Instructions for Use (Handbook)

MagPurix® Total RNA Extraction Kit

Catalog No.: 311K011A, 311K013A, 311K014A
Manual No.: IFU-MP02-311K01
Version: 3.7

Σ 48

CE IVD

For *in vitro* diagnostic use

EU REP

Obelis s.a.
Bd Général Wahis 53
1030 Brussels Belgium
Tel: +(32) 2 732-59-54
Fax: +(32) 2 732-60-03
mail@obelis.net

ZINEXTS LIFE SCIENCE CORP.
16F, No. 93, Sec. 1, Xintai 5th Rd.,
Xizhi Dist., New Taipei City 221416,
Taiwan (R.O.C.)

Read and follow these Instructions for Use prior to using this product. The latest revision of this document can be found at www.zinexts.com

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Intended Use

The MagPurix® Total RNA Extraction Kit provides a complete set of reagents and consumables for the automated purification of total RNA from mammalian whole blood, human and animal tissues, cultured cells, plant tissue and yeast, using the MagPurix® system.

The product is intended to be used by professional users, such as technicians and physicians who are trained in molecular biology techniques.

Introduction

Product Name	MagPurix® Total RNA Extraction Kit
Catalogue Number	311K011A, 311K013A, 311K014A
Product Overview	The MagPurix® Total RNA Extraction Kit is designed to extract total RNA from mammalian whole blood, human and animal tissues, cultured cells, plant tissue and yeast using MagPurix® series automated instruments. The kit utilizes unique magnetic ZiBeads® technology, which achieves consistent and high product yield and reproducible results. The final product is suitable for a wide range of molecular biology applications, such as sequencing, genotyping, qPCR, ddPCR and NGS assays.
Applicable Instruments Model	All MagPurix® Instruments
Display Protocol Name on the Instrument	2003 VIRAL (For MagPurix® 12/24)
	Total RNA (For MagPurix® EVO)
	Total RNA TZ (For MagPurix® EVO)
	Total_RNA_Regular (For MagPurix® N.E.O.)
	Total RNA_TR (For MagPurix® N.E.O.)
Applicable Instrument Firmware	Please check and download the latest firmware from www.zinexts.com

Kit Contents and Storage

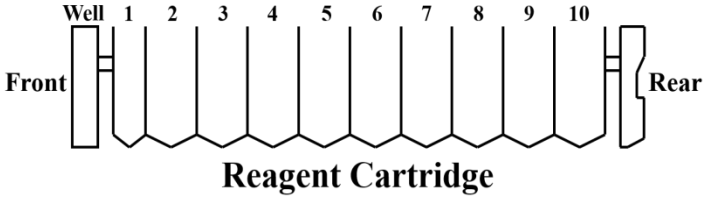
Shipping and Storage	The kit is shipped at room temperature. Upon receipt, store the kit at room temperature. All kit components are stable when stored properly until the expiration date shown on the kit box.
Kit Content	The components supplied in the kit are listed below. Sufficient reagents are supplied to perform 48 purifications.

Contents	Amount
1 Reagent Cartridge	8 pcs
2 Reaction Chamber (For MagPurix® 12/24, EVO)	8 pcs
3 Tip Holder (For MagPurix® 12/24, EVO)	8 pcs
4 Piercing Pin	50 pcs
5 Filter Tip	50 pcs
6 Sample Tube (2 mL)	50 pcs
7 Elution Tube (1.5 mL)	50 pcs
8 Process Rack (For MagPurix® N.E.O. only)	48 pcs
Filter Column	50 pcs
Collection Tube	50 pcs
RLD Buffer (25 mL)	1 pc
BL2 Buffer (25 mL)	1 pc
LA1 Buffer (25 mL)	1 pc
Barcode Sticker (For MagPurix® EVO, N.E.O.)	50 pcs

Reagent Cartridge Contents

Each Reagent Cartridge has 10 positions with 10 sealed wells.
Positions 1–10 contain the reagents required for this protocol.

