CYANAGEN
Reagents for Molecular Biology

Instruction for Use

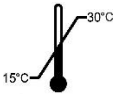
STAR BEADS VIRAL DNA/RNA Extraction Kit

CE

IVD For in vitro diagnostic use

REF SBK186

Cyanagen srl, Via Stradelli Guelfi 40/c, Bologna, Italy



Store at 15-30°C

Nov 2020/Rev 00

www.cyanagen.com

About us

Cyanagen is a biotech company located in Bologna, dedicated to research, development and production of reagents for molecular diagnostic since 2003 and one of the leading companies in the field of reagents for Western blotting and ELISA.
The main product lines are focused on chemiluminescence and fluorescent dyes for biological analysis, genomics, proteomics and chemical sensors.
They are based on Cyanagen internationally patented technologies and achieve outstanding performance in terms of sensitivity and stability.
The products are extremely versatile and perfectly suited to the latest analytical instrumentation. These products are also available as OEM.

Cyanagen srl has a certified Quality System

ISO 9001:2015 QUALITY CERTIFIED

Table of contents

1. General Information

1.1 Description

STAR BEADS Viral DNA/RNA Extraction Kit provides a rapid and efficient purification method to isolate high-quality viral DNA/RNA from cell-free biological fluids such as serum, plasma, urine, cell free body fluids, cell culture supernatants, and rinse liquid from swabs samples.

The procedure can be used for the isolation of viral DNA/RNA from a broad range of viruses. However, performance cannot be guaranteed for every virus species and must be validated by the customer. The amount of purified viral DNA/RNA depends on the sample type, the virus titer, sample source, transport, storage, and age.

STAR BEADS Viral DNA/RNA Extraction Kit can be used on common liquid handling instruments or automated magnetic separators. The actual procedure time depends on the configuration of the instrument, and the magnetic separation system used.

1.2 Intended use

STAR BEADS Viral DNA/RNA Extraction Kit is developed, designed and tested for extraction and purification of viral DNA/RNA from cell-free biological fluids such as serum, plasma, urine, cell free body fluids, cell culture supernatants, and rinse liquid from swabs samples. The kit can be used for both research purposes and in vitro diagnosis (IVD). The product has not been tested for use in drug development, nor is suitable for administration to humans or animals.

The product is intended for use by professionals only, such as technicians, physicians and biologists trained in molecular biological techniques. It is designed to be used with any downstream application employing enzymatic amplification or other enzymatic modifications of DNA/RNA followed by signal detection or amplification. Any diagnostic results generated by using the sample preparation procedure in conjunction with any downstream diagnostic assay should be interpreted with regard to other clinical or laboratory findings.

To minimize irregularities in diagnostic results, adequate controls for downstream applications should be used.

The STAR BEADS Viral DNA/RNA Extraction Kit does not provide a diagnostic result. It is the user's sole responsibility to use and validate the kit in conjunction with a downstream in vitro diagnostic assay.

1.3 Principle

The procedure is based on the reversible adsorption of nucleic acids to the STAR BEADS magnetic beads under appropriate buffer conditions, while impurities are efficiently removed during the wash steps. The lysis of the sample is obtained by incubation with a lysis reagent (STAR BEADS Viral Lysis Buffer). A suspension of magnetic beads (STAR BEADS Magnetic Beads) is added to the lysate in a solution that facilitates the binding of nucleic acids to the beads. After magnetic separation, the magnetic beads are washed with two special washing reagents (STAR BEADS Washing Buffer 1 and STAR BEADS Washing Buffer 2) to remove contaminants and salts. A further optional washing with absolute ethanol can be performed. The viral DNA/RNA is then eluted with a DNase/RNase free water that induces the nucleic acid to detach from the magnetic beads. The resulting high-quality total nucleic acid is then ready for use in downstream applications such as RT-PCR, PCR, or any type of other enzymatic reactions, or it can be frozen.

1.4 COVID-19 RNA Extraction validation

STAR BEADS Viral DNA/RNA Extraction Kit has been validated for SARS-CoV-2 RNA isolation from clinical samples at the laboratory of U.O. Microbiologia, Pievesestina (FC, Italy).

