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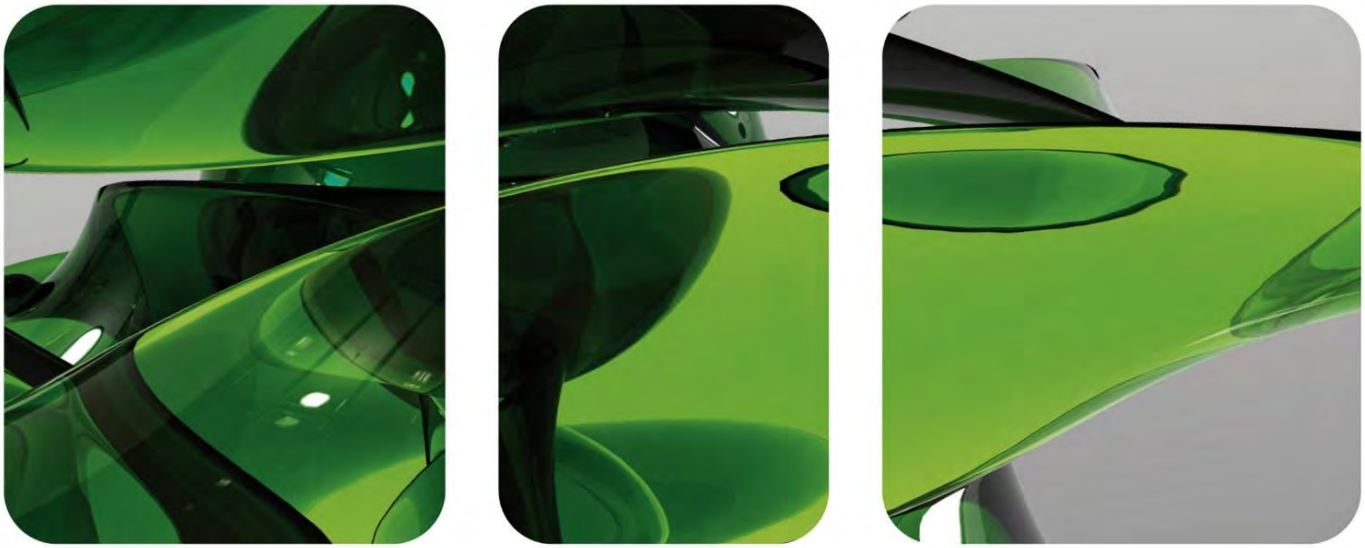

AESKULISA®

THE DIAGNOSTIC TOOL THAT WORKS

INSTRUCTION MANUAL

AESKULISA® SARS-CoV-2 NP IgM

Ref 6123US

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Updates	
Current Version	V.001 as of 2020-06-29
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1 Intended Use

The *AESKULISA*® SARS-CoV-2 NP IgM test is a qualitative and quantitative immunoassay for the demonstration of human IgM antibodies in serum or plasma directed against the nucleocapsid protein of SARS-CoV-2. The *AESKULISA*® SARS-CoV-2 NP IgM is intended for use as an aid in identifying individuals with an adaptive immune response to SARS-CoV-2, indicating acute or recent infections.

At this time, it is unknown for how long antibodies persist following infection and if the presence of antibodies confers protective immunity. Testing is limited to laboratories certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA), 42 U.S.C 263a, to perform moderate or high complexity tests.

This test is only authorized under The Emergency Use Authorization and is only for In vitro Diagnostic use.

2 Diagnostic Relevance

SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) is a human pathogenic, SARS-associated coronavirus and the causative agent of COVID-19 (corona virus disease 2019). A range of different membrane proteins such as the glycosylated spike protein (S), the envelope protein (E) and the matrix protein (M) are integrated in the virus envelope. The capsid inside of the virus with a diameter of 120 to 160 nm is composed of the nucleoprotein (N) and the (+)ssRNA. The spike protein (S) can be divided into the S1 and S2 domains. The S1 domain interacts with the ACE2 (angiotensin converting enzyme 2) receptor located on the surface of the host cell, whereas the S2 domain supports in the fusion of the virus with the cell membrane.