Reagent	Well No.
Proteinase K	1
Lysis Buffer 26	2
Binding Buffer 1	3
Magnetic Bead Solution	4
Washing Buffer 1F	5
Washing Buffer A	6
Washing Buffer B	7
RNase-free water	8
RNase-free water	9
Empty	10



Reagent Cartridge

Materials Required but not Provided

The following general laboratory equipment and consumables are required to perform the extraction. All laboratory equipment should be installed, calibrated, operated, and maintained according to the manufacturer's recommendations. The following table lists the required equipment and consumables.

For all purification procedures:
1. MagPurix® / MagPurix® EVO series instrument/ MagPurix® N.E.O. instrument
2. 1.5 or 2.0 mL microcentrifuge tubes
3. Pipettes and filter tips
4. 10x RBC lysis buffer
5. Zinexts TR Buffer (Cat# 411B14BA) or other TRIzol reagent
6. BCP (1-Bromo-3-chloropropane) or chloroform
7. 15 mL centrifuge tube
Optional:
1. Plastic consumables
2. DNase I (to minimize DNA content)
3. RNAlater™
4. RNaseZap™

Warnings and Precautions

For *in vitro* diagnostic use only. Read all the instructions carefully before using the kit. Use of this product should be limited to trained personnel in the techniques of nucleic acid purification. Strict compliance with the user manual is required for optimal results. Attention should be paid to expiration dates printed on the box and labels of all components. Do not use a kit after its expiration date.

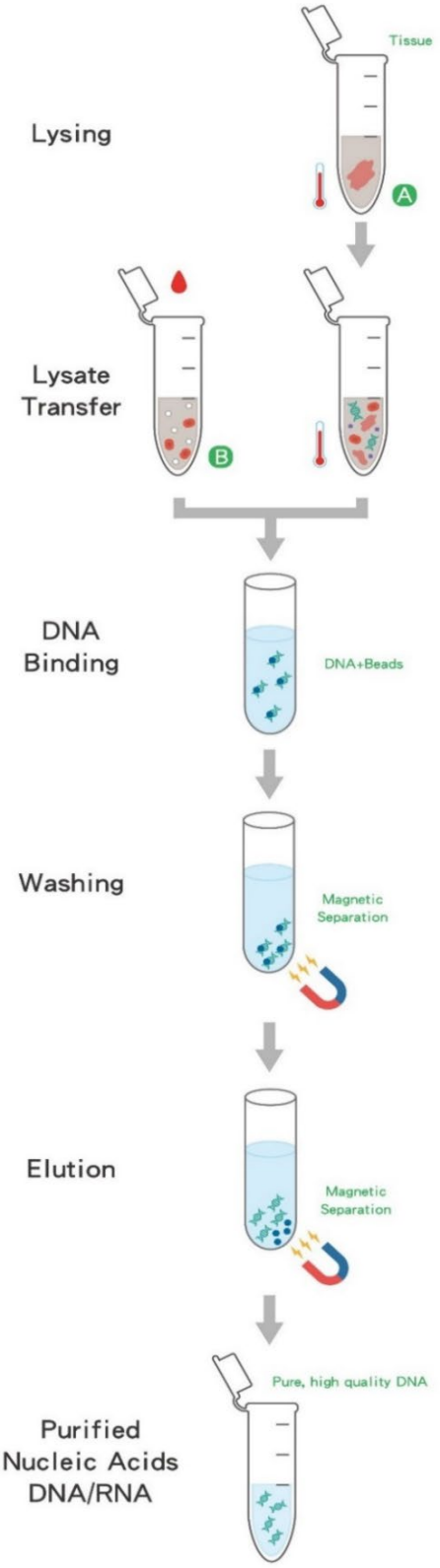
When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the applicable Safety Data Sheets (SDS). Authorized partners can access these documents through the Zinexts Partner Portal (login required). Product end users who do not have Partner Portal access should contact their local distributor to obtain the relevant SDS.

Please report any serious incident occurred in relation to the device to your local representative/ agent or the manufacturer, and to the competent authority of your country/state.



CAUTION: DO NOT add bleach or acidic solutions directly to the sample preparation waste.

Purification Principle



Ⓐ Perform certain pretreatment process before extraction.
Ⓑ Transfer sample to extraction directly.

