

March 6, 2024

LETTER OF AUTHORIZATION

By this means, the manufacturer Bioeksen AR GE Teknolojileri A.Ş, located in Huzur Mah. Metin Oktay Cad. Nurol Life Sitesi No:3/31 Sarıyer - İstanbul, authorizes the company SRL SANMEDICO to have a registered office at A. Corobceanu Street 7A, apt. 9, Chişinău MD-2012, Moldova.

As our representative and distributor carry out the necessary procedures in Moldova for the registration, importation, distribution, sales, and promotion of the products manufactured and/or assembled by Bioeksen AR GE Teknolojileri A.Ş in the Country of Moldova.

This authorization is valid for 1 year from the date of signature.

Bioeksen AR GE Teknolojileri A. Ş

Canan Ketre

Chair of the Board



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Merkez Ofis / Üretim Ofisi : Huzur Mah. Metin Oktay Cad.
Nurol Life Sitesi D Blok No:3/31 Sarıyer-İstanbul-TÜRKİYE



CERTIFICATE



BİOEKSEN AR-GE TEKNOLOJİLERİ ANONİM ŞİRKETİ

HQ: Huzur Mah. Metin Oktay Cad. Nurol Life Sitesi D Blok No:3/31, 34396 Sarıyer - İstanbul - Türkiye
Production: Huzur Mah. Metin Oktay Cad. Nurol Life Sitesi D Blok No:3/10, 34396 Sarıyer - İstanbul - Türkiye
R&D / Project: Maslak Mh. Büyükdere Cad. Noramin İş Merkezi No: 237/1, 34485
Maslak Sarıyer - İstanbul - Türkiye

**Design, Production, Storage, Distribution, Installation and Technical Services of
Molecular Based Analysis Kits and Devices**

with a scope of

ISO 9001:2015

Has established a quality management system in accordance
with international standard.

*"Following elements of the standard are excluded "
"None"*

Certificate No : M 11839
Initial Certification Date : 25 October 2019
Certification Date : 12 October 2022
Expiration Date : 11 October 2025

Kiwa Belgelendirme Hizmetleri A.Ş.
ITOSB 9. Cadde No. 15 Tepeören Tuzla
İstanbul / Turkey

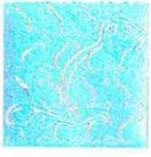
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Certificate is valid till expiration date,
subject to successful completion of
periodical surveillance audits.
Please contact above numbers for
detailed information.

General Manager



TÜRKAK BDS NO
YS-BF5D-D46B



CERTIFICATE



BİOEKSEN AR-GE TEKNOLOJİLERİ ANONİM ŞİRKETİ

HQ: Huzur Mah. Metin Oktay Cad. Nurol Life Sitesi D Blok No:3/31, 34396 Sarıyer - İstanbul - Türkiye
Production: Huzur Mah. Metin Oktay Cad. Nurol Life Sitesi D Blok No:3/10, 34396 Sarıyer - İstanbul - Türkiye
R&D / Project: Maslak Mh. Büyükdere Cad. Noramin İş Merkezi No: 237/1, 34485
Maslak Sarıyer - İstanbul - Türkiye

**Design, Production, Storage, Distribution, Installation and Technical Services of
Molecular Based Analysis Kits and Devices**

with a scope of

EN ISO 13485:2016

Has established a management system in accordance
with international Medical Devices Quality Management System Standard

*"Following elements of the standard are excluded"
"7.5.5" "7.5.7" "7.5.9.2"*

Certificate No	: M 11840
Initial Certification Date	: 25 October 2019
Certification Date	: 12 October 2022
Expiration Date	: 11 October 2025

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periodical surveillance audits.
Please contact above numbers for
detailed information.