Transmission occurs primarily via aerosols and droplets. In general, infection via contaminated surfaces is also possible. The incubation period is usually five to six days, but may last up to 14 days. Infection of other people during the incubation period is possible despite an apparent healthy state of health.

The course of the disease is often unspecific and varies widely. In addition to clinically unapparent infections, predominantly mild to moderate illnesses with flu-like symptoms and dry cough have been described. The disease manifests in most cases with fever, sore throat, headache, body aches and mild pneumonia. In some cases, however, severe courses with acute respiratory syndromes have been described. Life-threatening pneumonia, which can sometimes be fatal, can occur particularly in high-risk patients with previous illnesses or in people above 60 years of age. In mild cases, the symptoms usually subside within two weeks. Serious disease courses can last three to six weeks.

As the clinical symptoms of COVID-19 are very variable, laboratory diagnosis is of particular importance. Both direct and indirect detection methods are available for this purpose. In the first days after infection, direct pathogen detection methods using RT-PCR (polymerase chain reaction) from sputum, tracheal secretion, bronchial lavage (BAL) or nasopharyngeal swabs is the method of choice. Indirect pathogen detection through the serological determination of IgA, IgG or IgM antibodies supplements the direct detection and supports in the diagnosis of COVID-19 in the course of the disease. In addition, the demonstration of antibodies serves for the determination of the immune status, the identification of individuals with previous contact to the pathogen as well as for epidemiological studies.

3 *AESKULISA*® Test Principle

The *AESKULISA*® (AESKU Enzyme Linked Immunosorbent Assay) is an immunoassay, which is particularly suited to the determination of antibodies. The reaction is based on the specific interaction of antibodies with their corresponding antigen. The test strips of the *AESKULISA*® microtiter plate are coated with specific antigens of the pathogen of interest. If antibodies in the patient´s sample are present, they bind to the fixed antigen. A secondary antibody, which has been conjugated with the enzyme peroxidase, detects, and binds to the immune complex. A colorless substrate is then converted into the colored product. The signal intensity of this reaction product is proportional to the antibody activity in the sample and is measured photometrically.

4 Antigen

Antibody detection with the *AESKULISA*® SARS-CoV-2 NP IgM immunoassays is based on the nucleocapsid protein of SARS-CoV-2.

5 *AESKULISA*® Test Components

Test Component	Color of Solution	Color of Cap	Pieces / Volume
Break apart microtiter test strips MP each with eight antigen coated single wells (altogether 96), 1 frame. The test-specific coating material is inactivated.	-	-	12 pieces
Calibrator A – D CAL (ready-to-use) Human serum or chimeric antibody in protein containing solution (BSA); colored; preservative ProClin. The antibody activities of the calibrators are indicated on their labels and on the quality control certificate of the *AESKULISA*® immunoassay.	yellow*	white	4 x 1.5 ml
Positive Control CON + (ready-to-use) Human serum or chimeric antibody in protein containing solution (BSA); colored; preservative ProClin.	yellow*	red	1 x 1.5 ml
Negative Control CON – (ready-to-use) Human serum or chimeric antibody in protein containing solution (BSA); colored; preservative ProClin.	yellow*	green	1 x 1.5 ml
Sample Buffer SB 5x, **5x conc.** Protein containing solution (BSA); colored; preservative < 0.1 % sodium azide. The sample buffer of *AESKULISA*® IgM immunoassays contains Rf absorbent.	green	white	1 x 20 ml
Wash Buffer WASHB 50x, **50x conc.** Solution with tween 20; colored; preservative ProClin.	green	white	1 x 20 ml

Anti-Human IgM Conjugate CONJ (ready-to-use) Anti-human IgM polyclonal antibody, conjugated to horseradish peroxidase, stabilized with protein containing solution (BSA); colored; preservative ProClin.	green	blue	1 x 15 ml
Substrate SUB (ready-to-use) Stabilized TMB/H_2O_2.	colorless	black	1 x 15 ml
Stop Solution STOP (ready-to-use) 1 M Hydrochloric Acid (HCl).	colorless	white	1 x 15 ml
Quality Control Certificate	-	-	1 piece
Instruction for Use	-	-	1 piece

*Color intensity is increasing with antibody activity.

