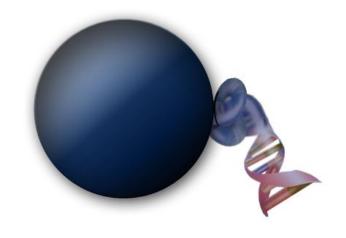
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MagSi-NA Pathogens

Art.No.MDKT00210096
MDKT00210960



Product Manual

Version 9.1 | 09-12-2022



Revision history		
Revision	Release date	Remarks
1.0	16/03/2020	Initial release
9.0	08/03/2022	Updated section 4.3, layout changes
9.1	09/12/2022	New company style



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1. General Information

1.1 Intended Use

MagSi-NA Pathogens is intended for Research Use Only (RUO). The kit is suited for qualified personnel only.

The kit is intended for manual and automated isolation of nucleic acids (DNA and RNA) from a wide range of samples. Processing time for the preparation of 96 samples is about 40 minutes. The kit requires no phenol/chloroform extraction or alcohol precipitation and eliminates the need for repeated centrifugation, vacuum filtration or column separation. It allows safe handling of potentially infectious samples, and is designed to avoid sample-to-sample cross-contaminations. The obtained nucleic acids can be used directly as template for downstream applications such as PCR, qPCR, qRT-PCR or any kind of enzymatic reaction.

MagSi-NA Pathogens is suitable for use with blood samples, liquid samples (e.g. plasma, serum, urine, swab washes), tissue samples, feces. For details on the individual procedures for sample pre-treatment see below.

MagSi-NA Pathogens magnetic beads are optimized for use in isolating total nucleic acids. The beads are easy to handle and are supplied in an optimized storage buffer for increased suspension time.

1.2 Kit specifications

The kit provides reagents for extraction of total nucleic acids from 200 μ L liquid sample or 200 μ L homogenized tissue samples, cells or suspended feces. Total nucleic acids are finally eluted in a volume of 100 μ L Elution Buffer.

The obtained nucleic acids should be used for qPCR, qRT-PCR immediately after extraction. Storage at <-20°C is recommended for later analysis.

1.3 Basic principle

Samples are lysed under denaturing conditions by adding Lysis Buffer PAI and Proteinase K. During the incubation the released nucleic acids can bind to the MagSi-PA VII magnetic beads. After magnetic separation and discard of the supernatant, the beads are washed three times using alcoholic buffers (Wash Buffers I and II) to remove contaminants and salts. A drying step makes sure all traces of ethanol from the final wash steps are removed. Finally, purified nucleic acids are eluted with low-salt Elution Buffer and can directly be used for downstream applications.



2. Materials

2.1 Kit Contents

	96 preps MDKT00210096	10x96 preps MDKT00210960
Lysis Buffer PA1	20 mL	200 mL
Binding Buffer U1	40 mL	400 mL
Wash Buffer I	2 x 80 mL	2 x 800 mL
Wash Buffer II	80 mL	800 mL
Elution Buffer	20 mL	200 mL
Proteinase K	20 mg (for 1.1 mL working solution)	200 mg (for 11 mL working solution)
Poly-A-RNA	0.3 mg (for 120 μL working solution)	3 mg (for 1.2 mL working solution)
Poly-A-RNA Buffer	0.5 mL	5 mL
MagSi-PA VII	2 mL	20 mL
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2.2 Reagents, consumables and equipment to be supplied by the user

2.2.1 Reagents

• molecular biology grade (nuclease free) water to reconstitute Proteinase K

2.2.2 Consumables and equipment for manual use or automated processing on liquid handling robots

Product	Manual use	Automated use
Sample containers	1.5 or 2 mL microtubes	Recommended: Riplate®SW 96, PP, 2 mL, (Ritter, 43001– 0020) Nunc™ 96-well Polypropylene DeepWell™ Storage Plate 2.0 mL, (Thermo Scientific, Art.No. 278752)
Magnetic separation	MM-Separator M12 + 12 P Art.No. MDMG0001	MM-Separator 96 DeepWell Art.No. MDMG0013
Final container	1.5 or 2 mL microtubes	96-well microplate
Mixing	Tube Vortexer	Microplate shaker (min. 1000 RPM)

2.2.3 Consumables for processing on the PurePrep 96 System or KingFisher $^{\text{\tiny{TM}}}$ Flex instrument

Product	Art. No.	Contents
2 mL Deepwell Plate with square wells for KingFisher™/PurePrep 96	MDPL00200060	60 pieces
200 µL square-well Elution Plate for KingFisher™/PurePrep 96	MDPL00190060	60 pieces
96 well Tip-Comb for KingFisher™/PurePrep 96	MDPL00210060	60 pieces



3. Kit usage

3.1 Storage Conditions

All kit components including Proteinase K (lyophilized), Poly-A-RNA (lyophilized) and MagSi-PA VII can be stored at room temperature (18-25°C). When stored under the conditions mentioned, the kit is stable as indicated by the expiry date on the label.