For the clinical evaluation study, 166 clinical nasopharyngeal swab specimens previously tested for COVID-19 diagnosis were used. Of these, 45 were tested positive for SARS-CoV-2, and 121 were tested negative for SARS-CoV-2 RNA. RNA isolation was performed in parallel using STAR BEADS Viral DNA/RNA Extraction Kit and a Reference RNA Isolation kit, routinely used in the laboratory for COVID-19 diagnosis. Extracted RNA was then amplified for the detection of SARS-CoV-2, by identification of three target genes in compliance with recommendations of both Charité Medical Center and US Centers for Disease Control and Prevention.

Data demonstrated a 100% concordance between test results on samples extracted with STAR BEADS Viral DNA/RNA Extraction Kit and the Reference RNA Isolation kit. The diagnostic sensitivity and specificity were also 100%.

KIT	Reference RNA Isolation Kit (U.O. Microbiologia, Pievesestina)			
STAR BEADS Viral DNA/RNA Extraction Kit		+	-	Total
	+	45	0	45
	-	0	121	121
	Total	45	121	166

Concordance between test results obtained with STAR BEADS Viral DNA/RNA Extraction Kit and the Reference RNA Isolation kit for COVID-19 diagnostics. STAR BEADS Viral DNA/RNA Extraction Kit has been validated for RNA isolation from SARS-CoV-2 clinical samples on 166 samples (45 positive samples and 121 negative samples) from nasopharyngeal swabs. RNA isolation was performed in parallel using STAR BEADS Viral DNA/RNA Extraction Kit and a Reference RNA Isolation kit. RNA was amplified with Allplex™ 2019-nCoV Assay (Seegene). Courtesy of U.O. Microbiologia, Pievesestina (FC, Italy).

2. Components and other materials required

2.1. Kit Contents

Please note that components from different batches cannot be used interchangeably.

	Code	Symbol	Kit size (96 preps) SBK186,1X96	Kit size (8 x 96 preps) SBK186,8X96	Kit size (64 x 96 preps) SBK186,64X96
STAR BEADS Viral Lysis Buffer*	**SBLB187**		**30 mL**	**250 mL**	**2 x 1L**
STAR BEADS Magnetic Beads	**SBB188**		**2,4 mL**	**18 mL**	**150 mL**
STAR BEADS Washing Buffer 1* (concentrate)	**SBWB189**		**12,5 mL**	**100 mL**	**800 mL**
STAR BEADS Washing Buffer 2 (concentrate)	**SBWB190**	**None**	**10 mL**	**80mL**	**650 mL**

* Contains chaotropic salt. Take appropriate laboratory safety measures, and wear gloves when handling. Not compatible with disinfecting agents that contain bleach. See Material Safety Data Sheet for safety information.

2.2. Shipping and Storage

The kit is shipped at room temperature. Store all the components at room temperature (15 to 30°C). Do not use the product after the expiration date showed on the label. Please keep the kit away from heat forces and light.

2.3 Equipment and Materials supplied by the user

2.3.1. Equipment needed for manual RNA isolation

- Micropipettes suitable for pipetting 10-20 µL, 150 µL, 300 µL, 500 µL.
- Vortex
- Magnet or magnetic separation plate for magnetic beads separation
- DNase/RNase free vials or plates
- DNase/RNase free disposable tips (filter tips are recommended)
- Ultra-Low Temperature Freezer for storage of isolated samples at -80 °C
- Biological Safety Cabinet suitable for work with potentially infectious samples. Please follow local guidelines for working with potentially infectious

material in particular if the material is derived from a human or animal sample.

2.3.2. Equipments needed for automated RNA isolation

This kit is compatible with magnetic-based robotic workstations and with liquid handling robotic platforms. The needed equipment may vary depending on the instrument used.

The equipments needed are:

- Magnetic-based robotic workstations or liquid handling robotic platforms for nucleic acid isolation
- Personal Protective Equipment (PPE): Please follow local guidelines for working with potentially infectious material in particular if the material is derived from a human or animal sample.
- Platform-specific consumables and plastics.
- Ultra-Low Temperature Freezer for storage of isolated samples at -80 °C
- Biological Safety Cabinet suitable for work with potentially infectious samples. Please follow local guidelines for working with potentially infectious material in particular if the material is derived from a human or animal sample.

2.3.3. Reagents to be supplied by the user

- Isopropanol for Molecular Biology
- Ethanol (96-100%) for Molecular Biology
- DNase/RNase-free water

3. Before starting

Please take a few moments to read this handbook carefully before beginning your preparation.

