Stock Name: Novoprotein Stock Code: 688137



## Raw Materials for Molecular Diagnostics



Distributed by: CliniSciences Group

Novoprotein Scientific Inc.

### Enzymes

- Taq Antibody
- Taq DNA Polymerase
- HotStart Taq DNA Polymerase
- Reverse Transcriptase
- RNase Inhibitor
- Glycerol-free

## NGS Library Preparation

DNA Adapters
DNA Library Prep Kit
T4 DNA Ligase

## **PCR** Mix

- Multiplex PCR/ RT-PCR
- Lyo-Ready Multiplex PCR

## **qPCR** Mix

- Multiplex qPCR/ qRT-PCR
- MethyLight qPCR
- · Direct qPCR
- dPCR
- ·Lyo-Ready qPCR

## Isothermal Amplification

- LAMP/RT-LAMP
- TMA • Lyo-Ready



Strive to meet your needs.



Design fast, simplified, robust protocols with inhibitor-tolerant, high-performance reagents.

## Customized development & productions

Customized specifications & formulation, assisted lyophilized products development.



Liquid, glycerol-free, LyoCake, LyoBeads.



**CRISPR/Cas** 

 $\cdot Cas12$ 

### Good practices

Manufactured under ISO 13485:2016 certification.

## For real samples

Develop solutions for real samples, from challenging targets to complex & crude matrices.

## **Dedicated & Professional**

Novoprotein Scientific Inc. (Novoprotein) is a high-tech enterprise with more than 10 years of extensive experience in the recombinant protein industry, focusing on protein technology, and advanced in R&D, production, sales, and application solutions to raw materials and techniques for biopharmaceuticals, in vitro diagnosis, mRNA vaccines, and basic life science research. Our principal products include target proteins and cytokines, recombinant antibodies, molecular enzymes and reagents, as well as providing related technical services. Novoprotein possesses R&D and manufacturing bases in Shanghai, Suzhou, and Heze.



## Molecular raw materials for IVD assays

### Enzymes (include Glycerol-free format)

	Product	Cat. No.	Product Name	Page
_		E097	HotStart Taq DNA Polymerase (B)	2
0	HotStart Taq DNA Polymerase (antibody-based)	🕸 E097-03	HotStart Taq DNA Polymerase (B) (Glycerol-Free)	2
		🕸 FLE097	HotStart Taq DNA Polymerase (B) (for-Lyo)	2
<u>.</u>	Taq antibody	Z087	Taq antibody	4
0	raq antibody	₿ Z087-03	Taq antibody (Glycerol-Free)	4
_	To a DNA Dolumento	E001 Taq DNA Polymerase		7
	Taq DNA Polymerase	🎄 E001-03	Taq DNA Polymerase (Glycerol-Free)	7
<u> </u>	Heat labile Hugail DNA Chasesaless	E063 Heat-labile UDG		9
0	Heat-labile Uracil-DNA Glycosylase	* E063-03	Heat-labile Uracil-DNA Glycosylase (Glycerol-Free)	9
_	Uracil-DNA Glycosylase	E060	Uracil-DNA Glycosylase (UDG)	9
_	RNase Inhibitor	E125	Recombinant RNase Inhibitor (Murine)	11
	KNase minipitor	🅸 E125-03	Recombinant RNase Inhibitor (Murine, Glycerol-Free)	11
_		E127	DNase I	12
	DNase I	🗱 E127-03	DNase I (Glycerol-Free)	12
		🍀 LYE127	DNase I (Lyo)	12
_	Tth DNA Dolymoroco	E108	HotStart Tth DNA Polymerase	13
	Tth DNA Polymerase	🗱 E108-03	HotStart Tth DNA Polymerase (Glycerol-Free)	13
_	In angania Dynamh aonh ataoa	M031	Thermostable Inorganic Pyrophosphatase	
	Inorganic Pyrophosphatase	🕸 M031-03	Thermostable Inorganic Pyrophosphatase (Glycerol-Free)	

### Multiplex PCR Mix

	Product	Cat. No.	Product Name	Page
8	Multiplex PCR Mix	E086-YSAA	5×Multiplex PCR Mix	14