General Manager



TÜRKAK BDS NO
YS-DCB8-88D2

2017/746 In Vitro Diagnostic Medical Device Regulation (EU) Declaration of Conformity

Manufacturer	Bioeksan AR GE Teknolojileri A.Ş.
Manufacturer's Address	Central Office: Huzur Mah. Metin Oktay Cad. NuroL Life Sitesi D Blok No:3/31, 34396 Sarıyer/İstanbul TÜRKİYE Manufacturing Site: Huzur Mahallesi Metin Oktay Caddesi NuroL Life No:3/10, Sarıyer/İstanbul TÜRKİYE Web: www.bioeksan.com.tr, E-posta: info@bioeksan.com.tr
Manufacturer Individual Identification Number	TR-MF-000032826
Authorised Representative	-
Authorised Representative's Address	-
Authorized Representative Identification Number	-
Product(s) Name	Bio-Speedy® vNAT ® Viral Nucleic Acid Buffer
Product Catalog Number(s)	BS-NA-510-100 BS-NA-510-250 BS-NA-510-500 BS-NA-510-1000
Basic UDI-DI	868187745NAEXB013W
Intended Purpose	The vNAT ® Viral Nucleic Acid Buffer is a 10x concentrated viral nucleic acid extractive and preservative liquid for nasopharyngeal swab, oropharyngeal swab, oral/saliva swab samples. The nucleic acid extractive and preservative liquid inactivates all viral, bacterial, or eukaryotic pathogens in the sample within 1 minutes after contact with the clinical specimen. The vNAT ® Viral Nucleic Acid Buffer allows from sample to qPCR in a minute.
Technical Documentation Number	TD.016
Risk Classification of Device and Classification Rule	Class A Device according to Annex VIII Article 2.5 (Rule 5) point a of 2017/746 In Vitro Diagnostic Medical Device Regulation (EU)
GMDN Code	52521- Nucleic acid extraction/isolation kit IVD
EMDN Code	-
Conformity Assessment Route	EU Declaration of Conformity, under the responsibility of the manufacturer, according to ANNEX IV (Annex II and Annex III) of 2017/746 In Vitro Diagnostic Medical Device Regulation (EU)

Bioeksan AR GE Teknolojileri A.Ş. declares that the above mentioned device meets the provisions of 2017/746 In Vitro Diagnostic Medical Device Regulation (EU). All supporting documentation is reserved under the premises of the manufacturer and the EU declaration of conformity is issued under sole responsibility of manufacturer.

Authorized Person: Canan Zöhre Ketre Kolukırık

Date of Issue: 25.01.2023

Position: Chairman of the Board

Place of Issue: İstanbul

Seal/Signature: BIOEKSAN AR GE TEKNOLOJİLERİ A.Ş.
Huzur Mah. Metin Oktay Cad. NuroL Life D Blok
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ATTACHMENT

List of Applied Standards

	Standard Title	Content	Scope	Excluded Items
QMS	ISO 9001:2015	Quality management systems — Requirements	Covered	-
Harmonised Standard QMS	EN ISO 13485:2016 EN ISO 13485:2016/AC:2018 EN ISO 13485:2016/A11:2021	Medical devices — Quality management systems — Requirements for regulatory purposes	Partially covered.	<ul style="list-style-type: none"> — 7.5.5 Special Requirements for Sterile Medical Devices — 7.5.7 Special Requirements for Process Validation for Sterilization and Sterile Barrier Systems — 7.5.9.2 Special requirements for implantable medical devices
Harmonised Standard Risk Management	EN ISO 14971:2019 EN ISO 14971:2019/A11:2021	Medical devices — Application of risk management to medical devices	Covered	-
Risk Management	ISO/TR 24971:2020	Medical devices — Guidance on the application of ISO 14971	Covered	-
Performance Evaluation Metrological Traceability	EN ISO 17511:2020	In vitro diagnostic medical devices — Requirements for establishing metrological traceability of values assigned to calibrators, trueness control materials and human samples	Covered	-
Performance Evaluation	EN 13612:2002	Performance evaluation of in vitro diagnostic medical devices	Covered	-
Performance Evaluation Stability	EN ISO 23640:2015	In vitro diagnostic medical devices — Evaluation of stability of in vitro diagnostic reagents	Covered	-
Harmonised Standard Labelling	EN ISO 18113-1:2022	In vitro diagnostic medical devices — Information supplied by the manufacturer (labelling) — Part 1: Terms, definitions and general requirements	Covered	-
Harmonised Standard Labelling	EN ISO 18113-2:2012	In vitro diagnostic medical devices — Information supplied by the manufacturer (labelling) — Part 2: In vitro diagnostic reagents for professional use	Covered	-
Harmonised Standard Labelling	EN ISO 15223-1:2021	Medical devices — Symbols to be used with information to be supplied by the manufacturer — Part 1: General requirements	Covered	-
Post-Market Surveillance	ISO/TR 20416:2020	Medical devices — Post-market surveillance for manufacturers	Covered	-
Usability	IEC 62366-1:2015	Medical devices — Part 1: Application of usability engineering to medical devices	Covered	-
Performance Evaluation	ISO 20395:2019	Biotechnology — Requirements for evaluating the performance of quantification methods for nucleic acid target sequences — qPCR and dPCR	Partially covered.	Does not cover dPCR items.