3.1. Preparation of STAR BEADS Washing Buffer 1

STAR BEADS Washing Buffer 1 is supplied as a concentrate. Before using it for the first time, transfer all the content of STAR BEADS Washing Buffer 1 (concentrate) in a clean bottle (not provided) and add Ethanol (96-100%, not provided) as indicated in the following table:

Kit size	STAR BEADS Washing Buffer 1 (concentrate)	Ethanol (96-100%) to add	STAR BEADS Washing Buffer 1 (ready-to-use)
1x96	12,5 ml	37,5 mL	50 mL
8x96	100 ml	300 mL	400 mL
64x96	800 mL	2.4 L	3.2 L

Buffer **STAR BEADS Washing Buffer 1** is stable until expiration date when stored closed at room temperature (15-30°C).

3.2 Preparation of STAR BEADS Washing Buffer 2

STAR BEADS Washing Buffer 2 is supplied as a concentrate. Before using it for the first time, transfer all the content of STAR BEADS Washing Buffer 2 (concentrate) in a clean bottle (not provided) and add Ethanol (96-100%, not provided) as indicated in the following table:

Kit size	STAR BEADS Washing Buffer 2 (concentrate)	Ethanol (96-100%) to add	STAR BEADS Washing Buffer 2 (ready-to-use)
1x96	10 ml	40 mL	50 mL
8x96	80 ml	320 mL	400 mL
64x96	650 mL	2.6 L	3.25 L

Buffer **STAR BEADS Washing Buffer 2** is stable until expiration date when stored closed at room temperature (15-30°C).

3.3 STAR BEADS Viral Lysis Buffer

STAR BEADS Viral Lysis Buffer may form salt precipitates upon storage below 20-25°C. If any precipitate formed, incubate the buffer bottle at 40 °C until all of the precipitates is re-dissolved.

3.4 STAR BEADS Washing Buffer 1

STAR BEADS Washing Buffer 1 may form salt precipitates upon storage below 20-25°C. If any precipitate formed, incubate the buffer bottle at 40 °C until all of the precipitates is re-dissolved.

3.5 STAR BEADS Magnetic Beads

Before distributing the beads, make sure that the beads are completely re-suspended. Shake the storage bottle well or place it on a vortexer shortly.
Magnetic separation time depends on the magnetic strength of the magnetic separator, on the distance of the separation plate from the magnetic pins, and on the the volume to be processed. Optimization may be required for each system.

4. Sample preparation

It is recommended to inactivate virus before DNA/RNA isolation.

4.1 Serum

Use a 150 µL aliquote of sample to proceed with Step 1- Lyse the sample.

4.2 Nasopharyngeal/oropharyngeal swab

For dry swab, place the dry swab in 400-500 µL of sterile PBS with gentle shaking for 30 minutes (PBS should cover completely the swab head). Use a 150 µL aliquote to proceed with Step 1-Lyse the sample.

For swab in Universal Transport Media or other preservation solution, incubate the swab for 30 minutes with gentle shaking to release sample material. Use a 150 µL aliquote to proceed with Step 1-Lyse the sample.

4.3 Broncheoalveolar lavage and Sputum

Use a 150 µL aliquote of sample to proceed with Step 1-Lyse the sample.

4.4 Urine

Use a 150 µL aliquote of sample to proceed with Step 1- Lyse the sample.

4.5 Cell culture supernatants

Use a 150 µL aliquote of sample to proceed with Step 1- Lyse the sample.

5. Protocol for the isolation of viral DNA/RNA from cell-free samples (manual procedure)

5.1 Lyse the sample

Add 300 µL of STAR BEADS Viral Lysis Buffer to the sample and mix well by inversion for 4-6 times. Incubate at Room Temperature for 10 minutes.
Note: optimization may be required for incubation time and incubation temperature, depending on the sample type.
Optional: for particular needs, viscous samples and simultaneous extraction of viral DNA/RNA, add 10 µL of Proteinase K (20 mg/mL). Mix and incubate at 56°C for 10 minutes.

5.2 Bind viral DNA/RNA

Add 500 µL isopropanol and 20 µL STAR BEADS Beads to the lysed sample. Mix by shaking for 5 min at room temperature (Optional: Mix by pipetting up and down or inversion)**.** Remove supernatant after 1-2 min separation on the magnetic support.

5.3 Wash magnetic beads

Add 500 µL STAR BEADS Washing Buffer 1 (prepared as reported in the section "Before Starting") and mix well by pipetting the beads up and down several times and/or by vortexing. Remove supernatant after 1-2 min separation on the magnetic support.