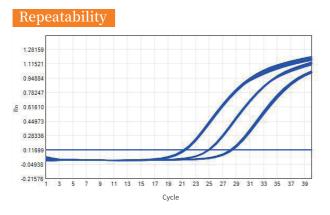
### LAMP / RT-LAMP Master Mix

Product	Cat. No.	Product Name	Page
LAMP Master Mix	E223	2×LAMP Master Mix with Dye	15
LAMP Master Mix (for-Lyo)	🔹 FLE223	2×LAMP Master Mix with Dye (for-Lyo)	15
LAMP Master Mix (Lyo-Beads)	🎄 LBE223	LAMP Lyophilized Beads	15
RT-LAMP Kit	E220	$2 \times \text{RT-LAMP}$ Kit with Dye	15
RT-LAMP Master Mix (for-Lyo)	🏶 FLE220	$2 \times \text{RT-LAMP}$ Master Mix with Dye (for-Lyo)	15
RT-LAMP Master Mix (Lyo-Beads)	* LBE220	RT-LAMP Lyophilized Beads	15
Cas12a	E373-YH01	LbaCas12a Nuclease	16

🔥 HOT 🛛 🗱 For-lyo / Lyo formats

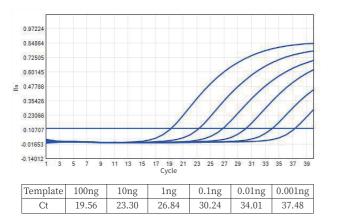
## HotStart Taq DNA Polymerase (antibody-based)

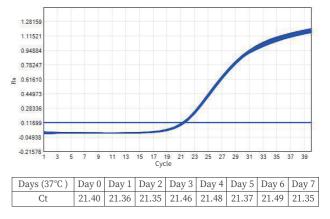
- Fast hot start
- Generate fragments with high specificity
- High stability: No difference in performance after 7 days at 37°C,
- 25 freeze thaw cycles



**Sensitivity** In a 20µl reaction system, an antibody-modified hot-start Taq DNA polymerase (Cat# E097) was used, with 100ng gDNA as the high concentration input, followed by 10-fold gradient dilution until it was diluted to 1pg. The result shows that E097 can amplify the target fragment from a pg-level template.

**Stability** After 7 days at 37° C, the difference in the Ct value of the amplification results was less than 0.5, indicating that 7 days at 37° C did not affect the performance and E097 had good stability.

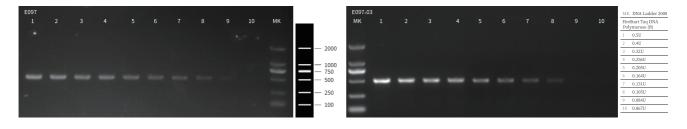




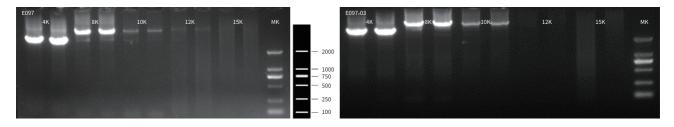
## HotStart Taq DNA Polymerase (antibody-based)

### HotStart Taq DNA Polymerase (B) (Glycerol-Free)

**Dosage** In a 40μl reaction system, with 5ng λDNA plasmid as template, 0.105U of HotStart Taq DNA polymerase (glycerol-free, Cat# E097-03) and HotStart Taq DNA polymerase (Cat# E097) can amplify the target fragment normally.



Amplified fragment lengthIn a 40µl reaction system, both 1.25U of HotStart Taq DNA polymerase (glycerol-free,Cat# E097-03) and HotStart Taq DNA polymerase (Cat# E097) can amplify the 10Kb fragment normally.



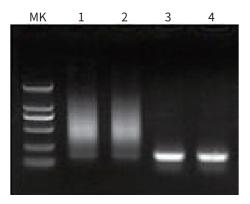
### Product Information

SKU	Product Name	Size
E097-01A		250U
E097-01B		250U×5
E097-02A		250U
E097-02B	— HotStart Taq DNA Polymerase (B)	250U×5
E097-02-M001		5KU
E097-04-M010		50KU
E097-03A		250U
E097-03B	*** 11.10(	2500U
E097-03-H30-U500	——— 🗱 HotStart Taq DNA Polymerase (B) (Glycerol-Free)	15KU
E097-03-H50-U010		500U
FLE097-U050		250U
FLE097-U500	🕸 HotStart Taq DNA Polymerase (B) (for-Lyo)	2500U

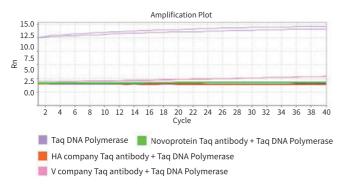
## Anti-Taq antibody for hot start PCR

## • Helps to prevent mispriming and non-specific amplification derived from primer dimers.

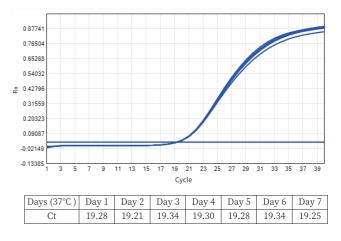
**Specificity** In a 50µl reaction system, 50ng of human genomic DNA was used as a template to amplify a specific gene fragment (170bp).