6 Material required, but not provided

- Common laboratory equipment including glassware (cylinder 100 – 1000 ml), test tubes for dilutions, vortex mixer, precision pipettes (10, 100, 200, 500, 1000 µl) or adjustable multi-pipette (100 – 1000 µl).
- Photometer for microtiter plates with filter, wavelength 450 nm, recommended reference wavelength 600 nm – 690 nm (e.g. 620 nm)
- Microplate washing device (300 µl repeating or multichannel pipette or automated wash system)
- Adsorbent paper
- Deionized Water
  AESKULISA® immunoassays are designed to be used with purified water according to the definition of the United States Pharmacopeia (USP 26 - NF 21) and the European Pharmacopeia (Eur. Ph. 4th ed.).

7 Storage and Stability

The microtiter test strips should always be stored with desiccant in the properly sealed aluminum bag. If stored properly in their original containers and at 2 – 8 °C / 35 – 46 °F, all reagents and the microtiter plate are stable – even after opening – until their expiry date indicated on the label. Diluted solutions are stable at 2 – 8 °C / 35 – 46 °F for four weeks.

8 *AESKULISA*® Test Procedure

8.1 General Directions for Use

Optimum results can only be achieved if the instructions are strictly followed. Only use *AESKULISA*® reagents when using *AESKULISA*® immunoassays. The test components must not be exchanged for reagents of other manufacturers.

Microtiter plates, calibrators, controls and conjugates of *AESKULISA*® immunoassays are test- and lot-specific and must not be used in other lots. The evaluations of the calibrators and controls are indicated on the quality control certificate provided with the *AESKULISA*® test kit. Washing solution, substrate and stop solution can be used for all *AESKULISA*® immunoassays irrespective of lot and test.

The sample buffer of the *AESKULISA*® IgM immunoassays contains Rf absorbent and can be used for all *AESKULISA*® IgM immunoassays for the diagnosis of infectious diseases (REF 6xxx) irrespective of lot and test.

To avoid contamination, aseptic techniques should be used when removing aliquots from the reagent tubes. Conjugate and substrate solution should never be pipetted with tips that are contaminated with other reagents. Reproducibility of test results is dependent on thorough homogenization of the reagents. Therefore, reagent and sample dilutions should be agitated before use. Inappropriate dilution may result in a loss of sensitivity.

Be sure to pipette carefully and comply with the given incubation times and temperatures. Adequate washing avoids test non-specific reaction.

Avoid the exposure of reagents to strong light during storage and incubation. Never allow the test components to reach temperatures higher than 37 °C / 99 °F. Reagents must be tightly closed after use to avoid evaporation and contamination. Take care to not mix-up the caps of the vials. The test components must not reach temperatures above 37 °C.

AESKULISA® immunoassay test runs are only valid if the validation criteria are fulfilled.

8.2 Preparation of Reagents

All components and the microtiter plate must be brought to room temperature (20 – 25 °C / 68 – 77 °F) before use. Liquid reagents must be mixed thoroughly. For the dilution of buffer concentrates only clean glassware must be used.

8.2.1 Microtiter Strips (ready-to-use)

The microtiter test strips are labeled with abbreviations for the coated antigen.

8.2.2 Calibrators (ready-to-use)

The calibrators CAL A – CAL D are ready-to-use and must not be diluted any further. Calibrators must be used for each test run, independent of the number of microtiter test strips to be used.

8.2.3 Controls (ready-to-use)

The positive control CON+ and the negative control CON– are ready-to-use and must not be diluted any further. Controls must be used for each test run, independent of the number of microtiter test strips to be used.

Depending on national guidelines, laboratories can also validate their own controls and use them alternatively.

