



Genomics

WHERE RESEARCH
MEETS DIAGNOSIS

BIO-HELIX
CO., LTD.





RNA Reagent

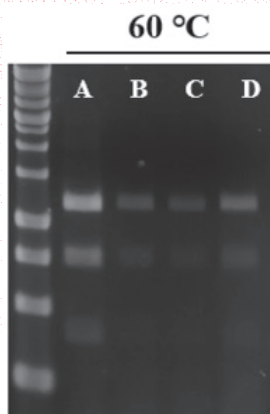
RScript™ Reverse Transcriptase

Cat No : RT001-0250

Size : 250 reactions (50Rxns x5)

RScript™ Reverse Transcriptase

Optimal enhanced performance at **60°C**



Comparison with Leading

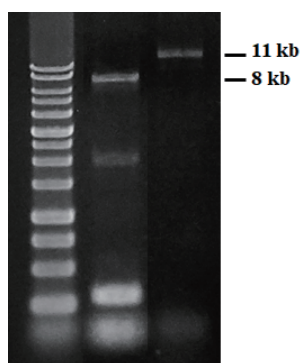
A: Bio-Helix RScript™ #RT001

B: Promega Improm II #A3802

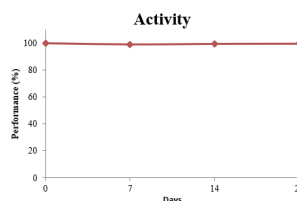
C: Thermo SuperScript III #18080093

D: SuperScript IV #18090010

Extension ssRNA template up to **11kb**



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



RScript™ Reverse Transcriptase cDNA Synthesis Kit

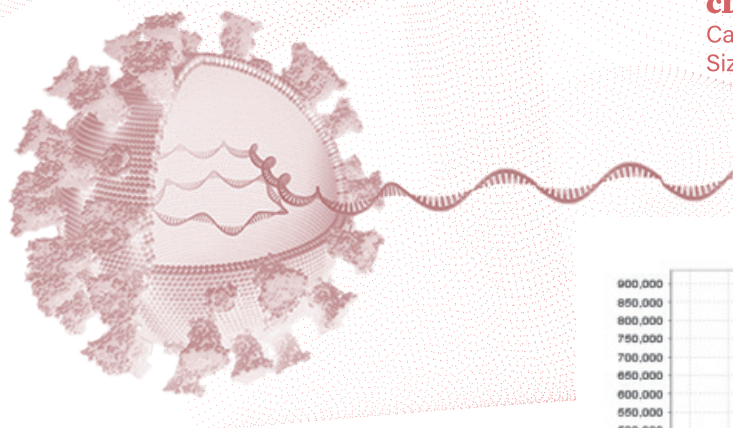
Cat No : RK001-0050

Size : 50 reactions

RIBOAssure™ Nuclease Inhibitor

Cat No : RI001-0125

Size : 5000U(40U/μl)