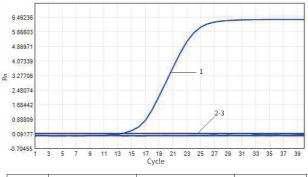
Lane M: DNA Ladder 2000 Lane 1, 2: Taq DNA polymerase Lane 3, 4: Novoprotein Taq antibody (Cat# Z087) + Taq DNA polymerase



A diagnostic company used Taq antibodies from companies (Novoprotein, HA, and V) to prepare qPCR reaction systems with Taq DNA Polymerase, and compared them with ordinary Taq DNA Polymerase (negative control). Without hot start, the results showed that Novoprotein's Taq antibody (Cat# Z087) had a better inhibitory effect on Taq DNA Polymerase than V. **Sensitivity** The amplification results of Taq DNA polymerase modified by Taq antibody (Cat# Z087) after being placed at 37°C for 7 days showed that the Ct value difference was less than 0.5, indicating that placing at 37°C for 7 days did not affect the performance and the product had good stability.



**Nucleic acid residue detection** The amplification results of the samples were consistent with the negative control, with no amplification curve and no nucleic acid residue in the Novoprotein Taq antibody (Cat# Z087).



	1) Positive control	2) Negative control	3) Sample
Ct	13.56	Undetermined	Undetermined

Positive control: 0.5ng cDNA + Novoprotein Taq antibody (Cat# Z087) + Taq DNA polymerase

Negative control: Taq DNA polymerase

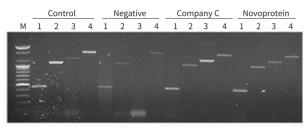
Sample: Novoprotein Taq antibody (Cat# Z087) + Taq DNA polymerase



## Anti-Taq antibody for hot start PCR

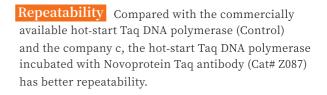
### **Client Feedback**

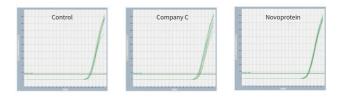
**Specificity** The target gene was amplified after Taq antibody bound to Taq DNA polymerase. The results showed that Novoprotein Taq antibody (Cat# Z087) has higher specificity.



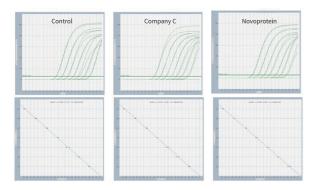
Control: hotstart taq premix Company C: Taq antibody + Taq DNA polymerase (1U:1U) Novoprotein: Taq antibody + Taq DNA polymerase (1U:1U)

Amplification Efficiency The target gene was amplified after Taq antibody bound to Taq DNA polymerase. The results showed that Novoprotein Taq antibody (Cat# Z087) has better efficiency.

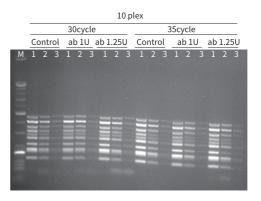




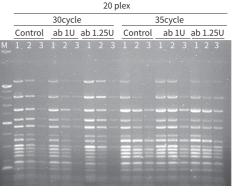
**Multiplex Amplification Detection** Compared with a commercially available hot-start Taq DNA polymerase (Control), the hot-start Taq DNA polymerase incubated with Novoprotein Taq antibody (Cat# Z087) can perform 10-20-plex PCR amplifications with as little as 1 ng of template.