Things to Do Before Starting

Sample Preparation

The purification procedure is optimized for the use of appropriate samples as below table.

Mammalian whole blood	**Method 1** a. Prepare fresh 1X RBC lysis buffer. b. Add ice-cold RBC lysis buffer to blood sample in 4:1 ratio. (Blood sample volume: 0.1~0.5 mL) c. Invert 10 times, incubate at room temperature for 15 minutes. d. Centrifuge at 600 x *g*, 10 minutes, 4°C. e. Remove supernatant. f. Resuspend pellet in 1 mL 1X RBC lysis buffer to wash again. g. Incubate at room temperature for 3 minutes. h. Centrifuge at 1,000-1,100 x g, 2 minutes. i. Discard supernatant. j. Resuspend the pellet with 400 µL 4°C RLD Buffer. k. Transfer 400 µL into each Sample Tube. **Note:** For MagPurix® 12 / 24 series' protocol selection in "2003 VIRAL", only select sample volume range within 100 – 400 µL, and not exceed over 400 µL. **Method 2** (**For MagPurix EVO series and MagPurix N.E.O.**) a. Prepare fresh 1X RBC lysis buffer. b. Add ice-cold 1X RBC lysis buffer to blood sample in 4:1 ratio. (Blood sample volume: 0.2~3 mL) c. Invert 5 times, incubate at room temperature for 15 minutes. d. Centrifuge at 600 x g, 10 minutes, 4°C. e. Remove supernatant. f. Resuspend the pellet in 4°C 1X RBC lysis buffer (equal to the volume of blood). g. Incubate at room temperature for 3 minutes. h. Centrifuge at 1,000~1,100 x g, 2 minutes, 4°C. i. Remove supernatant. j. Dissolve the pellet in 750 µL TRB Buffer by vortexing until the mixture is homogeneous. k. Transfer the mixture to a new 1.5-mL tube. l. Add 100 µL BCP (or 200 µL chloroform) to the mixture and vortex until the color becomes matte. m. Centrifuge at 12,000 x g, 15 minutes, 4°C. n. After centrifugation, three phases will be formed. o. Transfer the top aqueous phase to Sample Tube. p. Choose protocol: **Total RNA TZ** (EVO) or **Total RNA_TR** (N.E.O.)
Human and animal tissue	a. Add 220-440 µL 4°C BL2 Buffer to tissue; make sure the sample is a. completely immersed in the buffer. b. Homogenize and lyse the tissue by a homogenizer or cutter. c. Spin the lysate to collect all material at the bottom. d. Pre-filter the digested tissue lysate using a Filter Column to remove residual debris and mucus.

	e. Centrifuge at 1,000 x *g* for 5 minutes at 4°C. f. Transfer 200-400 µL into each Sample Tube.
Suspension culture/ Monolayer culture	a. Harvest cell culture. Please refer to Table 2 for the suggested starting sample volume. b. Centrifuge at 300x *g* for 5 minutes at 4°C. c. Remove supernatant completely. d. Resuspend cell pellet in 200~400 µL 4°C BL2 Buffer. e. Vortex for 10 seconds. f. Transfer 200~400 µL into each Sample Tube.
Plant tissue	a. Add 220-440 µL 4°C LA1 Buffer to the sample; make sure the sample is completely immersed in the buffer. b. Homogenize the tissue by a homogenizer. c. Pre-filter the digested lysate using a Filter Column to remove residual debris. d. Centrifuge at 1,000 x *g* for 5 minutes at 4°C. e. Transfer 200-400 µL into each Sample Tube.
Yeast	a. Centrifuge the culture (yeast liquid culture in Abs(A600) = 0.4 – 0.6 or colonies suspension in sterile water) at 300 x g for 5 minutes. b. Remove the supernatant. c. Resuspend the pellet in 220-440 µL 4°C LA1 Buffer at room temperature for 5 minutes. d. Transfer 200-400 µL sample into each Sample Tube.

Note:

Wear clean gloves. Keep the working area, pipettes and reagents free of virus, bacteria and nuclease contamination before using the RNase-free filter tip. Using RNaseZap™ to clean the surface of bench, equipment and pipettes is one of the easiest ways to remove RNase contaminations in the working area.