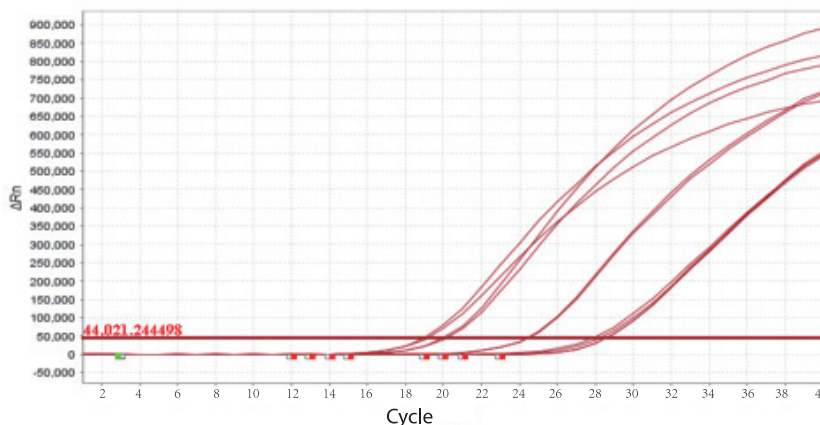


Excellent reverse transcriptase for
challenging COVID-19 RNA detection

APPLICATION

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

Amplification Plot



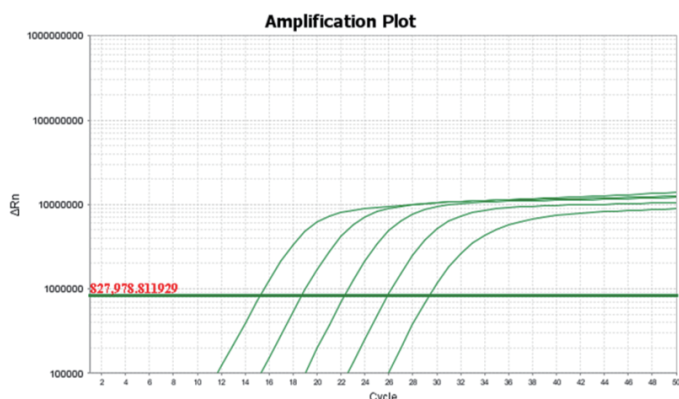
The result of clinical SARS-CoV-2 positive specimens.

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

Real-Time PCR Reagents

Probe-based qPCR & RT-qPCR

PanProbes™ One-Step RT-qPCR Kit



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

Cat No: QPR01-0100
Size: 100rxns (20μl vol)

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

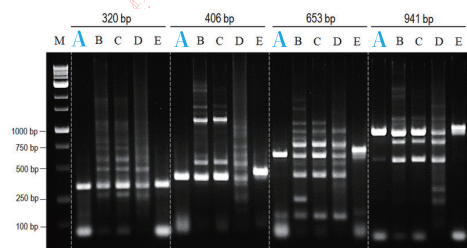
PanProbes™ Universal qPCR MasterMix

Cat No: QPD01-0100
Size: 100 reactions (20μl vol)

PCR Reagent

nanoTaq™ Hot-Start DNA Polymerase

- Engineered with an innovative nano technology complex
- Greatly reduces the nonspecific primer annealing even in GC-rich sequences
- Proven to synthesize more than 5 kb of PCR Products
- Shows better resistance in several kinds of PCR Inhibitors

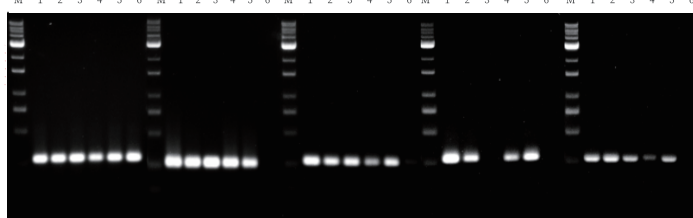


Specificity Comparison

By amplify different bp of amplicons from human genomic DNA, nanoTaq™ shows higher specificity and yield products with least band shifting as compared to other commercial antibody-mediated hot start polymerases.

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

Bio-Helix nanoTaq™ Thermo DreamTaq Thermo DreamTaq HS Roche WAPA2G HS 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.