5.4 Wash magnetic beads

Add 500 µL STAR BEADS Washing Buffer 2 (prepared as reported in the section "Before Starting") and mix well by pipetting the beads up and down several times and/or by vortexing. Remove supernatant after 1-2 min separation on the magnetic support.

5.5 Wash magnetic beads

Add 500 µL ethanol (96-100%) and mix well by pipetting the beads up and down several times and/or by vortexing. Remove supernatant after 1-2 min separation on magnetic support.

5.6 Dry magnetic beads

Incubate at 55 °C for 10-15 min or at room temperature until the magnetic beads are dried.

5.7 Elute highly pure DNA/RNA

Add 50-100 µL DNase/RNase-free H_2O and mix by shaking (Optional: Mix by pipetting up and down). It is essential to cover the STAR BEADS Beads completely with elution buffer during this step.

5.8 Collect DNA/RNA

Separate 1-2 min on the magnet and transfer viral DNA/RNA eluate into a new DNase/RNase free plate/tube.

6. Automatic extraction on KingFisher™ Flex

This protocol is for purification of viral DNA/RNA from cell-free body fluids and samples on KingFisher™ Flex Magnetic Particle Processor with 96 Deep-Well Head.
Before starting, ensure that the proper program MVP_2Wash_200_Flex has been downloaded from the product page and loaded onto the instrument.

6.1 Set up the plates.
Use standard 96 deep well plates compatible with KingFisher™ Flex.
Set up the Wash, Elution, and Tip Comb Plates outside the instrument according to the following table for the **MVP_2Wash_200_Flex** protocol:

Plate	Plate position	Component	Reagent Volume per well
Wash 1 Plate	**2**	**STAR BEADS Washing Buffer 1 (ready-to-use)**	**500 µL**
Wash 2 Plate	**3**	**STAR BEADS Washing Buffer 2 (ready-to-use)**	**500 µL**
Elution Plate	**4**	**DNase/RNase free water***	**50 µL**
Tip Comb	**5**	**Place a 96 Deep-well Tip Comb in a Standard Plate**	

Set up the **Sample Plate** by adding in the order the following reagents to each well of a standard 96 deep well plate:

- 300 µL STAR BEADS Viral Lysis buffer
- 500 µL isopropanol
- 150 µL of sample
- 20 µL of STAR BEADS Magnetic Beads. Be sure to mix well the bottle of STAR BEADS Magnetic Beads before every pipetting.

6.2 Start the run

Select the program MVP_2Wash_200_Flex on the instrument.
Start the run. Load the prepared plates into the indicated position when prompted by the instrument.

6.3 Collect DNA/RNA

After the run is complete (~25 minutes), remove the elution plate from the instrument.

7. Automatic extraction on Auto-Pure96 (Allsheng)

This protocol is for purification of viral DNA/RNA from cell-free body fluids and samples on Auto-Pure96 (Allsheng).

7.1 Set up the program

Step	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Name	Load	Bind	Wash 1	Wash 2	Wash 3	Elution	Unload
Plate	1	2	3	4	5	8	2
Mix Time (min)		5.0	1.0	1.0	1.0	5.0	
Mix amp (%)		80	80	80	80	80	
Wait Time (min)		0	0	0	10	0	
Volume (μL)		970	500	500	500	100	
Mix Speed (1-10)		8	5	5	5	2	
Temp (°C)		OFF	OFF	OFF	OFF	OFF	
Segment (1-5)		3	3	3	3	3	
Cycle times (1-10)		1	1	1	1	3	
Mag. Speed (1-10)		1	1	1	1	1	
Lip-lvl		0	0	0	0	0	

Anti-splash (0-30)s		0	0	0	0	0	
Estimated (s)		140	112	112	112	264	
1st Segment time		20	20	20	20	20	
2nd Segment time		20	20	20	20	20	
3rd Segment time		20	20	20	20	20	

7.2 Set up the plates

For pre-filled plates, contact sales@cyanagen.com
Use standard 96 deep well plates compatible with the instrument.
Set up the **Bind, Wash 1, Wash 2, Wash 3, Elution, and Tip Comb Plates** outside the instrument according to the following table