Performance Evaluation	ISO 16142-2:2017	Medical devices — Recognized essential principles of safety and performance of medical devices — Part 2: General essential principles and additional specific essential principles for all IVD medical devices and guidance on the selection of standards	Partially covered.	Table B.1 — General principles for all medical devices 18.3 (I)
Clinical Studies	BS ISO 20916:2019	In vitro diagnostic medical devices — Clinical performance studies using specimens from human subjects — Good study practice	Covered	-
Stability	CLSI EP25-A	Evaluation of Stability of In Vitro Diagnostic Reagents; Approved Guideline, CLSI, Wayne, PA, 2009	Covered	-
Stability	ISO 20417:2021	Medical devices — Information to be supplied by the manufacturer	Partially covered.	5.12 Sterile 6.5.3 (c) 6.6.2 (d) (7) 6.6.2 (g) 6.6.2 (h)
Performance Evaluation	MDCG 2021-21	Guidance on performance evaluation of SARS-CoV-2 in vitro diagnostic medical devices	Covered	-
Performance Evaluation	CLSI MM3 A3: 3ED 2015	Molecular Diagnostic Methods for Infectious Diseases	Covered	-
Performance Evaluation	CLSI EP17 A2: 2ED 2012	Evaluation of Detection Capability for Clinical Laboratory Measurement Procedures	Covered	-
Performance Evaluation	CLSI EP07 3ED: 2018	Interference Testing in Clinical Chemistry, 3rd Edition	Not covered	-
Performance Evaluation	CLSI EP5 A3: 3ED 2014	Evaluation of Precision of Quantitative Measurement Procedures; Approved Guideline—Third Edition	Covered	-

EC DECLARATION OF CONFORMITY

**Directive 98/79/EC of the European Parliament and of the Council of 27 October 1998 on
In Vitro Medical Diagnostic Devices**

Bioeksan AR GE Teknolojileri A.Ş. hereby declares under its own responsibility that the products covered by this declaration conform with "Essential Requirements" listed in Annex I of EC Directive 98/79/EC (IVD Directive). Supporting documentation (technical documentation) is retained under the premises of the manufacturer.

Manufacturer	: Bioeksan AR GE Teknolojileri Anonim Şirketi
Central Office	: Huzur Mah. Metin Oktay Cad. Nurol Life Sitesi D Blok No:3/31, 34396 Sarıyer/İstanbul TÜRKİYE
Manufacturing Site	: Huzur Mahallesi Metin Oktay Caddesi Nurol Life No:3/10, Sarıyer/İstanbul TÜRKİYE
	Web: www.bioeksan.com.tr, E-mail: info@bioeksan.com.tr
Product(s) Name	: Bio-Speedy® COVID-19/Flu RT-qPCR
Description	: Bio-Speedy® COVID-19/Flu RT-qPCR
	Ref No: BS-SY-SI-100
	Ref No: BS-SY-SI-250
	Ref No: BS-SY-SI-500
	Ref No: BS-SY-SI-1000
Classification	: Other (Neither listed in the Annex II, Nor Self-testing device), GMDN code: 47922- Multiple respiratory virus nucleic acid IVD, kit, nucleic acid technique (NAT)
	Article 9, paragraph 1 of EC Council Directive 98/79/EC on In Vitro Medical Diagnostic Devices
Conformity Assessment Route	: According to Annex III of the IVD Directive 98/79/EC
	EC declaration of conformity under manufacturer responsibility
Applied Standards	: All standards stated in the annex on the other page are strictly implemented in our company.

We hereby declare that the above-mentioned product/s meet the provisions of the EC Council Directive 98/79/EC for in vitro medical diagnostic devices. All supporting documentation is retained under the premises of the manufacturer and the manufacturer is exclusively responsible for the declaration of conformity.

