



FAPON
BIOTECH

Co-Creator of Diagnostic Ecosystem



Fapon COVID-19/SARS-CoV-2 N-Antigen Detection Raw Materials

Lateral Flow Platform

Advantages



High Activity, Low
Detection Limit



Widely Validated & Recognized
by Customers (CE-IVD
Reagent Materials)



Stable Bulk Volume Supply,
Monthly Availability Up to 50g

Product Information

Recommended Pairs	Catalog No.	Source	Clone	Isotype	Application	Recommended Usage
Pair 1	FPZ0573	Mouse	8A8	IgG1	Conjugate	10 ug/mL
	FPZ0546	Mouse	5E7	IgG1	Coating	1.5-2.5 mg/mL
Pair 2	FPZ0574	Mouse	8F5	IgG1	Conjugate	10 ug/mL
	FPZ0546	Mouse	5E7	IgG1	Coating	1.5-2.5 mg/mL
Pair 3	FPZ0548	Mouse	5F9	IgG1	Coating	1.5-2.5 mg /mL
	FPZ0546	Mouse	5E7	IgG1	Conjugate	1.5-2.5 mg/mL
Pair 4	FPZ0550	Mouse	5F1	IgG1	Coating	1.5-2.5 mg /mL
	FPZ0554	Goat	--	--	Conjugate	10 ug/mL
Pair 5	FPZ0547	Mouse	3B6	IgG1	Coating	1.5-2.5 mg /mL
	FPZ0554	Goat	--	--	Conjugate	10 ug/mL

Performance

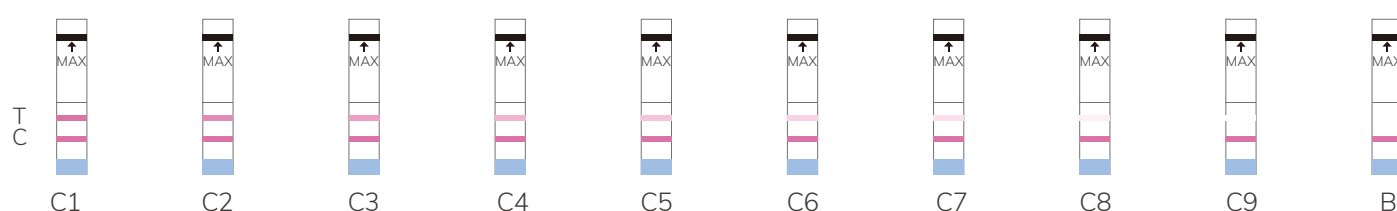
1. Activity

Reaction to Recombinant Antigens Expressed in E. coli & Eukaryotes – Detection was shown in 100 pg/mL with C8 color intensity, and 25 pg/mL with C9 color intensity.

Concentration	25 ng/mL	2 ng/mL	500 pg/mL	100 pg/mL	25 pg/mL	10 pg/mL
Level of Color Intensity	C1+	C3+	C5+	C7+	C8	C9

Reaction to Viral Lysate- Detection was shown in positive to viral lysates with different dilution gradient.

Dilution Ratio	1:100	1:1000	1:5000	1:30000
Level of Color Intensity	C1	C3	C5	C8



Note: the higher the number, the lower the activity, B refers to undetectable.

2. Specificity

One hundred negative nasal swab samples were tested with 100% specificity, no false-positive results.

3. Cross-Reactivity

Tested various respiratory tract positive samples with different concentration levels, results all showed negative, which suggested no cross-reaction and false-positive results.

Type of Pathogen	Pathogen	Category	Concentration	Result
Human Coronaviruses	HKU1	Recombinant protein	10ug/mL	No cross-reactivity
	OC43	Recombinant protein	10ug/mL	
	NL63	Recombinant protein	10ug/mL	
	229E	Recombinant protein	10ug/mL	
Pneumonia	Mycoplasma pneumonia	Inactivated pathogen	50 ug/mL	
Influenza A	H1N1	Inactivated virus	5 ug/mL	
	H3N2	Inactivated virus	5 ug/mL	
Avian influenza A	H7N9	Inactivated virus	5 ug/mL	
	H5N1	Inactivated virus	5 ug/mL	
Influenza B	Influenza B	Inactivated virus	5 ug/mL	
Parainfluenza	Parainfluenza 2	Inactivated virus	5 ug/mL	
Respiratory Syncytial Virus	Respiratory Syncytial Virus	Inactivated virus	50 ug/mL	
Adenoviridae	Adenoviridae	Inactivated virus	10 ug/mL	
Others	EB virus	Inactivated virus	30 ug/mL	
	Mumps virus	Inactivated virus	50 ug/mL	
	Varicella-zoster virus	Inactivated virus	50 ug/mL	
	Human cytomegalovirus	Inactivated virus	1:40 Dilution	
	Measles virus	Inactivated virus	1:40 Dilution	
	Rotavirus	Inactivated virus	1:40 Dilution	