8.2.4 Sample Buffer (5x conc.)

The concentrated sample buffer is to be diluted 1:5 with distilled water prior to use (e. g. 20 ml + 80 ml). The sample buffer of *AESKULISA*® IgM immunoassays contains Rf absorbent.

8.2.5 Wash Buffer (50x conc.)

The concentrated wash buffer is to be diluted 1:50 with distilled water prior to use (e. g. 20 ml + 980 ml).

8.2.6 Anti-Human IgM Conjugate (ready-to-use)

The conjugate is ready-to-use.

8.2.7 Substrate (ready-to-use)

The TMB substrate must always be pipetted with brand new tips in order to avoid contamination. Avoid intense exposure of TMB solution to light.

8.2.8 Stop Solution (ready-to-use)

The stop solution is ready-to-use.

8.3 Preparation of Samples

8.3.1 Sample Material

The use of freshly collected serum or EDTA plasma samples is recommended. Icteric, lipemic, hemolytic or bacterially contaminated samples should not be used. Samples with particles should be cleared by centrifugation (< 1000 x g). The supernatant should be taken off and used for further analysis. Samples must not be thermally inactivated.

8.3.2 Sample Dilution

The samples are to be diluted 1:101 (e. g. 10 µl + 1000 µl) with 1x sample buffer and mixed thoroughly.

8.3.3 Pre-Absorption of Rheumatoid Factors with *AESKULISA*® IgM

Rheumatoid factors (Rf) are autoantibodies mainly of the IgM class, which preferably bind to IgG immune complexes. The demonstration of pathogen-specific IgM antibodies might lead to false-positive test results by the presence of such unspecific rheumatoid factors. Furthermore weak-binding pathogen-specific IgM antibodies might be displaced by stronger-binding IgG antibodies leading to false-negative IgM test results. Therefore, the sample buffer of *AESKULISA*® IgM immunoassays contains a specific Rf absorbent. Rf absorption is performed by dilution of the patient´s sample in 1x dilution buffer of the *AESKULISA*® IgM immunoassay and subsequent incubation for a minimum of 15 minutes at room temperature.

8.3.4 Sample Storage

Patient samples should be used within 8 hours, respectively stored tightly closed at 2 – 8 °C / 35 – 46 °F up to 48 hours. Extended storage is possible at ≤ -20 °C / -4 °F. Avoid repeated freezing and thawing.

8.4 Test Performance

8.4.1 Pipetting Scheme

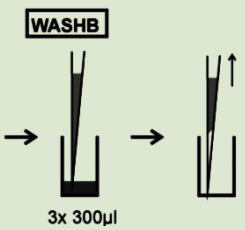
Depending on the intended quantitative or qualitative test evaluation when using *AESKULISA*® immunoassays, the following pipetting scheme is recommended:

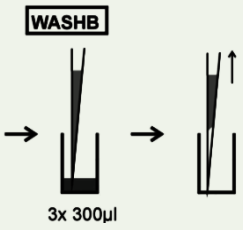
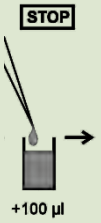
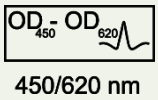
	Quantitative Evaluation						Qualitative Evaluation				
	1	2	3	4			1	2	3	4	
A	CAL A	P3				A	CON–	P5			
B	CAL B	P4				B	CAL B	P6			
C	CAL C	P5				C	CAL B	…			
D	CAL D	P6				D	CON+				
E	CON–	…				E	P1				
F	CON+					F	P2				
G	P1					G	P3				
H	P2					H	P4				

	CAL A	Calibrator A		CON–	Negative Control
	CAL B	Calibrator B		CAL B	cut off Control
	CAL C	Calibrator C		CON+	Positive Control
	CAL D	Calibrator D			
	CON–	Negative Control			
	CON+	Positive Control			

8.4.2 Test Procedure

Place the required number of cavities in the frame and prepare a protocol sheet.
For manual use processing at room temperature is recommended.