Сору	Con	itrol	Comp	any C	Novop	orotein
	-0.3183	-0.3208	-0.3199	-0.3237	-0.3093	-0.3165
Linearity						
Efficiency	108%	109%	109%	111%	104%	107%
1.00E+07						
1.00E+06	22.59	22.41	22.52	22.62	22.43	22.50
1.00E+05	25.58	25.82	25.92	25.80	25.90	26.02
1.00E+04	29.08	28.81	29.02	29.02	29.11	28.75
1.00E+03						
1.00E+02	34.77	35.15	35.15	34.42	35.19	35.17
1.00E+01						
NTC			Undete	rmined		



Lane 1. 100ng Lane 2. 10ng Lane 3. 1ng



Lane 1. 100ng Lane 2. 10ng Lane 3. 1ng

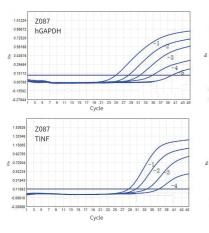
## Anti-Taq antibody for hot start PCR

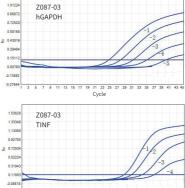
### Taq antibody (Glycerol-Free)

Probe qPCR performance test

The sensitivity of the Taq antibody (glycerol-free, Cat# Z087-03) and the Taq probe aPCR detection is the same.

antibody with glycerol (Cat# Z087) in probe qPCR detection is the same.



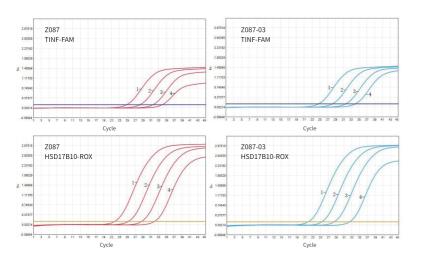


3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45
	3	3 5	3 5 7	3 5 7 9	3 5 7 9 11	3 5 7 9 11 13	3 5 7 9 11 13 15	3 5 7 9 11 13 15 17	3 5 7 9 11 13 15 17 19	3 5 7 9 11 13 15 17 19 21	3 5 7 9 11 13 15 17 19 21 23	3 5 7 9 11 13 15 17 19 21 23 25	3 5 7 9 11 13 15 17 19 21 23 25 27	3 5 7 9 11 13 15 17 19 21 23 25 27 29	3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33	3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35	3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43

	Template	Z087	Z087-03
1	100ng	24.92	24.78
2	10ng	28.32	27.97
3	1ng	31.42	31.34
4	100pg	34.82	35.10
5	10pg	40.07	40.21

	Template	Z087	Z087-03
1	100ng	28.83	28.65
2	10ng	30.65	30.65
3	1ng	33.40	33.57
4	100pg	36.87	36.87

Multiplex Probe qPCR performance test The sensitivity of the Taq antibody (glycerol-free, Cat# Z087-03) and the Taq antibody with glycerol (Cat# Z087) in probe qPCR detection is the same.



	Template	Z087	Z087-03
1	100ng	26.95	27.05
2	10ng	29.43	30.09
3	lng	33.97	34.07
4	100pg	38.01	37.97

	Template	Z087	Z087-03
1	100ng	24.55	24.24
2	10ng	27.01	26.24
3	1ng	29.42	29.06
4	100pg	31.76	30.96

### Product Information

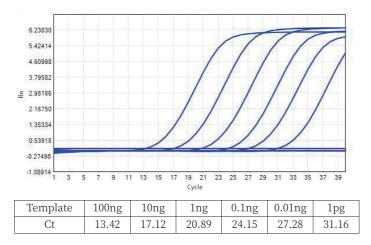
SKU	Product Name	Size
Z087-01A		250U
Z087-01B	 	250U×5
Z087-M001	———— Taq antibody	5000U
Z087-M200		1000KU
Z087-03-HC40-U025		1000U
Z087-03-HC40-U125		5000U
Z087-03-HC40-M010	🎄 Taq antibody (Glycerol-Free)	400KU
Z087-03-HC80-U010		800U
Z087-03-HC80-M010		800KU
	Dist	ributed by:

CliniSciences Group

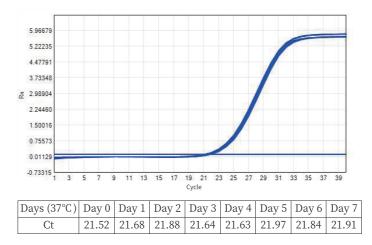
## **Taq DNA Polymerase**

- The length of the amplified fragment can reach 10Kb
- The target fragment can be amplified from pg-level templates
- High stability: Performance is not affected when placed at 37°C for one week

**Sensitivity** In a 20µl reaction system, an Taq DNA polymerase (Cat# E001) was used, with 100ng gDNA as the high concentration input, followed by 10-fold gradient dilution until it was diluted to 1pg. The result shows that E001 can amplify the target fragment from a pg-level template.