3.2 Preparation of reagents

Reconstitute Proteinase K

- MDKT00210096 (96 preps), add 1.1 mL of molecular biology grade water to the vial of Proteinase K and vortex to dissolve. Store solutions of Proteinase K in aliquots at -20°C. Avoid repeated freezing and thawing. When stored accordingly, solutions are stable for at least 3 months.
- MDKT00210960 (10x96 preps), add 11 mL of molecular biology grade water to the vial of Proteinase K and vortex to dissolve. For aliquotation per 96 samples, make aliquotes of 1.05 mL and store solutions at -20°C. Avoid repeated freezing and thawing. When stored accordingly, solutions are stable for at least 3 months.

Reconstitute Poly-A-RNA

- MDKT00210096 (96 preps), add **120 µL of Poly-A-RNA Buffer** to the vial of **Poly-A-RNA (0.3 mg)** and vortex to dissolve. Store solutions of Poly-A-RNA at -20°C. Avoid repeated freezing and thawing. When stored accordingly, solutions are stable for at least 3 months.
- MDKT00210960 (10x96 preps), add **1.2 mL of Poly-A-RNA Buffer** to the vial of **Poly-A-RNA (3 mg)** and vortex to dissolve. For aliquotation per 96 samples, make aliquotes of 110 μL and store solutions at -20°C. Avoid repeated freezing and thawing. When stored accordingly, solutions are stable for at least 3 months.
- If there is any precipitate present in the buffers, warm the buffer to 25-37°C to dissolve the precipitate before use.
- For each sample, prepare Lysis Master Mix according to the table below. Prepare an excess of the Lysis Master Mix to compensate for pipetting inaccuracy especially when using multichannel pipettes etc. Use the Lysis Master Mix immediately after preparation.

Lysis Buffer PA1	200 μL
Poly-A-RNA	1 μL
solution	
Proteinase K	10 μL
solution	
Total	211 µL

 Immediately before use, resuspend MagSi-PA VII beads by vortexing for 20 seconds. If preferred, MagSi-PA VII beads can be premixed with Binding Buffer U1 for simultaneous addition to samples. The mixture must used on the day of preparation, and mixed well by vortexing before transfer to samples. For each sample, prepare Binding Buffer / Beads premix:



Binding Buffer U1	400 µL
MagSi-PA VII	20 μL
Total	420 µL

• Samples should be thoroughly mixed before use.

3.3 Safety instructions

Take appropriate safety measures, such as wearing a suitable lab coat, disposable gloves, and protective goggles. Follow local legal requirements for working with biological materials.

More information is found in the safety data sheets (SDS), available at www.magtivio.com under each magtivio kit and kit component.

Infectious potential of liquid waste left over after using the MagSi-NA Pathogens kit was not tested. Even though contamination of waste with residual infectious material is unlikely, it cannot be excluded completely. Therefore, liquid waste should be handled as being potentially infectious, and discarded according to local safety regulations.

3.4 Considerations

- 1. To avoid cross-contamination and DNA degradation, change pipette tips after each use and use nuclease-free filter-tips.
- 2. Avoid leaving bottles open to prevent contamination or evaporation of the kit reagents.
- 3. Do not combine components of different kits unless the lot numbers are identical.
- 4. Process only as many samples in parallel as the magnetic separator allows.
- 5. The elution can be done in smaller volumes of Elution Buffer. Although this may result in higher nucleic acids concentrations, overall yield may be lower. The yield may also be increased by prolonging the incubation time, and with pre-heated Elution Buffer (56°C).
- 6. The Elution Buffer does not contain EDTA.
- 7. Avoid samples containing coagulates or precipitates, as this may result in poor results or quality. Centrifuge samples before use.
- 8. The kit is compatible with whole blood treated with EDTA and citrate. Heparin is co-isolated and may interfere with subsequent PCR analyses.
- 9. It may occur that a small amount of beads is accidentally transferred with the final DNA sample, but most likely this will not inhibit subsequent applications. However, if desired another separation step can be performed to remove the beads.