Step	Symbol	Description
1. Addition of calibrators, controls, and diluted samples		Addition of each 100 µl ready-to-use calibrators, controls and diluted samples into the appropriate wells.
2. Sample incubation		Incubation for 30 +/- 3 minutes at 20 – 32 °C / 68 – 89 °F.
3. 3 x Wash		Aspirate the solution, fill each well with 300 µl 1x wash buffer, aspirate the washing solution and repeat the washing procedure another two times; dry by tapping the microtiter plate on a paper towel.

4. Addition of conjugate		Addition of each 100 µl ready-to-use conjugate solution into the appropriate wells.
5. Conjugate incubation		Incubation for 30 +/- 3 minutes at 20 – 32 °C / 68 – 89 °F.
6. 3 x Wash		Aspirate the solution, fill each well with 300 µl 1x wash buffer, aspirate the washing solution and repeat the washing procedure another two times; dry by tapping the microtiter plate on a paper towel.
7. Addition of substrate		Addition of each 100 µl ready-to-use substrate solution into the appropriate wells.
8. Substrate incubation		Incubation for 30 +/- 3 minutes at 20 – 32 °C / 68 – 89 °F. Avoid exposure to strong light.
9. Addition of stop solution		Addition of each 100 µl ready-to-use stop solution into the appropriate wells using the same order as pipetting the substrate.
10. Incubation		Optional: Incubation for 5 minutes.
11. Agitation		Agitate the microtiter plate carefully for 5 seconds.
12. Analysis		Read optical density (OD) within 30 minutes at 450 nm against a recommended reference wavelength of 620 nm.

8.5 Automated Test Procedure

The automated processing of *AESKULISA*® immunoassays is performed analogous to manual use. The specified test procedure must be adhered to. The *AESKULISA*® immunoassays are evaluated for use with a range of different instruments; the corresponding assay files are available on request. For automated processing of *AESKULISA*® immunoassays on other instruments, evaluation of assay files by the test kit supplier in collaboration with and instrument provider is recommended. The correct automated processing of *AESKULISA*® immunoassays must finally be validated by the user.

9 *AESKULISA*® Test Evaluation

9.1 Standardization

Calibration of the *AESKULISA*® SARS-CoV-2 NP IgM immunoassays was performed using internal reference sera. Quantitative test results are expressed in U/ml.

9.2 Quantitative Evaluation

Generally, the quantitative data evaluation is recommended when using *AESKULISA*® immunoassays. For generation of a standard curve, the optical measurement signals (optical density, OD) of the calibrators are plotted against their antibody activity (in IU/ml or U/ml). The antibody activities of the calibrators are indicated on the lot-specific quality control certificate provided with the *AESKULISA*® test kit. For optimal results, log/lin coordinates and a 4-parameter logistic (4 PL) fit is recommended. Using the generated curve, antibody activities of the samples can be directly evaluated from the optical measurement signals.

9.3 Borderline Range

The borderline range of the *AESKULISA*® immunoassay is specified on the quality control certificates provided with the test kit and indicate the range of borderline test results. Values below this range indicate a negative test result; values above the borderline range are interpreted positive. As a consequence of different seroprevalences and vaccination programs in individual countries, we recommend to verify the borderline range by laboratories own analysis of normal controls and adapt if necessary.

9.4 Measurement Range

The measurement range of the *AESKULISA*® immunoassay is specified on the quality control certificate provided with the test kit. The linearity of dilution as well as a high precision and reproducibility of test results has been demonstrated within this range in comprehensive evaluation studies. Samples with test results above the upper limit of quantification should be reported as >max. Samples with test results below the lower limit of quantification should be reported as <min. In case a patient sample shows a test result above the upper limit of quantification, the sample may be tested at a higher dilution. The resulting antibody activity must then be multiplied by the additional dilution factor.

9.5 Qualitative Evaluation

The qualitative data evaluation when using *AESKULISA*® immunoassays is performed by comparison of the optical measurement signal (optical density, OD) of the patient´s sample with the mean optical measurement signal of the calibrator B (cut off calibrator CAL B) tested in duplicate. If the patient´s sample reaches OD values within the borderline range of +/- 20 % around the mean OD of the cut off calibrator CAL B, the sample is considered as equivocal. Samples with higher OD values are evaluated as positive, samples with lower OD values are evaluated as negative.