**Stability** After 7 days at 37° C, the difference in the Ct value of the amplification results was less than 0.5, indicating that 7 days at 37° C did not affect the performance and E001 had good stability.



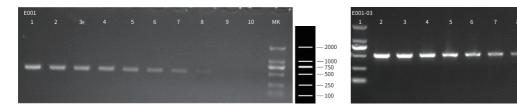
0.164

15K

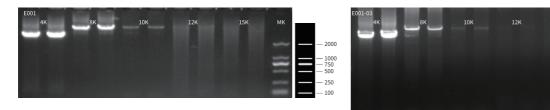
## **Taq DNA Polymerase**

### Taq DNA Polymerase (Glycerol-Free)

Dosage In a 40µl reaction system, with 10ng λDNA plasmid as template, 0.105U of Taq DNA polymerase (glycerol-free, Cat# E001-03) and Taq DNA polymerase (Cat# E001) can amplify the target fragment normally.



Amplified fragment lengthIn a 40µl reaction system, both 1.25U of Taq DNA polymerase (glycerol-free, Cat#E001-03) and Taq DNA polymerase (Cat# E001) can amplify the 10Kb fragment normally.



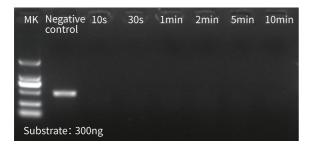
### Product Information

SKU	Product Name	Size
E001-01A		500U
E001-01B		500U×5
E001-01-M001		5000U
E001-02A	———— Taq DNA Polymerase	500U
E001-02B		500U×5
E001-02-M001		5000U
E001-03A		500U
E001-03B	🎄 Taq DNA Polymerase (Glycerol-Free)	5000U
E001-03-H50-U010		500U
E005-01A		1ml×5
E005-01B	———— 2×Taq Master Mix	$(1ml \times 5) \times 5$
E005-02A	Define the stephenic (Original Terry)	1ml×5
E005-02B	———— 2×Taq Master Mix (Quick Load)	$(1ml \times 5) \times 5$

## **Heat-labile UDG**

• Incorporating UDG with dUTP in a PCR reaction can help minimize contamination caused by carryover products from amplification.

The capacity of carryover product digestion In a 20µl reaction system, 1U of heat-labile UDG (Cat# E063) can digest 300ng of uracil-containing product at 37°C for 10s.

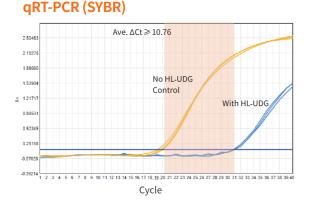


#### **Inactivated conditions**

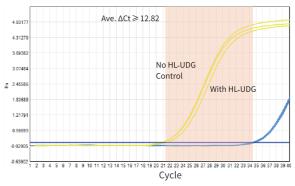
When the amount of heat-labile UDG (Cat# E063) added to the reaction system is 5U, the heat-labile UDG can be completely inactivated at 94°C for 10s or 50°C for 5min; when the amount of heat-labile UDG added to the system is 2U, the heat-labile UDG can be inactivated at 94°C for 10s or 50°C for 1min.

94°C			5U						2U				50°C		51	J		
	10s	20s	30s	1min	2min	М	10s	20s	30s	1min	2min	М		1min	2min	5min	10min	М
						IIII						IIII						IIII
	_		_	-	-	=	_	_	_	_	_	=				-	-	Ξ
						-												
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Evaluation of qRT-PCR carryover prevention To evaluate the capacity of carryover product digestion, a uracilcontaining PCR product was generated. The uracil-containing product were used as template for subsequent qRT-PCR reactions, the  $\Delta$ Ct value is the cycle difference between carryover treatment and no carryover treatment of the same input. Larger  $\Delta$ Ct values indicate more efficient carryover product digestion.