Signature: 
BİOEKSEN AR GE TEKNOLOJİLERİ A.Ş.
Huzur Mah. Metin Oktay Cad. Nurol Life D Blok
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Maslak V.D. 176 06312851 T/c. SAKA NO: 904277-0
Mersis No: 34770094285300001
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Place of Issue: İstanbul

Valid from: 25.05.2022

Authorized Person: Canan Zöhre Ketre Kolukirik
Chairman of the Board

EC DECLARATION OF CONFORMITY

Attachment List of Applied Standards

No.	Title of standards	Contents
1	EN ISO 13485:2016	Medical devices - Quality management systems - Requirements for regulatory purposes
2	EN ISO 14971:2019	Medical devices – Application of risk management to medical devices
3	EN ISO 17511:2020	In vitro diagnostic medical devices - Measurement of quantities in biological samples - Metrological traceability of values assigned to calibrators and control materials
4	EN 13612:2002	Performance evaluation of in vitro diagnostic medical devices
5	EN ISO 23640:2015	In vitro diagnostic medical devices – Evaluation of stability of in vitro diagnostic reagents
6	EN ISO 18113-1:2011	In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 1: Terms, definitions, and general requirements
7	EN ISO 18113-2:2011	In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 2: In vitro diagnostic reagents for professional use
8	EN ISO 15223-1:2021	Medical devices - Symbols to be used with medical device labels, labelling and information to be supplied - Part 1: General requirements
9	IEC 62366-1:2015	Medical devices — Part 1: Application of usability engineering to medical devices
10	CLSI MM3 A3: 3ED 2015	Molecular Diagnostic Methods for Infectious Diseases
11	CLSI EP17 A2: 2ED 2012	Evaluation of Detection Capability for Clinical Laboratory Measurement Procedures
12	CLSI EP07 3ED: 2018	Interference Testing in Clinical Chemistry, 3rd Edition
13	CLSI EP5 A3: 3ED 2014	Evaluation of Precision of Quantitative Measurement Procedures; Approved Guideline—Third Edition

For in vitro diagnostic use only.
For professional use only.

Cat No: BS-SY-SI-100/BS-SY-SI-250/BS-SY-SI-500/BS-SY-SI-1000

COVID-19/Flu RT-qPCR

Package Insert



Table 1. Kit Content

Component	Intended Use	100 Reactions	250 Reactions	500 Reactions	1000 Reactions
2X Prime Script Mix	Optimized ready-to-use mix for RT-qPCR assay	1 x 1000 µL	2 x 1250 µL	4 x 1250 µL	8 x 1250 µL
CVD19/FLU Oligo Mix	FAM: SARS-CoV-2 HEX: Human (IC-Internal Control) ROX: Influenza A CYS: Influenza B	1 x 500 µL	1 x 1250 µL	2 x 1250 µL	4 x 1250 µL
NTC	Negative Control	1 x 1000 µL	1 x 1000 µL	1 x 1000 µL	1 x 1000 µL
PC-CVD19/FLU	Positive Control (PC)	1 x 250 µL	1 x 250 µL	1 x 500 µL	2 x 500 µL

Table 2. Transport Condition, Storage Condition, and Shelf Life of the Components

Component	Transport Condition	Storage Condition*	Shelf Life
2X Prime Script Mix	(-22) – (+8) °C	(-22) – (-18) °C	12 Months
CVD19/FLU Oligo Mix		(-22) – (-18) °C	
NTC		(+2) – (+8) °C	
PC-CVD19/FLU		(+2) – (+8) °C	

*Each reagent stored at storage temperature can be used until the expiration date indicated on the tube following the first opening. The kit's expiration date is determined by the expiration date of the reagents.