9.6 Quantitative Evaluation

Generally, the quantitative data evaluation is recommended when using *AESKULISA*® immunoassays. For generation of a standard curve, the optical measurement signals (optical density, OD) of the calibrators are plotted against their antibody activity (in IU/ml or U/ml). The antibody activities of the calibrators are indicated on the lot specific quality control certificate provided with the *AESKULISA*® test kit. For optimal results, log/lin coordinates and a 4-parameter logistic (4 PL) fit is recommended. Using the generated curve, antibody activities of the samples can be directly evaluated from the optical measurement signals.

9.7 Criteria of Validity

The following criteria of validity have to be fulfilled for a valid test run:

- OD CAL A < 0.3
- OD CAL A < OD CAL B < OD CAL C < OD CAL D
- OD CAL D > 1.3
- The negative control must be evaluated as negative.
- The positive control must not be evaluated as negative.
- By use of quantitative *AESKULISA*® immunoassays, the positive control must present an antibody activity within the validity range indicated on the quality control certificate of the *AESKULISA*®.
- By use of qualitative *AESKULISA*® immunoassays, the variation of the OD values of the cut off calibrator B, tested in duplicate, must not be higher than 20 %.

If these criteria are not met, the test is not valid and must be repeated.

In case of an invalid test run, the expiration dates of the (ready-to-use) reagents, the storage conditions, the incubation times and temperatures, the pipettes, the washer incl. washing cycles, the photometer as well as other devices used should be verified. If no explicable cause for an invalid test run or other aberrant results can be identified, please contact the supplier or manufacturer of the test kit.

9.8 Interpretation of Test Results

A positive test result in *AESKULISA*® immunoassays confirms the presence of specific antibodies. A negative result indicates that no clinically relevant antibody activity against the pathogen are present in the patient´s sample but does not exclude the possibility of an acute infection. In case of a borderline result, a reliable evaluation is not possible. A definitive diagnosis can only be achieved by testing paired serum samples, taken at one to two-week intervals, in parallel.

During the course of a primary infection, the humoral response is characterized by the manufacture of IgM, IgA and IgG antibodies. Whereas the IgM and IgA antibody activity decreases some weeks after infection, the IgG antibody activity persists considerably longer.

Cross-reactions of antibodies directed against other Coronaviruses, in particular SARS-CoV-1, cannot be excluded and might complicate the interpretation of serological test results.

The interpretation of test results has to be considered in combination with the patient's clinical picture. A diagnosis should not be based on the results of the performed test only, but should be made after all clinical and laboratory findings have been evaluated. For confirmation, further investigations should be carried out.

10 *AESKULISA*® Performance Characteristics

10.1 Analytical Sensitivity and Specificity

The analytical sensitivity of the *AESKULISA*® immunoassays was assessed by multiple analysis of negative samples.

	Analytical Sensitivity
AESKULISA® SARS-CoV-2 NP IgM	1.16 U/ml

The analytical specificity of the *AESKULISA*® immunoassays was assessed by addition of potentially interfering substances to samples and determination of their influence on the measurement. A significant influence of hemoglobin (up to 800 mg/dl), bilirubin (up to 20 mg/dl), bilirubin conjugate (up to 20 mg/dl) and triglycerides (up to 3000 mg/dl) on test results was not observed.

10.2 Sensitivity and Specificity

The sensitivity of the *AESKULISA*® SARS-CoV-2 NP IgM immunoassay was assessed by the analysis of 28 samples from patients with suspected SARS-CoV-2 infection and positive IgM antibody detection. The specificity of the *AESKULISA*® SARS-CoV-2 NP IgM was determined by the analysis of 182 samples from healthy blood donors and negative IgM antibody test. The results of the *AESKULISA*® SARS-CoV-2 NP IgM were compared using the SARS-CoV-2 IgM immunoassay from a European manufacturer as a reference.

