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Product Info

PRODUCT NAME	SARS-CoV-2 Nucleocapsid protein (NP), Human IgG, ELISA assay
PRODUCT DESCRIPTION	The Biosensis SARS-CoV-2 NP IgG ELISA kit is a highly sensitive and specific enzyme-linked immunosorbent assay (ELISA) for the detection and qualitative measurement of IgG class antibodies against the nucleocapsid protein (NP) of SARS-CoV-2 virus (causing Covid-19) in human serum, plasma (Citrate), plasma (EDTA) and plasma (Heparin). The Biosensis SARS-CoV-2 NP IgG ELISA kit is a two-step incubation immunoassay kit. Recombinant nucleocapsid protein (NP) of SARS-CoV-2 pre-coated onto the polystyrene microwell strips can specifically recognize anti-NP antibodies in human serum or plasma specimens. After a 1 hour incubation, anti-NP antibodies are captured by immobilized NP protein while the unbound components are washed away. Afterwards, a detection solution containing HRP-conjugated anti-human IgG is added for another 1 hour incubation, wherein HRP-conjugated anti-human IgG binds to the IgG class antibodies previously bound to NP protein on the plate. After removal of nonspecific bindings, an HRP substrate solution containing 3,3',5,5'-Tetramethylbenzidine (TMB) is added, resulting in the formation of a blue color. Color reaction is stopped by 2M H_2SO_4, transforming the blue color to yellow, which is quantified by an absorbance microplate reader at 450 nm. Microplate wells with increased color intensity indicate presence of higher amount of anti-NP antibodies in the tested samples. **This product is intended for use by professional persons only. For research use only. Not for use in clinical & diagnostic procedures. In line with FDA guidelines, test reports must include the following statements:** (1) This test has not been reviewed by the FDA. (2) Negative results do not rule out SARS-CoV-2 infection, particularly in those who have been in contact with the virus. (3) Follow-up testing with a molecular diagnostic should be considered to rule out infection in these individuals. (4) Results from antibody testing should not be used as the sole basis to diagnose or exclude SARS-CoV-2 infection or to inform infection status. (5) Positive results may be due to past or present infection with non-SARS-CoV-2 coronavirus strains, such as coronavirus HKU1, NL63, OC43, or 229E.
CATALOG NUMBER(S)	BEK-1000-1P, BEK-1000-4P
UNIT SIZE(S)	1 Plate Kit, 4 Plate Kit
BATCH NUMBER	Please see item label.
SPECIFICITY	Specificity: 93.9 % (n = 180)/Sensitivity: 93.3 % (n = 60)
APPLICATION(S)	ELISA
SAMPLE TYPE	Plasma (Citrate), Plasma (EDTA), Plasma (Heparin), Serum
APPLICATION DETAILS	ELISA. For the detection of SARS-CoV-2 Nucleocapsid protein, Human IgG (NP) in Serum, Plasma (Citrate), Plasma (EDTA), Plasma (Heparin). Please download the detailed product insert for complete instructions for the successful use of this ELISA. Use only as directed. This product is intended for use by professional persons only. For research use only. Not for use in clinical & diagnostic procedures. In line with FDA guidelines, test reports must include the following statements: (1) This test has not been reviewed by the FDA. (2) Negative results do not rule out SARS-CoV-2 infection, particularly in those who have been in contact with the virus. (3) Follow-up testing with a molecular diagnostic should be considered to rule out infection in these individuals. (4) Results from antibody testing should not be used as the sole basis to diagnose or exclude SARS-CoV-2 infection or to inform infection status. (5) Positive results may be due to past or present infection with non-SARS-CoV-2 coronavirus strains, such as coronavirus HKU1, NL63, OC43, or 229E.
TARGET	SARS-CoV-2 Nucleocapsid protein, Human IgG (NP)
ALTERNATIVE NAMES	Nucleocapsid phosphoprotein [Severe acute respiratory syndrome coronavirus 2]; SARS-CoV-2;
UNIPROT NUMBER AND NAME	P0DTC9 (NCAP_SARS2)
TARGET HOST SPECIES	Human
SPECIES REACTIVITY	Human
DETECTION METHOD	Colorimetric

KIT COMPONENTS	The ELISA kit box contains 96-well pre-coated strip plate(s), blank control sample, detection reagents, wash and sample buffers, substrate buffer and detailed protocols.
STORAGE INSTRUCTIONS	2-8°C. Product ships on ice packs and is stable from ambient to refrigerated temperatures for 1 week.
EXPIRATION DATE	The unopened kit is stable for 6 months from date of receipt when stored at 2-8°C. Once opened, store reagents at 2-8°C for up to 1 month.
MAIN IMAGE	

Sensitivity	93.33% (n=60)
Specificity	93.89% (n=180)
Inter Assay Precision	
Samples	CV
1	5.46%
2	6.75%
3	6.16%
Intra Assay Precision	
Samples	CV
1	4.93%
2	5.52%
3	5.68%

MAIN IMAGE CAPTION	Performance Characteristics
ADDITIONAL IMAGES STATEMENT	Please refer to the Biosensis website for additional product images.
REFERENCES STATEMENT	Please refer to our website for product-specific references.
REGULATORY STATUS	For research use only.