#### **qRT-PCR** (Probe)



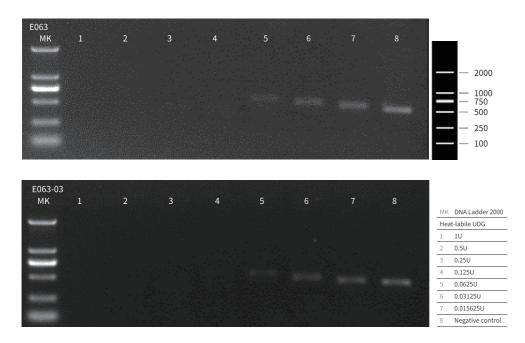
2U 1min 2min 5min 10min

М

## Heat-labile UDG

### Heat-labile Uracil-DNA Glycosylase (Glycerol-Free)

**Dosage** The carryover product digestion ability of Heat-labile Uracil-DNA Glycosylase (Glycerol-Free, Cat# E063-03) and heat-labile UDG with glycerol (Cat# E063) is the same.

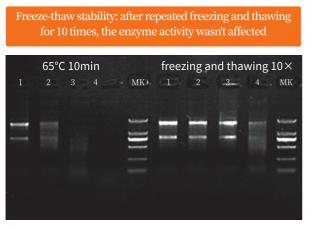


### Product Information

SKU	Product Name	Size
E063-U100		100U
E063-U500	Heat-labile UDG	500U
E063-M005		5KU
E063-03A		100U
E063-03B	🗱 Heat-labile Uracil-DNA Glycosylase (Glycerol-Free)	500U
E063-03-H50-U010		500U
E060-01A	Luppil DNA Chaparlage (LDC)	200U
E060-01B	Uracil-DNA Glycosylase (UDG)	200U×5

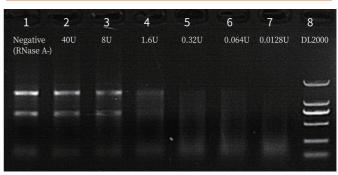
## **RNase Inhibitor**

RNase Inhibitor, Murine is a 50 kDa recombinant protein of murine origin. The inhibitor specifically inhibits RNases A, B and C. It inhibits RNases by binding noncovalently in a 1:1 ratio with high affinity. RNase Inhibitor, Murine has significantly improved resistance to oxidation compared to the human/porcine RNase inhibitors, and is stable at low DTT concentrations (less than 1 mM). This makes it ideal for reactions where high concentration DTT is adverse to the reaction (eg. Real-time RT-PCR).



At 65°C for 10min, more than half of the enzyme activity can be retained at 40U, and the enzyme activity is basically unaffected by freeze-thaw for 10 times.

Lane 1: 40U enzyme activity was not treated Lane 2: 40U Lane 3: 8U Lane 4: 1.6U High enzyme activity: after high dilution, it still has high enzyme activity



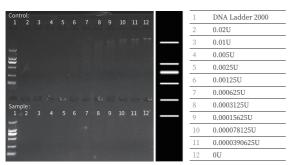
 $1\mu l$  of RNase Inhibitor was added to each system after 1/5 gradient dilution of RNase Inhibitor from 40U/µl. Finally, 1µl of 5pg RNase A was added to each system.

### Product Information

SKU	Product Name	Size
E125-01A		3000U
E125-01B	Recombinant RNase Inhibitor (Murine)	3000U×5
E125-03A		3000U
E125-03B	🗱 Recombinant RNase Inhibitor (Murine, Glycerol-Free)	3000U×5
E125-03-H200-U010		2KU

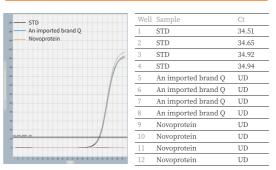
## DNase I

## High enzyme activity: the human genome can be digested by trace amounts



Data conclusion: The sample is consistent with the control.

## Excellent performance: efficient removal of DNA residue in samples \_\_\_\_\_



Sample: Mouse kidney (~20 mg) compared with an imported brand Q, both can remove DNA residue in RNA samples very well.

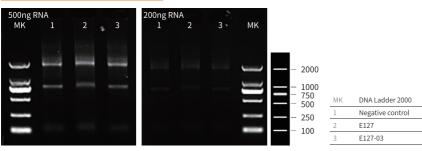
### DNase I (Glycerol-Free)

#### Dosage



In a 20 µl reaction system, using 200 ng of ctDX004 plasmid as template, 0.0005 U of DNase I (Glycerol-Free, Cat# E127-03) or DNase I containing glycerol (Cat# E127) can completely digest the ctDX004 plasmid.

### RNase residue detection



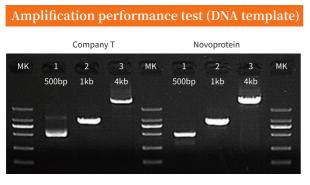
The RNA is intact, and there is no RNase residue in both the DNase I (Glycerol-Free, Cat# E127-03) or DNase I containing glycerol (Cat# E127).