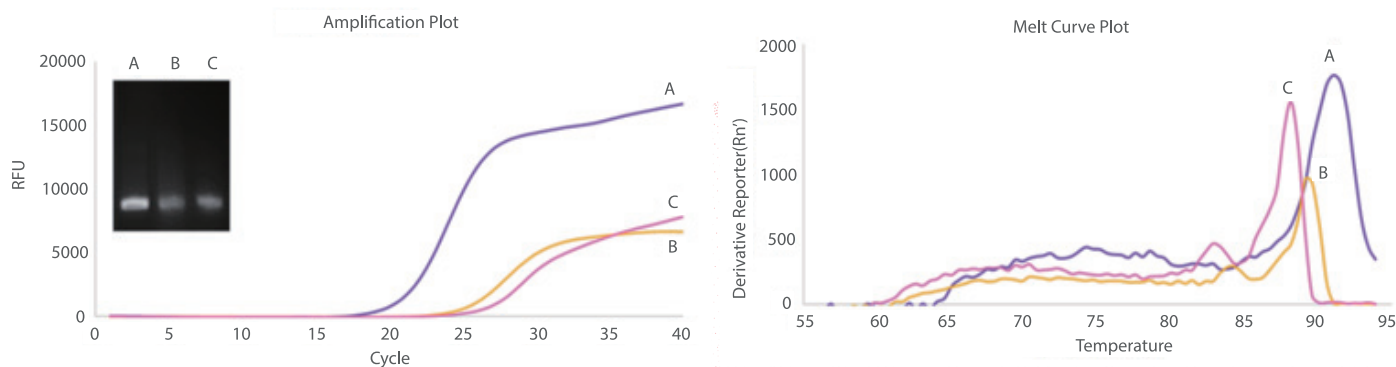
Real-Time PCR Reagents

SYBR Green-based qPCR & RT-qPCR

PanGreen™ Universal SYBR® Green Master Mix

Cat No: QSD01-0100
Size: 100 reactions (20µl vol)

Higher Sensitivity of PanGreen™ Universal SYBR® Green Master Mix



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

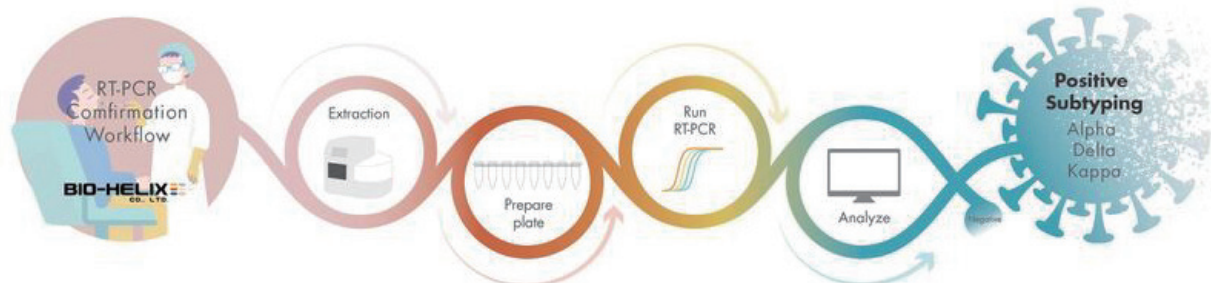
- **Enhanced** nano complex-mediated hot start enzyme DNA polymerase
- **Maximizes** product yield with nano technology
- **Eliminates** nonspecific bands during reaction
- **Compatible** with the majority of qPCR systems

PanGreen™ One-Step RT-qPCR Kit

Cat No: QSR01-0100
Size: 100 reactions (20 µl vol)

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)

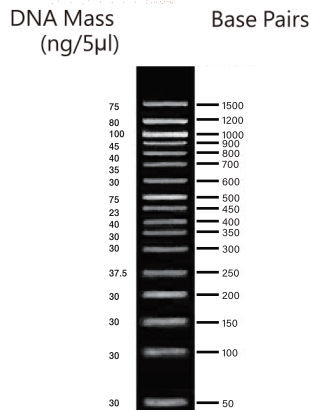
Cat No: QP019M-0050
Size: 50 Rxns

- (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)