Plate	Plate position	Component	Reagent Volume per well
Loading Plate	**1**	**No reagent**	**----**
Tip Comb		**Place a 96 Deep-well Tip Comb in the Loading Plate Plate**	
Bind Plate	**2**	**STAR BEADS Viral Lysis buffer**	**300 µL**
		Isopropanol	**500 µL**
		Sample	**150 µL**
		STAR BEADS Magnetic Beads	**20 µL**
Wash 1 Plate	**3**	**STAR BEADS Washing Buffer 1 (ready-to-use)**	**500 µL**
Wash 2 Plate	**4**	**STAR BEADS Washing Buffer 2 (ready-to-use)**	**500 µL**
Wash 3 Plate	**5**	**Ethanol (96-100%)***	**500 µL**
Elution Plate	**8**	**DNase/RNase free water***	**100 µL**

* not included
§ Be sure to mix well the bottle of STAR BEADS Magnetic Beads before every pipetting

7.3 Start the run

Select the program on the instrument.
Load the prepared plates into the indicated position when prompted by the instrument. Start the run.

7.4 Collect DNA/RNA

After the run is complete (~35 minutes), remove the elution plate from the instrument.

8. Automatic extraction on Tecan Freedom Evo®

The following indications give an overview of already tested settings on Tecan Freedom Evo® and can serve as a first guideline during the automation process.

Te-Shake™ settings (Tecan):
Lysis: 1400 rpm for 10 min
Binding: 1400 rpm for 10 min
Washing: 1400 rpm for 5 min
Drying: 55°C for 15 min
Elution: 1000 rpm for 5 min

Speed and time settings have to be adjusted when using a plate shaker for the binding, washing and elution steps.
For reliable results, be sure to mix well the STAR BEADS Magnetic Beads during the extraction process. Beads should be completely resuspended before every step using the plate shaker or, alternatively, by pipetting up and down several times.

9. Troubleshooting

Low yield

Possible Cause	Precautions/Remedies
Insufficient elution buffer volume	Beads pellet must be covered completely with elution buffer
Insufficient performance of elution buffer during elution step	Remove ethanol from the final washing step completely before proceeding with elution.
Beads over-drying	The beads should be free from any visible liquid ethanol but not completely dried out. Reduce drying time.
Loss of beads	Increase time for magnetic separation and decrease aspiration speed.

Beads carryover

Possible Cause	Precautions/Remedies
Magnetic separation time too short	Increase separation time
Aspiration speed too high during the elution step	Reduce aspiration speed for elution step.

Low purity of nucleic acids

Possible Cause	Precautions/Remedies
Insufficient washing procedure	Use only the appropriate separator and plates combination. Ensure that the beads are resuspended during the washing. If the agitation is not sufficient to

	resuspend completely, mix repeatedly.
Evaporation of ethanol from Wash buffer	Close the bottles of the buffer well, avoiding the evaporation of the ethanol.

Poor performance of DNA/RNA in downstream applications

Possible Cause	Precautions/Remedies
Ethanol carryover	The beads should be free from any visible liquid ethanol before the elution step.
RNA degradation	Avoid any RNase contamination

Low reproducibility of DNA/RNA extraction

Possible Cause	Precautions/Remedies
STAR BEADS Viral Lysis Buffer forms salt precipitates if stored below 20-25°C	Incubate the buffer bottle at 40 °C until all of the precipitates is re-dissolved.
STAR BEADS Washing Buffer 1 forms salt precipitates if stored below 20-25°C	Incubate the buffer bottle at 40 °C until all of the precipitates is re-dissolved.

10. Warning and Precautions

- This kit is for In Vitro Diagnostic Use
- This Kit should only be used by skilled and qualified persons in IVD tests.
- When working with chemicals, always wear protective equipment accessories (goggles, work clothes, hats, shoes, gloves, etc.). For more information, please refer to the appropriate material safety data sheets (MSDSs) available online at www.cyanagen.com\MSDS\
- Clinical samples and other specimen to be tested should be considered as potentially infectious substances and processed strictly in accordance with laboratory biosafety requirements