	Sensitivity	Specificity
AESKULISA® SARS-CoV-2 NP IgM	95.7 %	> 99 %

Sera classified as borderline were not included in the calculation of sensitivity and specificity.

10.3 Reference Range of Healthy Individuals

Testing of serum samples from unselected blood donors with *AESKULISA*® SARS-CoV-2 NP IgM immunoassays resulted in the following distribution:

AESKULISA®	Origin	Nr. of Samples	Negative	Borderline	Positive
SARS-CoV-2 NP IgM	German	100	98 (98.0 %)	2 (2.0 %)	0 (0.0 %)
SARS-CoV-2 NP IgM	US	97	97 (100.0 %)	0 (0.0 %)	0 (0.0 %)
SARS-CoV-2 NP IgM	combined	197	195 (99.0 %)	2 (1.0 %)	0 (0.0 %)

10.4 Precision

Precision and reproducibility of test results obtained with *AESKULISA*® SARS-CoV-2 NP IgM were assessed by the determination of the intra- and inter-assay precision as well as the lot-to-lot variance by the analysis of multiple samples of different antibody activities.

Sample	Extinction (OD)	IgM Activity	Intra-assay CV (U/ml)	Inter-assay CV (U/ml)	Lot-to-Lot CV (U/ml)
Serum 1	0.275	4.5 U/ml	3.7 %	5.2 %	9.1 %
Serum 2	0.423	7.7 U/ml	2.9 %	4.5 %	9.1 %
Serum 3	0.730	16.0 U/ml	3.8 %	6.1 %	5.0 %
Serum 4	1.433	45.3 U/ml	4.4 %	5.7 %	7.5 %
Serum 5	1.803	73.0 U/ml	4.1 %	15.5 %	6.6 %

10.5 Cross reactivity

To assess the influence of potentially cross reacting antibodies on the test results, multiple serum samples with positive antibody activity directed against a range of different pathogens were analyzed with *AESKULISA*® SARS-CoV-2 NP IgM.

Serum Samples with Positive Antibody Activity against …	Nr of Serum Samples	Negative	Borderline	Positive
Adenovirus	46	45	1	0
Influenza A Virus	48	47	1	0
Influenza B Virus	48	47	1	0
Parainfluenza Virus 1	48	47	1	0
Parainfluenza Virus 2	48	47	1	0
Parainfluenza Virus 3	48	47	1	0
Respiratory Syncytial Virus	48	47	1	0

11 Safety Measures

11.1 Recommendations and Precautions

Testing is limited to laboratories certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA), 42 U.S.C 263a, to perform moderate or high complexity tests.

This test is only authorized under The Emergency Use Authorization and is only for In Vitro Diagnostic Use (IVD).

To be used by qualified personnel only, who are advised in methods of ELISA techniques. All kit reagents and human specimens should be handled carefully, using established good laboratory practice. If the product is damaged or product information - including the labelling - is wrong or incorrect, please contact the manufacturer or supplier of the test kit.

Do not pipette by mouth. Do not smoke, eat or drink in areas in which specimens or kit reagents are handled. Avoid direct contact by wearing disposable gloves, laboratory coat and safety glasses while handling kit reagents or specimens. Wash hands thoroughly afterwards.

This product contains dilutions of human serum samples. Although all serum samples have been tested and found negative for anti-HIV 1 and 2-ab, HBs-Ag (Hepatitis B-Virus-surface Antigen) and anti-HCV-ab, they should be considered potentially infectious. This product contains dilutions of animal origin. Please observe the relevant statutory requirements.

This kit contains potentially hazardous components, which might be irritant to eyes and skin.

Individual test components contain sodium azide (NaN_3) as a preservative. Sodium azide may be toxic if ingested or adsorbed by skin or eyes. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. On disposal, flush with a large volume of water to prevent azide build-up.

Calibrators and controls as well as patient samples should be considered potentially infectious and handled according to national laws. Patient samples and other potentially infectious material should be decontaminated after the test run.

Reagents should be stored safely and be inaccessible to children.

11.2 Disposal

For decontamination and disposal please follow the recommendations of the CDC as well as the relevant local and national statutory requirements.