3.5 Magnetic Separation systems

MagSi-NA Pathogens has been designed for use on the MM-Separator 96 DeepWell and MM-Separator M12 + 12 P. The MM-Separator M12 + 12 P (Art. No. MDMG0001) allows simultaneous processing of up to 12 samples in 2 mL microcentrifuge tubes. For processing in 96 DeepWell plates, use the MM-Separator 96 DeepWell (Art.No. MDMG0013).

For use with other magnetic separators, please contact the technical support at <u>support@magtivio.com</u>.

MagSi-NA Pathogens is compatible with the PurePrep 96 System and the KingFisher™ Flex Magnetic Particle Processor by Thermo Scientific™. Information of use on these instruments is described in sections Error: Reference source not found and 4.4 . Software protocol files are available on request.

3.6 Shaker settings

The speed settings for the microplate shaker described in the protocols that follow were defined with a specific instrument and microplate. When first using a plate shaker for incubation steps, the speed settings have to be set carefully for each specific plate to prevent cross contamination and spillage. Setting the speed of the shaker can be done by loading a microplate with a volume of dyed water equal to the working volume during each step, and step-wise increasing the shaker speed until droplets are observed on the surface of the plate. Set the shaker speed lower again.

3.7 Product use limitations

MagSi-NA Pathogens is intended for Research Use Only. Do not use for other purposes than intended. The kit components can be used only once.

No guarantee is offered when using sample material other than specified. It is recommended to check the suitability of the purified nucleic acids for each selected qPCR / qRT-PCR assay.

The end-user has to validate the performance of the kit for any particular use, since the performance characteristics of the kits have not been validated for any specific application. magtivio kits may be used in clinical diagnostic laboratory systems after the laboratory has validated the complete diagnostic system as required by CLIA' 88 regulations in the U.S. or equivalents in other countries.

The product is intended for use by trained personnel. The isolated nucleic acids can be used in most genomic applications, such as PCR, qPCR.

Diagnostic results generated using the sample preparation procedure should only be interpreted with regard to other clinical or laboratory findings. Adequate controls should be used in each set of isolations, especially when used for diagnostic purposes.



4. Protocols

4.1 Sample materials and pre-treatment procedures

Depending on the sample type, the following pre-treatment procedures are recommended:

Sample material Pre-treatment procedure		Further processing	
Liquid samples (e.g. swab wash solutions, saliva, plasma, serum, blood,)	N/A	Use up to 200 µL of the liquid sample and add 211 µL Lysis Master Mix Note: for swab wash solutions and saliva, a combined lysis/binding procedure can be used	
Dry swabs without transport media	Add an appropriate volume of molecular biology grade water to dried swab (swab should be completely submerged) and shake/vortex vigorously for 15 minutes. Take 200 µL for further processing	Use 200 µL of the wash solution and add 211 µL Lysis Master Mix Note: a combined/lysis binding procedure can be used	
Feces / stool	Add 1.5 mL molecular biology grade water or 1xPBS to a pea-size amount of feces. Mix well by vortexing. Spin down at low g-forces to remove remaining particulate sample residuals. Use 200 µL of the suspension for further processing.	Use up to 200 µL of the centrifuged suspension and add 211 µL Lysis Master Mix	
Tissue samples	Mechanically homogenize <30 mg of tissue sample in 500 μL molecular biology grade water using suitable devices (bead beater). Spin down for 1 min at 8,000 x g to remove debris. Use 200 μL of the suspension for further processing.	Use up to 200 µL of the centrifuged suspension and add 211 µL Lysis Master Mix	

For samples not mentioned in the table above, please contact magtivio for support protocols.



4.2 Manual processing of 200 µL liquid or pre-treated samples

Before starting

- Check if Lysis Master Mix was prepared according to section 3.2.
- Pre-treat of samples (if required) according to section 4.1
- Vortex magnetic beads thoroughly into a homogeneous suspension.

This protocol is intended for manual use of the kit. It can also be used as a guideline to set up an automated procedure on liquid handling instruments. For this suitable 96-well plates and accessories can be used. Make sure that the liquid handling devices is equipped with the required devices (shaker, incubator, magnetic separator etc.).