- Components from different batches cannot be used interchangeably. Do not collect reagents from different bottles of the same lot. After use, immediately close all bottles to avoid leakage, changes in buffer concentrations or buffer contamination. After the first opening, keep all the bottles in an upright position.
- Do not use a kit after the expiration date.
- Avoid any RNase contamination. Always wear gloves and change them often, especially after contact with skin, hair or other potentially RNase-contaminated surfaces. Use RNase-free solutions and RNase-free certified, disposable plasticware and filter tips. Maintain a separate area for RNA work. Carefully clean all the surfaces.
- Do not add bleach or acidic solutions directly to STAR BEADS Lysis Buffer and STAR BEADS Washing Buffer 1. They contain guanidine salts, which can form highly reactive compounds when combined with bleach. If liquid containing these buffers is spilt, clean with suitable laboratory detergent and water.
- Cyanagen has not tested the liquid waste generated by the STAR BEADS Viral DNA/RNA Extraction Kit procedures for residual infectious materials. Contamination of the liquid waste with residual infectious materials is highly unlikely, but cannot be excluded completely. Therefore, liquid waste must be considered infectious and be handled and discarded according to local safety regulations.
- In case of spillage or damage of bottles, proceed with the disposal of the components as chemical waste according to local safety regulations.
- Should a user detect a misfunctioning of the Product concerning the stated specifications, download the claim form from https://www.CYANAGEN.com/cyanacontent/uploads/Pages-content/Support/support-request-form1.pdf, fulfil and submit it to CYANAGEN, technical.support@CYANAGEN.com, for internal quality analysis.

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Contact information and technical support:
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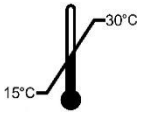
11. Simboli, Symbols, Symboles, Símbolos, Símbolos, Symbole, Συμβολα, Symbolit, Symboler

EN 980 - EDMA

REF	Codice di riferimento o di ordine / reference or order code / Référence ou numéro de commande / referencia o número de pedido / referência ou número da encomenda / Referenz oder Bestellnummer / κωδικός προϊόντος ή παραγγελίας / Refarans veye sipariş numarsı / referenční nebo objednací číslo
LOT	Lotto / lot / Lot / lote / lote / charge / παρτίδα / parti / šarže
	Data di scadenza / expiry date / date d'expiration / Fecha de caducidad / Data de vencimento / Verfallsdatum / Ημερομηνία λήξης / Son kullanma targhi / datum expirace
IVD	Per uso diagnostico in vitro / For in vitro diagnostic use / Pour diagnostic in vitro / Para uso diagnóstico In vitro / aplicação do diagnóstico In vitro / Für den Gebrauch in der IN VITRO DIAGNOSTIK / για in vitro διαγνωστική χρήση / in vitro diagnostik kullanım / pro použití in vitro
CE	Marcatura CE secondo le direttive IVD 98/79/CE / CE marking according to IVD guidelines 98/79/EC / marquage CE conforme aux directives IVD 98/79/EC / marcado CE según directiva de IVD 98/79/CE / marcação-CE segundo a directriz-IVD 98/79/CE / CE-Markierung bei Erfüllung der IVD Richtlinie 98/79/EG / Σημανση CE βάσει κοινοτικής οδηγίας IVD 98/79/EC / 98/79/EC IVD tüzüğüne göre CE işareti / CE označení dle IVD 98/79/EU



Conservare a 15-30°C / keep at 15-30°C / conserver à 15-30°C / Conservar a 15-30°C / conservar a 15-30°C / Lagerung bei 15-30°C / φύλαξη στους 15-30°C / 15-30°C da saklayınız / skladovat při 15-30°C

Fabbricante / Manufacturer / Fabriquant / produzido por / Fabricante / produkt der / κατασκευάζεται από / tarafından üretilmiştir / výrobce

Rischio biologico / Biohazard / Risque Biologique / Riesgo Biológico / Risco Biológico / Βιολογικός κίνδυνος / Riziko tehlike biyolojik/ Biologicky nebezpečné

Consultare la metodica operativa / consult instructions for use / consulter le mode opératoire / consultar las instrucciones de uso / consultar as instruções de uso / Schauen Sie die Arbeitsanleitung an / συμβουλευτείτε τις οδηγίες χρήσης / kullanımda başvurulacak bilgiler / Sledujte návod k použití

12. Ordering information

PRODUCT	ORDER-NO.	UNIT SIZE
STAR BEADS Viral DNA/RNA Extraction Kit	SBK186,1X96	1x96 samples
	SBK186,8X96	8x96 samples
	SBK186,64X96	64x96 samples

For pre-filled plates, please contact sales@cyanagen.com

For further information

visit **www.cyanagen.com**

contact **technical.support@cyanagen.com**

For orders: **sales@cyanagen.com**

Warranty Disclaimer at
www.cyanagen.com/warranty-disclaimer/

CYANAGEN
Reagents for Molecular Biology