12 References

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Simboli sulle etichette / Symbols on labels / Symboles sur étiquettes / Símbolos sobre las etiquetas / Symbole auf den Etiketten / Σύμβολα στις ετικέτες / Símbolos nos rótulos

IVD	Diagnosi in vitro, For in vitro diagnostic use, Pour diagnostic in vitro, Para uso diagnóstico in vitro, In Vitro Diagnostikum, In Vitro Διαγνωστικό μέσο, Para uso Diagnóstico in vitro
REF	Numero d'ordine, Catalog number, Référence Catalogue, Numéro de catálogo, Bestellnummer, Αριθμός παραγγελίας, Número de catálogo
LOT	Descrizione lotto, Lot, Lot, Lote, Chargen Bezeichnung, Χαρακτηρισμός παρτίδας, Lote
CE	Conformità europea, EC Declaration of Conformity, Déclaration CE de Conformité, Declaración CE de Conformidad, Europäische Konformität, Ευρωπαϊκή συμφωνία, Déclaracão CE de Conformidade
	96 determinazioni, 96 tests, 96 tests, 96 pruebas, 96 Bestimmungen, 96 προσδιορισμοί, 96 Testes
	Rispettare le istruzioni per l'uso, See instructions for use, Voir les instructions d'utilisation, Ver las instrucciones de uso, Gebrauchsanweisung beachten, Λάβετε υπόψη τις οδηγίες χρήσης, Ver as instrucões de uso
	Da utilizzarsi entro, Use by, Utilise avant le, Utilizar antes de, Verwendbar bis, Χρήση μέχρι, Utilizar antes de
	Conservare a 2-8°C, Store at 2-8°C (35-46°F), Conserver à 2-8°C, Conservar a 2-8°C, Lagerung bei 2-8°C, Φυλάσσεται στους 2-8°C, Conservar entre 2-8°C
	Prodotto da, Manufactured by, Fabriqué par, Fabricado por, Hergestellt von, Κατασκευάζεται από, Fabricado por
CO-CAL	Calibratore cut-off, Cut off Calibrator, Etalon Seuil, Calibrador de cut-off, Grenzwert Kalibrator, Οριακός ορός Αντιδραστήριο αθμονόμησης, Calibrador de cut-off
CON +	Controllo positivo, Positive Control, Contrôle Positif, Control Positivo, Positiv Kontroll, Θετικός ορός ελέγχου, Controlo positivo
CON –	Controllo negativo, Negative Control, Contrôle Négatif, Control Negativo, Negativ Kontrolle, Αρνητικός ορός ελέγχου, Controlo negativo
CAL	Calibratore, Calibrator, Etalon, Calibrador, Kalibrator, Αντιδραστήριο βαθμονόμησης, Calibrador
RC	Recupero, Recovery, Corrélation, Recuperado, Wiederfindung, Ανάκτηση, Recuperacão

MP	Coniugato, Conjugate, Conjugé, Conjugado, Konjugat, Σύζευγμα, Conjugado,
CONJ	Micropiastra rivestita, Coated microtiter plate, Microplaque sensibilisée, Microplaca sensibilizada, Beschichtete Mikrotiterplatte, Επικαλυμμένη μικροπλάκα, Microplaca revestida
WASHB	Tampone di lavaggio, Wash buffer, Tampon de Lavage, Solución de lavado, Waschpuffer, Ρυθμιστικό διάλυμα πλύσης, Solucão de lavagem
SUB	Tampone substrato, Substrate buffer, Substrat, Tampón sustrato, Substratpuffer, Ρυθμιστικό διάλυμα υποστρώματος, Substrato
STOP	Reagente bloccante, Stop solution, Solution d'Arrêt, Solución de parada, Stopreagenz, Αντιδραστήριο διακοπής αντίδρασης, Solucão de paragem
SB	Tampone campione, Sample buffer, Tampon Echantillons, Tampón Muestras, Probenpuffer, Ρυθμιστικό διάλυμα δειγμάτων, Diluente de amostra