Using RNA stabilization reagent (e.g., RNAlater™) to treat samples is one of the best ways to protect the RNA if the sample cannot be processed in a RNase-free working area. If DNA-free RNA is needed, DNase I can be added to the eluate.

Three kinds of pretreament buffers (RLD, BL2 and LA1) are supplied in the kit for treating different tissue types. Pre-cool the buffers at 4°C before use and do not keep the buffers at 4°C longer than one hour.

Table 1 – Preparation of buffer reagents

Reagent	**Description**	**Preparation**
β-Mercaptoethanol (β-ME)	β-ME reduces disulfide bonds and irreversibly denatures the RNase, eliminating RNase released during cell lysis.	Add 10 µL β-ME/1 mL sample buffer. It can be stored at 4°C for 4 months, at room temperature for 1 month. **Note**: Dispense the β-ME in a fume hood and wear appropriate protective clothing.
Red blood cells lysis buffer (RBC lysis buffer)	Lyse erythrocytes from whole blood (Erythrocyte (RBC) lysis procedure). Alternative commercial RBC lysis buffers are acceptable; an independent user validation is	10x RBC lysis buffer (100 mL): 8.29 g NH_4Cl (1.5 M) 1 g $KHCO_3$ (100 mM) 0.0372 g Na_2EDTA (1 mM) Adjust pH7.2-7.4 by HCl Add distilled water to 100 mL

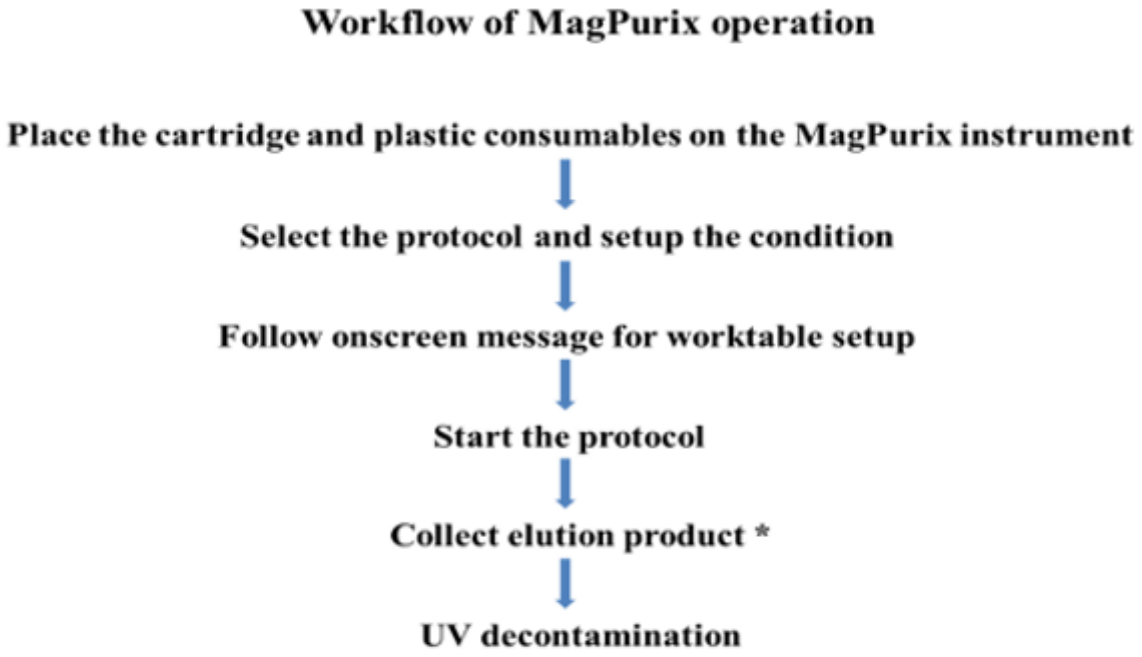
	required to ensure optimal performance.	Perform filtration using a 0.2 µm filter, and store for max. 6 months at 4°C Dilute to 1/10 freshly before use.
DNase	To eliminate DNA contamination	Novagen RNase-free DNase I (69182-3CN)
10X DNase buffer	To eliminate DNA contamination	0.5 M Tris-HCl 25 mM $MgCl_2$ 5 mM $CaCl_2$