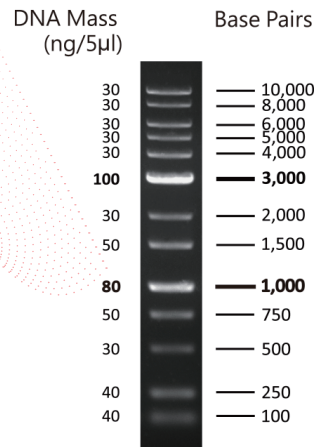
DNA LADDER

BH 50bp plus DNA Ladder RTU Cat NO. DM017-R500

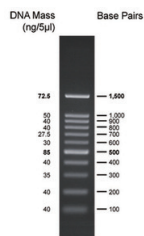


2% TBE agarose gel

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

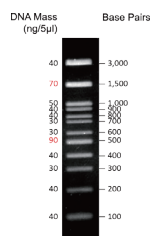


1 % TAE agarose gel



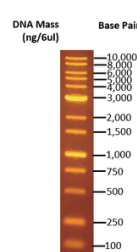
1.7 % TAE agarose gel

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



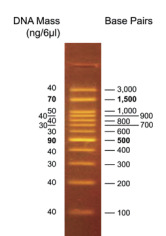
1.5 % TAE agarose gel

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



1% TBE agarose gel

OmniMark 1K DNA Ladder RTU Cat NO. DMF13-0100



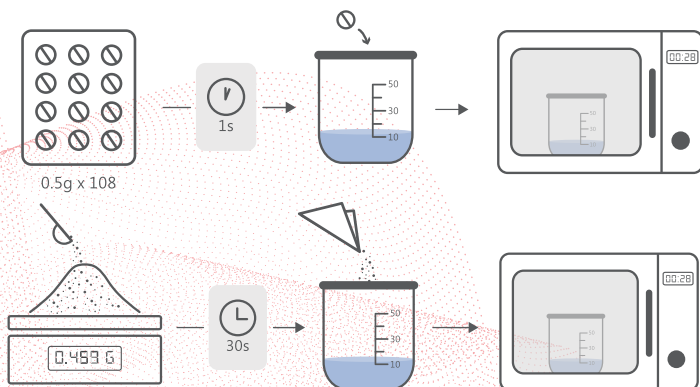
1.5 % TBE agarose gel

OmniMark 100bp DNA Ladder RTU Cat NO. DMF12-0100

Agarose

Agarose Tablets

Cat No: AGT002-0500
Size: 0.59g x 110Tablets



AGAROSE POWDER

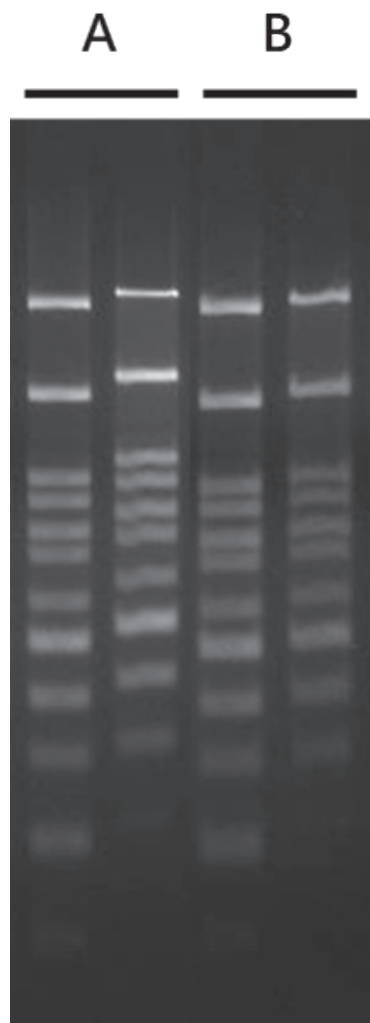
Cat No: MB755-0500/MB755-0100
Size: 500g / 100g

- 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

Staining Reagent

Prime Juice

Cat No.: LD011-1000
Size: 1 ml



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

	Product	Luminance	Intensity
A	Prime Juice	20042.711	174%
B	Novel Juice	11518.518	100%

PCR Supermix

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

OmniPCR Supermix w Fluorescent Dye



Convenience
Direct loading onto the
agarose gel



Speed
No post-staining processing
of DNA required



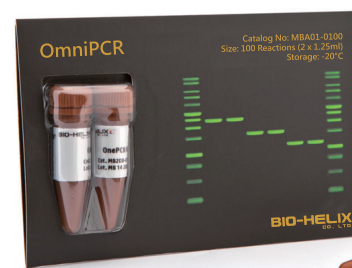
Sensitivity
High degree of sensitivity
equivalent to EtBr



Compatibility
Use the Blue Light or
UV to detect the signal



Efficiency
Benefit for quick screening
for positive clones



www.bio-helix.com +886-2-24624956

info@bio-helix.com +886-2-24628849

5F, No. 145, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City, Taiwan

2X PCR SUPERMIX

Cat No.: MB200-P100
Size: 100 rxns (2 x 1.25mL)