- 1. Transfer 200 μ L sample into a microtube. If the volume is lower than 200 μ L, bring the volume up to 200 μ L with 1 x PBS buffer or molecular biology grade water.
- 2. Add 211 µL Lysis Master Mix. Mix immediately and incubate on a shaker for 10 min at 1000 RPM. Spin down briefly to collect any sample from the microtube lid.
- 3. Add **20 μL MagSi-PA VII beads** and **400 μL Binding Buffer U1** Mix and incubate on a shaker for 5 at 1000 RPM. Spin down briefly to collect any sample from the microtube lid.
- 4. Place the samples on the magnetic separator and wait at least 1 minute to collect the beads. Remove supernatants without disturbing the attracted magnetic bead pellet.
- 5. Remove the sample plate from the magnetic separator and add **800 µL Wash Buffer I** to the tubes. Resuspend the beads by incubation of the samples on a shaker for 1 min at 1000 RPM (alternatively pipette the wash buffer up and down until the beads are resuspended completely). Place the samples in a magnetic separator and wait at least 1 minute to collect the beads. Remove the supernatants without disturbing the attracted bead pellet.
- 6. Repeat step 5 one more time with **800 μL Wash Buffer I** and one more time with **800 μL** Wash Buffer II .
- 7. Dry the beads on air for 10 min to evaporate the ethanol completely. If necessary, briefly spin down and remove any buffer residues before drying the attracted magnetic beads.
- 8. Remove the samples from the magnetic separator and add **100 µL Elution Buffer** Resuspend the attracted magnetic beads by repeated pipetting up and down. Incubate on a shaker for 10 min at 1000 RPM.
- 9. Place the tubes in a magnetic separator and wait at least 1 minute to collect the beads. Transfer the eluates to new tubes. The purified nucleic acids in the eluate are now ready to use.
 - If the transferred eluates appear turbid, briefly centrifuge the samples and carefully transfer the eluates.
 - If the transferred eluates contain magnetic particles, place the tubes on the magnetic separator again, separate for 1 minute and transfer the eluates.

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• The nucleic acids can be eluted with a lower volume of Elution Buffer (depending on the expected yield). The minimum volume for elution is 30 μ L and this can reduce the yield. If a large amount of nucleic acids is expected, the volume of Elution Buffer can be increased.



4.3 Protocol for the PurePrep 96 System

4.3.1 PurePrep 96 software protocol file

Please contact magtivio for the most recent software method files. We provide the corresponding files for direct upload on the PurePrep 96 System. Refer to the PurePrep 96 user manual regarding the upload procedure of the supplied software files to the instrument.

4.3.2 Preparation of processing plates

Plate filling instructions

Plate name	Plate type	Reagent (Kit component)	Volume	Instrument Position ("Plate")
Tip plate	2 mL Deepwell Plate with square wells for KingFisher™/PurePrep 96	Empty, for loading Tip- Comb only	N/A	1
		(pre-treated) sample adjusted to 200 µL	200 µL	
Sample Plate	2 mL Deepwell Plate with square wells for	Lysis Working Solution	211 µL	2
	KingFisher™/PurePrep 96	MagSi-PA VII beads*	20 µL	
		Binding Buffer U1 *	400 µL	
Wash Plate 1	2 mL Deepwell Plate with square wells for KingFisher™/PurePrep 96	Wash Buffer I	800 µL	3
Wash Plate 2	2 mL Deepwell Plate with square wells for KingFisher™/PurePrep 96	Wash Buffer I	800 µL	4
Wash Plate 3	2 mL Deepwell Plate with square wells for KingFisher™/PurePrep 96	Wash Buffer II	800 µL	5
Elution Plate	200 µL square-well Elution Plate for KingFisher™/PurePrep 96	Elution Buffer	100 µL	8

^{*}To be added after the initial lysis step (for all samples other than swab wash solutions or saliva)

Suitable plates can be purchased at magtivio (see section 2.2). We strongly recommend using only the plates which are intended to use on the PurePrep 96 System. Using unsuitable plates may result in extraction failure or instrument damage.



4.3.3 Detailed instructions

Follow exactly the instructions as given below. Label all plates thoroughly and unambiguously to avoid any misloading during the instrument loading procedure.

