

SARS-CoV-2 Nucleocapsid Protein IgM ELISA Kit

Catalog No. E-EL-E601
Storage 2-8°C
Applications ELISA

Reactivity
Host
Isotype

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images	Immunogen Information
	Product Information
	Background Intended use This ELISA kit applies to the in vitro qualitative determination of SARS-CoV-2 Nucleocapsid Protein IgM in serum or plasma from pneumonia patients infected with SARS-CoV-2. Test principle This ELISA kit uses Indirect-ELISA

as the method to qualitatively detect the SARS-CoV-2 Nucleocapsid protein IgM in the sample. The micro ELISA plate provided in this kit is pre-coated with purified SARS-CoV-2 Nucleocapsid protein (E-ELC-001) antigen, after adding samples to wells, the SARS-CoV-2 Nucleocapsid protein IgM in the samples will combine with the pre-coated SARS-CoV-2 Nucleocapsid protein antigen. After washing completely, add Horseradish Peroxidase (HRP) conjugated mouse anti human IgM to develop the antigen-antibody-HRP conjugated secondary antibody complex. Free components are washed away, then the substrate solution is added to each well. Only those wells that contain SARS-CoV-2 Nucleocapsid protein IgM and HRP conjugated anti-human IgM will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 ± 2 nm. Compared with the CUT OFF value to judge whether SARS-CoV-2 Nucleocapsid protein IgM exists in the tested samples or not.

[Kit components](#)

x000D

The unopened kit can be stable for 6 months at 2-8°C. After opening the kit, keep the reagents according to the conditions below.

x000D

Storage	Item	Specification
8 wells x12 strips	2-8°C 6 months	Micro ELISA Plate(Dismountable)
Positive Control	2 vials	2-8°C 6 months
Negative Control	2 vials	
1 vial, 25 mL	Sample & Control Diluent	
1 vial,		

120 μL	2-8°C(Protect from light), 6 months	Concentrated HRP Conjugated Mouse anti-human IgM
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2-8°C, 6 months	Conjugate Diluent	1 vial, 14 mL
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Concentrated Wash Buffer	1 vial, 30 mL
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1 vial, 10 mL	Stop Solution
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Substrate Reagent	1 vial, 10 mL	2-8°C(Protect from light), 6 months
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	x000D _x000D_		_x000D_ Plate		_x000D_	
	x000D Sealer _x000D_		_x000D_		5 _x000D_	
	x000D		_x000D_		pieces _x000D_	
	x000D		_x000D_		_x000D_	
x000D	_x000D_		_x000D_		_x000D_	
	x000D		_x000D_		_x000D_ Product	
	1 _x000D_		_x000D_		Description	
	copy _x000D_		_x000D_		_x000D_	
x000D	_x000D_		_x000D_		_x000D_	
	x000D		_x000D_		_x000D_	
	1 _x000D_		_x000D_		Certificate	
	copy _x000D_		_x000D_		of _x000D_	
	x000D		_x000D_		Analysis	
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x000D Note:All reagent bottle caps must be tightened to prevent evaporation and _x000D_ microbial pollution. The volume of reagents in partial shipments is a little _x000D_ more than the volume marked on the label, please use accurate measuring _x000D_ equipment instead of directly pouring into the vial(s). _x000D_

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x000D Other supplies required _x000D_

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x000D Microplate Reader with 450 nm wavelength

filter or dual-wavelength (450/630 nm)

High-precision transfer pettor, EP tubes and
disposable pipette tips

Incubator capable of maintaining 37°C

Deionized or distilled water

Absorbent paper

Loading slot for Wash Buffer

Performance

Intra-CV:CV% 2.8%

3 samples with low, mid-range and high level
were tested 20 times on one plate
respectively.

x000D **Inter-CV:CV%**10% _x000D_

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x000D 3_x000D_ samples with low, mid-range and
high level were tested on 3 different plates,_x000D_
20 replicates in each plate. _x000D_

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