Table 3. Components Required but Not Included with The Test

Components Required but Not Included with The Test	
1.	Magnetic Induction Cycler (Mic) (Bio Molecular System - BMS) or/and CFX96 Touch™/CFX96™ Dx/CFX Opus 96™/CFX Opus 96™ Dx (Bio-Rad) Real-Time PCR systems
2.	Micropipettes and compatible filtered pipette tips (nuclease-free) suitable for transferring 1-10, 10-100, and 100-1000 µL of liquid
3.	A centrifuge or Mini-spin
4.	Vortex
5.	Reaction tubes and caps/films specific to qPCR instruments and compatible with reaction volume

Table 4. Intended Use, Test Principle, and Analytical Specifications

Function	Aid to diagnosis	Sample Type(s)	Table 5
Analyte(s)	Table 1	Nucleic Acid Preparation Method(s)	Table 5
Qualitative/Quantitative	Qualitative	Validated PCR Instrument(s)	Table 3
Test Principle	Reverse Transcription and Real-Time PCR (RT-qPCR)	Inclusivity and Exclusivity	Validated on the reference strains and the field isolates
Automated/Manual	Manual		
Intended Users	Professional use	Limit of Detection (LoD)	Table 5
Target Population	Individuals with the suspected infection	Sensitivity and Specificity	%100.00 ve %100.00

Table 5. Collection, Storage, and Transfer of Clinical Specimens / Nucleic Acid Preparation Methods and the Respected LoD Values

Sample Type**	Sample Transfer	Sample Storage	Nucleic Acid Preparation Method	LoD (cp/mL)
Combined nasopharyngeal, and oropharyngeal swabs	vNAT® Transfer Tube (Cat. No: BS-NA-513m)	3 months at (+2) – (+8) °C 1 year at -20 °C	Nucleic acid preparation is not required. The sample can be used directly in qPCR.	250
	Viral Transport Medium (VTM) (CDC SOP#: DSR-052-05)	3 days at (+2) – (+8) °C 1 year at -70 °C	RINA™ M14 Nucleic Acid Extraction Device (Robot Catalog No: RINA-M14-01, Kit Cat. No: RN-NA-101) Zybio EXM3000 Nucleic Acid Isolation System (Robot Model No: EXM3000, Kit Cat. No: ZFNAE01)	125
Bronchoalveolar lavage (BAL) and nasopharyngeal aspirate	Preservative-free sterile containers/tubes	(+2) – (+8) °C'de 3 gün -70 °C'de 1 yıl		500

**Clinical specimens should be collected by a healthcare provider in accordance with national/international clinical specimen collection regulations.

1. qPCR Application Protocol


Before starting the assay, please consider the following:

1. The kit was validated only for the template nucleic acid volume which is 25% of the total qPCR volume.
2. The kit cannot be used with real-time PCR instruments without periodic maintenance records.
3. The kit for Bio-Rad Real-Time PCR systems has been validated with white reaction tubes specific to these systems. Clear reaction tubes result in 5-10 times lower fluorescence signal in Bio-Rad instruments compared to white reaction tubes. In addition, device-specific reaction tubes should be used in the BMS device. The kit's stated analytical performance can only be achieved using validated tubes.
4. To test for contamination, a negative control reaction containing NTC (Nuclease-free Water) must be set up in each run.

Program the qPCR device as follows and add the reagents into the qPCR tubes, close the tubes, place them into the qPCR instrument and start the run. (Table 6)

Table 6. RT-qPCR Program Details

Reaction Setup		RT-qPCR Program				QR Code for Thermal Protocol and Plate Setup
		CFX96 Touch™/CFX96™ Dx/CFX Opus 96™/CFX Opus 96™ Dx (Bio-Rad) and Magnetic Induction Cycler (Mic) (Bio Molecular System - BMS)				
Reagent	Volume/Rxn	Step	Cycle No.	Temperature	Duration	
2X qPCR Mix	5 µL	Enzyme Activation	1 Cycle	52 °C	3 min	
		Pre-Incubation	1 Cycle	95 °C	10 sec	
Oligo Mix	2.5 µL	Denaturation	12 Touchdown Cycles:	95 °C	1 sec	
		Annealing and Extension	1 °C decrement in annealing temperature per cycle	67 °C to 56 °C	15 sec	
Template Nucleic Acid/NTC/PC	2.5 µL	Denaturation	30 Cycles	95 °C	1 sec	
		Annealing and Extension		55 °C	15 sec	
Total Reaction Volume	10 µL	Detection (Reading)			(FAM-Green)/(HEX-Yellow) (ROX-Orange)/(CY5-Red)	


https://www.bioeksen.com.tr/files/L_TD_43P/



WARNING: The qPCR thermal programs (Bio-Rad and BMS-Mic) and the plate setup (Bio-Rad) file should be downloaded from the QR code or link above.