- 1. Prepare samples according to section 4.1 . Add 200 μ L of the sample to each well of the "Sample Plate". If the volume is lower than 200 μ L, bring the volume up to 200 μ L with 1 x PBS buffer or molecular biology grade water.
- 2. Add **211 µL of Lysis Working Solution** to each well of the "Sample Plate". Mix by pipetting up and down until a homogeneous mixture is visible (typically 3 4 times). Incubate on a suitable plate shaker for 10 min with shaking at 1000 rpm. Continue with preparing the remaining plates before continuing with the sample plate.
- 3. Prepare "Wash Plate 1" and "Wash Plate 2" with **Wash Buffer I.** Add **800 µL Wash Buffer I** to each well of the corresponding deep-well plates.
- 4. Prepare "Wash Plate 3" with **Wash Buffer II.** Add **800 μL Wash Buffer II** to each well of the corresponding deep-well plate.
- 5. Prepare "Elution Plate" with **Elution Buffer.** Add **100 µL Elution Buffer** to each well of the corresponding square-well elution plate.
- 6. Add 20 µL of MagSi-PA VII beads to each well of the "Sample Plate".
- 7. Add 400 µL of Binding Buffer U1 to each well of the "Sample Plate".
- 8. Switch on the PurePrep 96 System and select the protocol from the user defined protocols
- 9. Load all plates to the PurePrep 96 instrument on indicated positions, see section 4.3.2 (right-most column). Use the clockwise / counter clockwise buttons on the instrument to rotate the turntable to the indicated positions.
 - Make sure that the plates are loaded in the correct orientation (especially when using partially filled plates). Place the Al well of each plate to the Al mark on the instruments turntable. Make sure that the plates are fixed to the positions by the clamps.
- 10. Press on the Tab "Run Prog.", select the shortcut icon for the protocol and press Run to start the protocol
- 11. At the end of the run remove all plates from the instrument



4.4 Protocol for the KingFisher Flex™ Magnetic Particle Processor

4.4.1 KingFisher BindIt software protocol

Please contact magtivio for the most recent BindIt software method files. We provide the corresponding files for direct upload on the KingFisher $^{\text{TM}}$ magnetic particle processors. A PDF description of the method file is included. Refer to the BindIt software manual regarding the upload procedure of the supplied software files to the instrument.

4.4.2 Preparation of processing plates

Plate filling instructions

Plate	Plate type	Reagent (Kit component)	Volume
Sample Plate	2 mL Deepwell Plate with square wells for KingFisher™/PurePrep 96	(pre-treated) sample adjusted to 200 µL Lysis Master Mix MagSi-PA VII beads*	200 μL 211 μL 20 μL
Wash Plate 1	2 mL Deepwell Plate with square wells for KingFisher™/PurePrep 96	Binding Buffer U1 * Wash Buffer I	400 μL 800 μL
Wash Plate 2	2 mL Deepwell Plate with square wells for KingFisher™/PurePrep 96	Wash Buffer I	800 µL
Wash Plate 3	2 mL Deepwell Plate with square wells for KingFisher™/PurePrep 96	Wash Buffer II	800 µL
Elution Buffer	200 µL square-well Elution Plate for KingFisher™/PurePrep 96	Elution Buffer	100 μL
Tip plate	2 mL Deepwell Plate with square wells for KingFisher™/PurePrep 96	Empty, for loading Tip-Comb only	N/A

^{*}To be added after the initial lysis step (for all samples other than swab wash solutions or saliva)

Suitable plates can be purchased at magtivio (see section 2.2). We strongly recommend using only the plates which are intended to use on the KingFisher Flex $^{\text{TM}}$ System. Using unsuitable plates may result in extraction failure or instrument damage.



4.4.3 Detailed instructions

Follow exactly the instructions as given below. Label all plates thoroughly and unambiguously to avoid any misloading during the instrument loading procedure.

- 1. Pretreat samples according to section 4.1 . Add 200 μ L of the sample to each well of the "Sample Plate". If the volume is lower than 200 μ L, bring the volume up to 200 μ L with 1 x PBS buffer or molecular biology grade water.
- 2. Add **211 µL of Lysis Master Mix** to each well of the "Sample Plate". Mix by pipetting up and down until a homogeneous mixture is visible (typically 3 4 times). Incubate on a suitable plate shaker for 10 min with shaking at 1000 rpm. Continue with preparing the remaining plates before continuing with the sample plate.
- 3. Prepare "Wash Plate 1" and "Wash Plate 2" with **Wash Buffer I.** Add **800 µL Wash Buffer I** to each well of the corresponding deep-well plates.
- 4. Prepare "Wash Plate 3" with **Wash Buffer II.** Add **800 μL Wash Buffer II** to each well of the corresponding deep-well plate.
- 5. Prepare "Elution Plate" with **Elution Buffer.** Add **100 µL Elution Buffer** to each well of the corresponding square-well elution plate.
- 6. Add 20 µL of MagSi-PA VII beads to each well of the "Sample Plate".
- 7. Add 400 µL of Binding Buffer U1 to each well of the "Sample Plate".
- 8. Switch on the KingFisher[™] Flex magnetic particle processor and select the protocol from the user defined protocols
- 9. Start the protocol.
- 10. Load the plates to the instrument, following the instructions on the instrument display. Order of plates start with the tip plate and ends with the sample plate. The purification process starts immediately after loading the sample plate to the instrument.
 - Make sure that the plates are loaded in the correct orientation (especially when using partially filled plates). Place the AI well of each plate to the AI mark on the instruments turntable.
- 11. At the end of the method remove all plates from the instrument. Follow the information on the instrument display.