Table 2 – Recommendation for starting material

Sample type	Starting material per sample
Mammalian whole blood	**Note**: 1. Use the whole blood samples for isolation (within 4 hours, on ice). Do not use frozen blood. The blood samples should be collected in the presence of an anticoagulant, preferably EDTA, although other anticoagulants such as citrate, heparin*, or ACD (acid citrate dextrose) can also be used. *Eluates from heparinized blood may cause PCR inhibition in some cases. 2. For optimal results, blood samples should be processed within a few hours of collection and kept at 4°C. The longer the storage time before extraction, the smaller the amount of total RNA. 3. Perform erythrocyte (RBC) lysis procedure before the extraction. 4. If the whole blood samples have extremely high WBC counts (more than 10,000 cells/µL), or concentrated PBMCs (Peripheral Blood Mononucleated Cells) are used, the input volume for extraction is recommended to be decreased (total WBC count should not exceed 10^6 cells/100 µL sample input).
Animal tissue	**Note**: 1. To prevent degradation by intracellular RNase, it is important that tissues are either flash-frozen in liquid nitrogen or stored at -70°C, or processed immediately following excision. 2. Using RNA stabilization reagent (e.g., RNAlater™ or BL2 Buffer) to treat tissue is another option to protect the RNA if the sample cannot be frozen immediately. Frozen tissue should not be thawed during handling (e.g., weighing). Keeping sample on ice during cutting or homogenization with 4°C BL2 Buffer is recommended. 3. After homogenization, use Filter Column to remove the insoluble and viscous materials of the lysates.

Sample type	Starting material per sample
Cultured cell	**Note**: 1. Cells or isolated blood cells (up to 10^6) can be collected as pellets and either flash-frozen in liquid nitrogen and stored at -70°C, or processed immediately. Add 4°C BL2 Buffer to resuspend pellet for extraction. 2. Alternatively, samples can be stored at -70°C in BL2 Buffer after disruption and homogenization. Samples frozen in this way are stable for months.
Plant tissue	**Note**: 1. Grind plant tissue material in liquid nitrogen, and collect up to 100 mg of plant tissue powder then add 4°C LA1 Buffer to homogenizer. 2. After adding LA1 Buffer, samples are placed into homogenizer for homogenization. 3. After homogenization, use Filter Column to remove the insoluble and viscous materials of the lysates.

Procedure of MagPurix System



* Download the run record (MagPurix EVO & MagPurix N.E.O. series)

Purification Protocol - MagPurix® series

1	Turn on the Instrument	a. Turn on the power switch and wait for the screen to turn on.
2	Load new Consumable(s) and Cartridge(s)	a. Open the door and remove the Sample Rack from the instrument. b. Load 1 Reagent Cartridge, and all plastic disposables (2 Reaction Chamber, 3 Tip Holder, 4 Piercing Pins, 5 Filter Tips and other components presented in the kit intended to use). Place 6 Sample Tubes and 7 Elution Tubes into the Sample Rack.
3	Load the Samples	a. Transfer appropriate volume of sample. b. Put the Sample Rack back into the instrument and close the door.
4	Program Set up	a. Scan the protocol barcodes to select the purification protocol, sample volume and elution volume.
5	Start Extraction	a. Follow the instructions displayed on the screen to double-check the operating steps being completed before program running. b. Press "**ENTER**" to start the experiment. Instrument will run the protocol program automatically until the whole process is completed. c. At the end of the run (approximately 12 series 45-55 minutes, 24 series 45-60 minutes), instrument alarms briefly.
6	Collect the Elution Tubes	a. Open the instrument door. b. Collect the Elution Tubes containing the purified nucleic acids. c. The purified nucleic acids are ready for immediate use. Store the purified nucleic acids immediately at -70°C before performing downstream analysis. d. Discard the used cartridges and all plastic consumables into biohazard waste. *Do not reuse the cartridges. e. If you are not using the instrument immediately, place the Sample Rack back to the workplace, close the instrument door and press "Start" button for 2 seconds to enter sleep mode. If the instrument will not be used in an extended period of time, please turn off the power switch.