2. Interpretation of the Assay Results

All default analysis options (e.g., auto-calculated threshold) in the Mic software should not be changed to calculate Cq values.

The shape of the amplification curves should be examined for all reaction wells returning with Cq values. All the sigmoidal curves above the threshold should be recorded as "positive" and their Cq values should be recorded. Non-sigmoidal curves should be recorded as "negative".

Table 7. Expected Performance of Kit Controls

Control Type	Control Name	Purpose	Expected Results and Cq Values	
			IC (HEX)	Target
Negative Control	NTC	Contamination control during RT-qPCR	Not detected (No Cq)	Not detected (No Cq)
Positive Control	PC	Reagent integrity	Detected (Cq≤26)	Detected (Cq≤26)
Internal/Extraction Control	IC	To monitor the integrity of nucleic acid extraction and RT-qPCR from each sample	Detected (Cq≤26) If the IC Cq>26, check the target Cq.	If the target has a valid Cq value according to the result interpretation criteria, IC is valid.

If any control does not work as described above, the run is reported as follows:

1. **Contamination:** If Cq≤26 in any NTC test channel.
Recommended action: Repeat the analysis paying attention to the "Warnings and Limitations" section.
2. **Reagent Problem:** In case a sigmoidal curve with a Cq≤26 cannot be obtained for any of all the samples tested in the run, including the controls.
Recommended action: Test the "PC-CVD19/FLU" provided with the kit setting up the PC reaction as shown in Table 6. If the test result is positive, the run is valid. In case the software generates a "Reagent Problem" again, contact the manufacturer.
3. **Invalid:** If the sample has a Cq>26 in the HEX channel of the test tube and no Cq in the other channels.
Recommended action: Sampling isn't successfully done, or there is a problem during the sample transportation. A new sample from the same patient should be collected and tested again.


If all the controls are valid, the results are interpreted as follows:

Table 8. Interpretation of Patient Results




















Target	Internal Control (IC)	Result Interpretation
Positive (+)	Positive (+) or Negative (-)	Results are valid Target is detected
Negative (-)	Positive (+)	Results are valid Target is not detected

The results generated by the qPCR instruments can be reported manually, as explained earlier, or automatically using the "Sigmoida" software. To obtain the "Sigmoida" software installer, please send an email to support@bioeksen.com.tr.

3. Warnings and Limitations

- 
1. False-negative results may occur if inadequate numbers (lower than the LoD) of organisms are present in the specimen.
 2. Mutations within the target regions could affect primer and/or probe binding, resulting in failure to detect the presence of agents.
 3. The use of cotton or calcium alginate swabs or swabs with wooden sticks can lead to false negative results since they may contain substances that inactivate some pathogens and inhibit PCR.
 4. A false-negative result may occur if a specimen is improperly collected, transported, or handled.
 5. The clinical specimens shall be collected by a healthcare provider in accordance with the specimen collection guidelines.
 6. Test procedures should be performed by personnel trained in the use of the kit.
 7. Except for liquid transfers, sample tubes should always be kept closed.
 8. Filtered and nuclease-free pipette tips should be used for sample transfer.
 9. The components in the kit should not be used together with different lot numbers or chemicals of the same name but from different manufacturers.
 10. **The caps of the reaction tubes must not be opened after the PCR run.** The PCR tubes should be placed in a bag and thrown away after the bag is tightly closed.
 11. The surfaces of the workbenches should be wiped with freshly diluted 10% bleach (0.5% NaClO) at the beginning and end of each day.
 12. Disposal of waste must be carried out in accordance with local, state, and federal regulations.

4. Explanation of Symbol

Symbol	Title of Symbol	Symbol	Title of Symbol	Symbol	Title of Symbol
	European Conformity CE Mark		Batch code		Keep away from sunlight
	In vitro diagnostic medical device		Catalogue number		Protect from heat and radioactive sources
	Manufacturer		Non-sterile		Do not use if package is damaged and consult <i>instructions for use</i>
	Use-by date		Consult <i>instructions for use</i> or consult electronic <i>instructions for use</i>		Keep dry
	Negative control		Caution		Keep upright
	Positive control		Temperature limit		Contains sufficient for <n> tests
	Control				

5. Manufacturer and Technical Support



Bioeksen AR GE Teknolojileri A.Ş.
Huzur Mah. Metin Oktay Cad. Nürol Life Sitesi D Blok No:3/31, 34396 Sarıyer/İstanbul-TÜRKİYE
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Web: www.bioeksen.com.tr, e-mail: info@bioeksen.com.tr

Technical Support: support@bioeksen.com.tr

Notice to User: Please inform us about product-related incidents at "vigilance@bioeksen.com.tr" within 24 hours.