5. Troubleshooting

Problem	Possible causes	Comments and suggestions
	Insufficient sample lysis	- Optimize sample pre-treatment, make sure that Lysis Master Mix includes Proteinase K
Low nucleic acid yield	Inefficient binding to the magnetic particles	- Use correct amount of all reagents - Increase mixing steps incubation time for binding step - Mix sample during lysis / binding incubation
	Insufficient washing procedure	- Make sure that beads are completely resuspended in the washing steps.
	Incomplete elution	- Drying of Wash Buffer II may have been incomplete - Completely resuspend the beads in the elution step.
	Ethanol in the eluted DNA	- Increase the drying time to 15 minutes
Problems in downstream	Salt in the eluate	- Make sure that all supernatants are properly removed. - Avoid carry-over of Lysis Master Mix, Binding Buffer U1 or Wash Buffers to the eluate.
applications / contamination in DNA sample	Magnetic beads remaining in the eluate	- Place the tubes with eluates in the magnetic separator again, and transfer the supernatant to a new container. High amounts of co-purified genomic DNA (e.g. for cell and tissue samples) may cause high viscosity of the eluate and force incomplete bead separation in the elution step. Use higher volume of elution buffer and/or reduce sample input.



6. Bulk packages

6.1 Package contents

	5K preps MDKT0021005K	25K preps MDKT0021025K
Lysis Buffer PA1	1x1L	1 x 5 L in jerrycan
Binding Buffer U1	2x1L	2 x 5 L in jerrycan
Wash Buffer I	8 x 1 L	8 x 5 L in jerrycan
Wash Buffer II	4x1L	4 x 5 L in jerrycan
Elution Buffer	1x1L	1 x 5 L in jerrycan
Proteinase K	5 x 200 mg (for 5 x 11 mL working solution)	5 x 1000 mg (for 5 x 55 mL working solution)
Poly-A-RNA	15 mg (for 6 mL working solution)	3 x 25 mg (for 3 x 10 mL working solution)
Poly-A-RNA Buffer	20 mL	3 x 20 mL
MagSi-PA VII	100 mL	5 x 100 mL
Dispensing taps for jerrycans	-	5 pcs



6.2 Preparation and use of bulk components

· Reconstitute Proteinase K

MDKT0021005K: Add 11 mL of molecular biology grade water to each bottle of Proteinase K and vortex to dissolve. For aliquotation per 96 samples, make aliquots of 1.05 mL and store solutions at -20°C. Avoid repeated freezing and thawing. When stored accordingly, solutions are stable for at least 3 months.

MDKT0021025K: Add 55 mL of molecular biology grade water to each bottle of Proteinase K and vortex to dissolve. For aliquotation per 96 samples, make aliquots of 1.05 mL and store solutions at -20°C. Avoid repeated freezing and thawing. When stored accordingly, solutions are stable for at least 3 months.

Reconstitute Poly-A-RNA

MDKT0021005K: Add **6 mL of Poly-A-RNA Buffer** to the vial of **Poly-A-RNA (15 mg)** and vortex to dissolve. For aliquotation per 96 samples, make aliquots of 110 μ L and store solutions at -20°C. When stored accordingly, solutions are stable for at least 3 months.

• MDKT0021025K: Add **10 mL of Poly-A-RNA Buffer** to each vial of **Poly-A-RNA (25 mg)** and vortex to dissolve. For aliquotation per 96 samples, make aliquots of 110 μL and store solutions at -20°C. When stored accordingly, solutions are stable for at least 3 months.

Use of buffer provided in 5 L jerrycans

The extraction buffers included in MDKT0021025K are provided in 5 L jerrycans. A set of 5 dispensing taps to place on the jerrycans is included with each package. This allows transfer to a container of preference. More details are provided in **Technical Note (TN 12 Buffer dispensing from jerrycans)**, available on request.



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