Purification Protocol - MagPurix® EVO series

1	Turn on the Instrument	a. Turn on the power switch and wait for the screen to turn on. a. Login the instrument and enter the Home Page.
2	Load new Consumable(s) and Cartridge(s)	a. Open the door and remove the Sample Rack from the instrument. b. Open the Tip-Holder Lid. c. Load 1 Reagent Cartridge and all plastic disposables (2 Reaction Chamber, 3 Tip Holder, 4 Piercing Pins, 5 Filter Tips and other components presented in the kit intended to use). d. Close the Tip-Holder Lid. e. Paste the Barcode Stickers on Elution Tubes. a. Place 6 Sample Tubes and 7 Elution Tubes into the Sample Rack.
3	Load the Samples	a. Transfer appropriate volume of sample into each Sample Tube on the Sample Rack. a. Put the Sample Rack back into the instrument and close the door.

4	Program Set up	a. Select the appropriate protocol program on the instrument. Press **NEXT**. b. Select the appropriate Sample Volume and Elution Volume and press **NEXT**. c. Press the number button to select the right Sample Numbers. d. Scan/Edit each primary Sample ID directly. After finished, press **NEXT**. e. Scan/Edit each Elution Tube ID directly. After finished, press **NEXT**. f. Scan Reagent Cartridge Barcode. Press **NEXT**. *If the cartridge is expired, the next step cannot be performed. a. Follow the instructions on the screen to double-check the operating steps being completed before running the program. Press **NEXT**.
5	Start Extraction	a. Check "**PROGRAM CONFIRMATION**" on the screen. b. Press "**START**" to start the experiment. Instrument will run the protocol program automatically until the whole process is completed. c. At the end of the run (approximately 45-50 minutes), instrument alarms briefly and the screen indicates "**PROGRAM FINISH**". d. If you want to perform the same protocol, press "**RERUN**" to perform the same experiment. If you do not need to re-run the experiment, press the function button "**HOME**" to exit the experiment mode.
6	Collect the Elution Tubes	a. Open the instrument door. b. Collect the Elution Tubes containing the purified nucleic acids. c. The purified nucleic acids are ready for immediate use. Store the purified nucleic acids at 4°C (short-term, less than 10 days) or aliquot and store at -70°C (long-term) before performing downstream analysis. d. Discard the used cartridges and all plastic consumables into biohazard waste. *Do not reuse the cartridges. e. If you are not using the instrument immediately, please put the Sample Rack back into the instrument, close the instrument door, and press the "**POWER**" function button to enter sleep mode. If the instrument will not be used in an extended period of time, please turn off the power switch.

Purification Protocol - MagPurix® N.E.O.

1	Turn on the Instrument	a. Turn on the power switch and wait for the screen to turn on. b. Scan the user personal barcode to Login the instrument and enter the Home Page.
2	Program set up	a. Scan the barcode of the MagPurix® Extraction kit. For optimum results, always use a kit within the expiry time mentioned on the kit box. b. Use the +/- buttons or manually enter the input total volume of sample after facultative pretreatment and the elution volume required. Press . **ATTENTION: the drawer will open immediately, keep clear from the drawer opening area.** c. Look at the 2 pop-up animations windows that teach how to 1- Select sample position, 2- scan sample IDs, press "**NEXT".** d. Select whether your samples belong to a "working list". If yes,