CLIA/CMIA Platform

Advantages



Applicable to AP
& AE Platforms



High Sensitivity
& Specificity



High Batch-to-Batch
Consistency, Bulk
Volume Supply



Customized Reagent
Development



Bulk Reagent with
Required Specifications
& Components

Product Information

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	FPZ0546		5E7	IgG1	Conjugate
Pair 2	FPZ0574		8F5	IgG	Coating
	FPZ0546		5E7	IgG1	Conjugate
Pair 3	FPZ0549		5E4	IgG1	Coating
	FPZ0546		5E7	IgG1	Conjugate
Pair 4	FPZ0548		5F9	IgG1	Coating
	FPZ0546		5E7	IgG1	Conjugate
Pair 5	FPZ0574		8F5	IgG	Coating
	FPZ0599		8B3	IgG	Conjugate

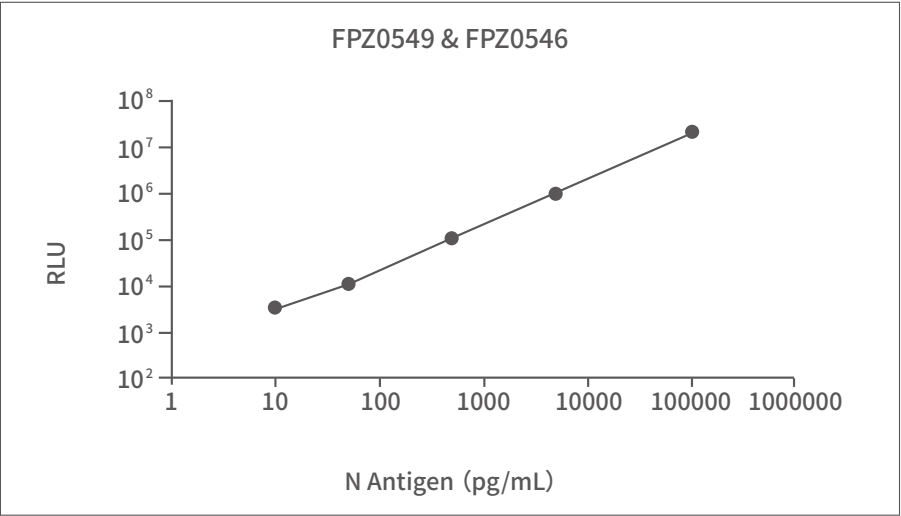
SARS-CoV-2 N Antigen Test Component

Concentrated Ab-AE Solution
Concentrated Ab-Beads Solution
Lysis Buffer
Quality Controls(0 pg/mL, 10 pg/mL, 50 pg/mL, 500 pg/mL, 5000 pg/mL, 100000 pg/mL)
AE Diluent Buffer
Beads Diluent Buffer

Performance

1. Sensitivity

Minimum detection limit: 0.51pg/mL.



2. Specificity

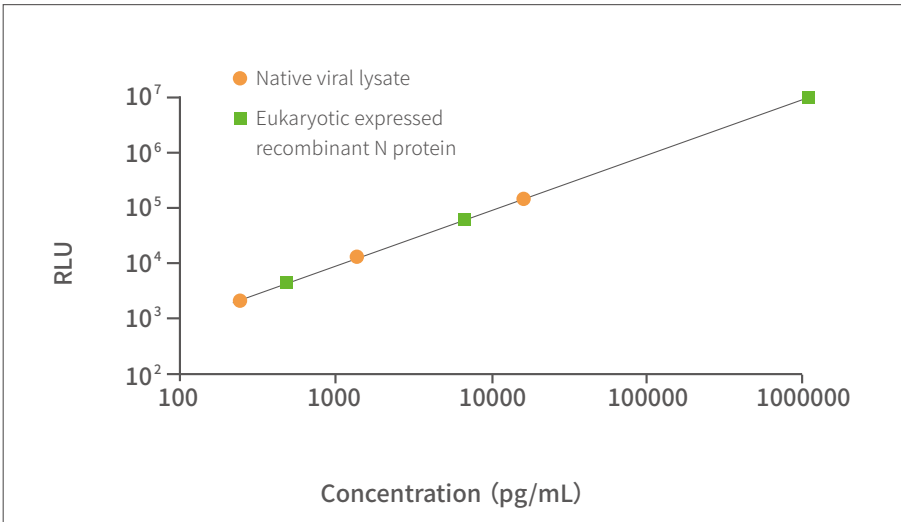
79 negative nasal swab samples with no exceed in the blank limit (LoB), 100% negative coincidence rate was detected.

3. Cross-Reactivity

Tested various respiratory tract positive samples with different concentration levels, results all showed negative, which suggested no cross-reaction and false-positive results.

4. Quality Contro

Eukaryotic expressed recombinant N protein was used as calibration material, and the reactivity showed consistency with native viral lysate





FAPON
BIOTECH

Enable Disease Identification Earlier,
More Accurate, Convenient and Affordable

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