### Product Information

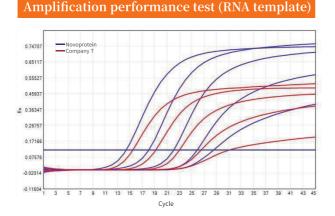
SKU	Product Name		Size
E127-01A			200U
E127-01B	DNase I		200U×5
E127-M010			10KU
E127-03A			200U
E127-03B			2000U
E127-03-M020	———— 🗱 DNase I (Glycerol-Free)		20KU
E127-03-M050			50KU
LYE127-U100	N <sup>t</sup> DN I (I )		100U
LYE127-U500	🗱 DNase I (Lyo)	Distributed by:	500U
		CliniScienc	es Group

## **HotStart Tth DNA Polymerase**

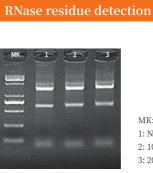
- Amplify directly from RNA in one step. Benefit from the intrinsic reverse transcriptase activity of Tth DNA Polymerase.
- The elevated temperatures of Tth DNA Polymerase activity overcomes the problems posed by RNA secondary structure.



The yield of Novoprotein Tth DNA polymerase (Cat# E108) for amplifying DNA template of different lengths is better than that of the company T.



### Product Information



MK: DNA Marker 1: Negative control 2: 10U Tth DNA polymerase 3: 20U Tth DNA polymerase

When Tth DNA polymerase (Cat# E108) was added to the RNA sample for incubation, the RNA sample did not degrade, proving that there was no RNase residue in the Tth DNA polymerase.

The Novoprotein Tth DNA polymerase (Cat# E108) was used in a one-step qRT-PCR reaction system and performed better than that of company T.

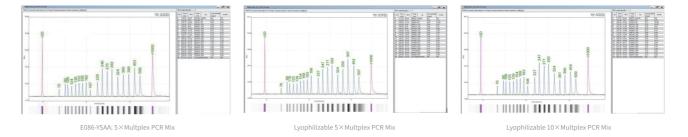
SKU	Product Name	Size
E108-01A		250U
E108-01B	IT to the set with DNIA Delever over a	250U×5
E108-02A	HotStart Tth DNA Polymerase	250U
E108-02B		250U×5
E108-03A	🍀 HotStart Tth DNA Polymerase (Glycerol-Free)	250U
E108-03B		2500U
E098-01A		250U
E098-01B		250U×5
E098-02A	Tth DNA Polymerase	250U
E098-02B		250U×5
	Distributed b	ov:

## CliniSciences Group

## 5×Multiplex PCR Mix

- No optimization required
- High specificity and sensitivity with a built-in hot start
- Highly suited for many types of multiplex PCR applications
- Easy to use and cost-effective
- Lyophilizable, LyoCake formats available

Multiplexing After freeze-drying and reconstitution, 18-plex amplification was performed ( $20\mu$ l reaction system, sample was  $\lambda$ DNA, control was E086-YSAA), and the amplified products were detected by capillary electrophoresis after amplification.



LyoCake The Multiplex PCR Mix was freeze-dried in a volume of 1 ml. After freeze-drying, the morphology and appearance were uniform in color, dense in pores, and formed a sponge-like mass structure.



5×Multplex PCR Mix



10×Multplex PCR Mix

### Product Information

SKU	Product Name	Size
E086-YSAA-01A	Extended DOD Min	100 rxns
E086-YSAA-01B	5×Multiplex PCR Mix	500 rxns

## **LAMP Mix**

## • Lyophilizable, LyoBeads formats available

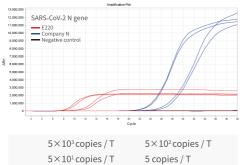


In the test for detecting ASFV genes, compared with company N products, E223 has higher sensitivity than that of company N.

## **RT-LAMP** Mix

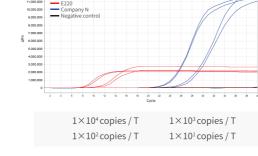
#### Lyophilizable, LyoBeads formats available •

#### Amplification performance comparison



In the test for detecting the N gene of SARS-CoV-2, the sensitivity

5 copies / T



SARS-CoV-2 ORF1ab gene

E220 Company N

In the test for detecting the ORF1ab gene of SARS-CoV-2, the sensitivity of E220 and company N was  $1 \times 10^3$  copies/T.

