensitivity

High degree of sensitivity as Ethidium Bromide



Speed

No staining / de-staining requirements



Safe

Absence of mutagenicity and presence of higher cloning efficiency



Compatibility

Use the Blue Light or UV to detect the signal



Eco-Friendly

No water pollution concern



Economic

No expenses required for the waste management

PCR Supermix

OmniPCR Supermix w Fluorescent Dye

Cat No: MBA01-0100
Size: 100 rxns (2 x 1.25ml)



Convenience

Direct loading onto the agarose gel



Speed

No post-staining processing of DNA required



Sensitivity

High degree of sensitivity equivalent to EtBr



Compatibility

Use the Blue Light or UV to detect the signal



Efficiency

Benefit for quick screening for positive clones



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2X PCR SUPERMIX

Cat No: MB200-P100

Size: 100 rxns (2 x 1.25mL)