ALL RIGHTS RESERVED

For in vitro diagnostic use only.
For professional use only.

Cat No: BS-NA-510-100/BS-NA-510-250/BS-NA-510-500/BS-NA-510-1000

vNAT® Viral Nucleic Acid Buffer

Package Insert



1. Product Content

Table 1: Product Content, Storage Requirements, and Shelf Life

Component	Amount				Transport Conditions	Storage Conditions	Shelf Life
vNAT® Viral Nucleic Acid Buffer	100 Test (1 X 10mL)	250 Test (1 X 25mL)	500 Test (1 X 50mL)	1000 Test (1 X 100mL)	2-50°C	15-30 °C	18 Months

2. Intended Use and Test Principle

The vNAT® Viral Nucleic Acid Buffer is a **10x concentrated** viral nucleic acid extractive and preservative liquid for nasopharyngeal swab, oropharyngeal swab, oral/saliva swab samples. The nucleic acid extractive and preservative liquid inactivates all viral, bacterial, or eukaryotic pathogens in the sample within 1 minutes after contact with the clinical specimen. The vNAT® Viral Nucleic Acid Buffer allows from sample to qPCR in a minute.

3. Analytical Specifications

vNAT® Viral Nucleic Acid Buffer is validated for detection kits produced by Bioeksen R&D Technologies Inc.

4. Sampling Protocol

Clinical samples are collected from individuals by a healthcare provider in accordance with the CDC Specimen Collection Guidelines: <https://www.cdc.gov/coronavirus/2019-ncov/lab/guidelines-clinical-specimens.html>.

5. Sample Transportation, Storage, and Application Protocol

The specimens in the vNAT® Viral Nucleic Acid Buffer can be stored at 2-8°C and ship to the laboratory on ice pack. If a specimen is frozen at -70°C or lower, ship overnight to the laboratory on dry ice. It is important that specimens are not exposed to continuous freeze-thaw exposure.



WARNING:

- The VTM validated with the vNAT buffer is in accordance with the CDC directive and do not contain phenol-red (Preparation of viral transport medium, Centers for Disease Control and Prevention, SOP#: DSR-052-06).
- The Amies medium should not contain charcoal.

Standard Protocol (Samples in VTM/Saline/Amies)

- Vortex the sample tube at the highest speed for 3 seconds.
- Transfer 100 µl of the vNAT® Viral Nucleic Acid Buffer into a clean tube.
- Add 900 µl of the sample to the tube containing 100 µl vNAT® Viral Nucleic Acid Buffer.
- Mix the sample and the vNAT® Viral Nucleic Acid Buffer well by vortexing/shaking/pipetting.
- Incubate the tube for 1 minute at room temperature.
- 1000 µl mixture is ready to use in PCR reaction.

Protocol for Dry Swab Samples

- Transfer the swab sample into a tube containing 100 µl vNAT® Viral Nucleic Acid Buffer + 900 µl nuclease-free water.
- Apply the steps 1-6 of the "Standard Protocol".

6. Explanation of Symbol

Symbol	Title of Symbol	Symbol	Title of Symbol	Symbol	Title of Symbol
	European Conformity CE Mark		Batch code		Keep away from sunlight
	In vitro diagnostic medical device		Catalogue number		Protect from heat and radioactive sources
	Manufacturer		Non-sterile		Keep dry
	Use-by date		Consult instructions for use or consult electronic instructions for use		Keep it upright
	Temperature limit		Contains sufficient for <n> tests		Caution

For in vitro diagnostic use only.
For professional use only.

7. Manufacturer and Technical Support



Bioeksen R&D Technologies Incorporated Company

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Notice to User: Please inform us about product-related incidents at "vigilance@bioeksen.com.tr" within 24 hours.