### Product Information

of E220 and company N was  $5 \times 10^2$  copies/T.

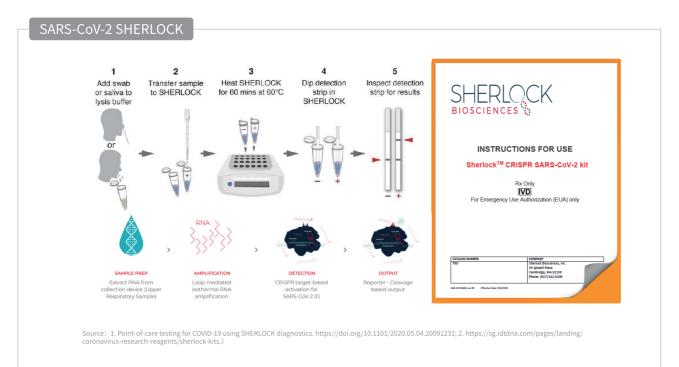
SKU	Product Name	Size		
E223-01A	2 VI AMD Master Minemith Dar	100 rxns		
E223-01B	2×LAMP Master Mix with Dye	500 rxns		
FLE223-M001	** 20/JAMDMesterMisserith Der (fers Lee)	100 rxns		
FLE223-M005	———— 🗱 2×LAMP Master Mix with Dye (for-Lyo)	500 rxns		
LBE223-01-T100	🔹 LAMP Lyophilized Beads without Dye	100 rxns		
LBE223-02-T100	🎄 LAMP Lyophilized Beads with Dye	100 rxns		
E220-01A	2 V DT I AMD Zit	100 rxns		
E220-01B	$ 2 \times \text{RT-LAMP Kit with Dye}$	500 rxns		
FLE220-M001	* 2x/DT I AMD Mostor Min with Due (for Lee)	100 rxns		
FLE220-M005	———— 🗱 2×RT-LAMP Master Mix with Dye (for-Lyo)	500 rxns		
LBE220-01-T100	🎄 RT-LAMP Lyophilized Beads without Dye	100 rxns		
LBE220-02-T100				
	Distribute	d by:		

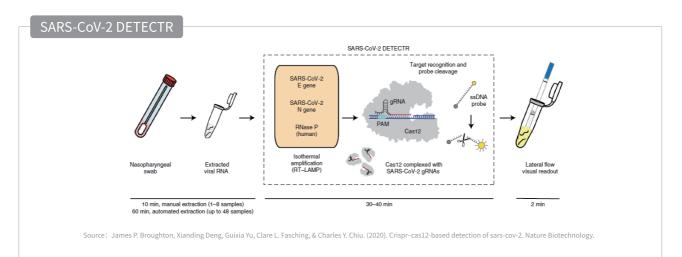
## **CliniSciences** Group

## **Enzymes for CRISPR Diagnostics**

- "Point-of-Need" use
- Fast & Simple

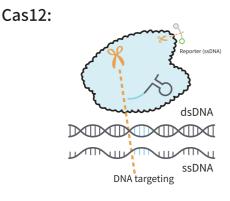
### **Application in SARS-CoV-2 Detection**

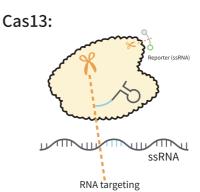




## **Enzymes for CRISPR Diagnostics**

- High purity, protein purity >95%
- High activity, cleavage efficiency 100%





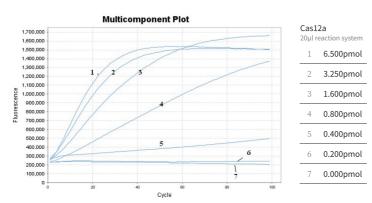
dsDNA Cleavage

				C	Contro	l			No	vopr	otein	ı			
	0	MK	1	2	3 4	45	MK	1	2	3	4	5	MK	6	
								- 2							
-	-	-	-	-				-	-	-					
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															the store

Cas12a 20µl reaction system

0	1	2	3	4	5	6
0.000pmol	0.325pmol	0.650pmol	1.300pmol	1.950pmol	2.600pmol	1.950pmol -sgRNA

ssDNA probe Cleavage



### Product Information

SKU	Product Name	Size
E373-YH01-01A	LbaCas12a Nuclease	50µg
E373-YH01-01B	LDaCaS12a Nuclease	500µg

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