			MagPurix® N.E.O. will recognize the samples by connecting to your organization LIS network.
		e.	Select a sample position between 1-12, scan all sample tube barcodes and elution tube barcodes. Press ▶ when all samples are edited.
3	Load new Consumable(s) and Cartridge(s)	a.	Verify that all samples are all set properly, place onto the worktable all consumables, 1 Reagent Cartridge and all plastic disposables (4 Piercing Pins, 5 Filter Tips, 8 Process Rack and other components presented in the kit intended to use).
4	Load the Samples	a.	Transfer appropriate volume of sample into each Sample Tube on the Sample Rack.
		b.	Place the 6 Sample Tubes and 7 Elution Tubes on the MagPurix® N.E.O. Sample Rack, following the same order as set on the MagPurix® N.E.O. system.
		c.	Press “Close drawer”, the drawer will close automatically.
5	Start Extraction	a.	Press ▶ after the drawer has closed **NOTE:** It is possible to Pause ⏸ the extraction process. Press ▶ to resume or ■ to abort the extraction process.
6	Collect the Elution Tubes	a.	When the Extraction process is finalized (approximately 45-50 minutes) the instrument gives a brief alarm signal, and the MagPurix® N.E.O. will display the extraction process report.
		b.	Press “Export” to export the Data report to an USB drive. Data reports are stored in Toolbox>data archive
		c.	Press ▶ to terminate the experiment. **ATTENTION: the drawer will open immediately, keep clear from the drawer opening area.**
		d.	Collect the Elution Tubes containing the purified nucleic acids.
		e.	The purified nucleic acids are ready for immediate use. Store the purified nucleic acids at 4°C (short-term, less than 10 days) or aliquot and store at -70°C (long-term) before performing downstream analysis.
		f.	Discard the used cartridges and all plastic consumables into biohazard waste. *Do not reuse the cartridges.
		g.	Press **“Close drawer”** then ▶, the MagPurix® N.E.O. system will automatically redirect to the UV decontamination page.
		h.	Press **“UV Decontamination”**, and select the desired time using +/- buttons. Press **“Start”.** **NOTE:** It is possible to Pause ⏸ the decontamination process. Press ▶ to resume or ■ to abort the decontamination process.
		i.	Press **“OK”** when the decontamination process is finished. MagPurix® N.E.O. will redirect to the **LOGIN** page.

Troubleshooting

***This table is helpful for solving common problems. If you need other technical support, please contact Zinexts team (sales@zinexts.com) or your distributor.**

Problem	Possible Cause	Comments and suggestions
Poor RNA quality or yield	Deterioration or contamination of reagents.	Please ensure that the kit reagents are still within the effective shelf-life period before use. Discard any kit reagent that shows discoloration or evidence of microbial contamination.
	Kit stored under non-optimal conditions.	Store kit at 15 to 25°C at all time after arrival. If either reagent or buffer precipitate upon shipping in cold weather or during long-term storage, dissolve precipitates by gently warming and stirring the solution. Please do not freeze the Reagent Cartridges.
	Insufficient sample input.	RNA yield depends on the sample type and the number of nucleated cells in the sample. Please proportionally adjust the total input amount of sample to increase the RNA yield.
	Too much of elution buffer was used.	The elution volume can be reduced proportionally.
	The eluate of final product(s) is not enough.	Please collect detailed information of the issue and provide it to your Support Representative/Technical Support as soon as possible.
	Kit stored under non-optimal conditions.	Store kit at 15 to 25°C at all times upon arrival
	RNA degradation before extraction.	1. Before extraction, protecting the sample from RNase digestion is very important. Use RNA-later to protect sample is recommended. 2. Always use fresh sample and keep it in low temperature before extraction. If possible, immerse sample in RNA-later in 4°C for 1 to 2 hours. Store sample in -70°C if not isolating RNA immediately.
	Reagents and samples not completely mixed.	Always mix the Sample Tube well after addition of each reagent.
Clogging issue	Too much sample material was used.	Decrease the input amount of sample material or dilute your sample.

Problem	Possible Cause	Comments and suggestions
No results in downstream analysis	No signal/The PCR was inhibited.	Use the appropriate controls for analysis. Check the positive control, negative control, water (NTC) and internal control to clarify the possible causes.
Low RNA yield	High levels of RNase activity	Be careful to create an RNase-free working environment
		Process starting material immediately or store it at -80°C until it can be processed.
		Use eluted RNA directly in downstream procedures or store it immediately at -80°C.
Instrument malfunction/abnormal sound	Abnormal consumables: 1. Deformed Filter Tips 2. Deformed Reaction Chamber 3. Deformed Tip Holder	Please replace the batch with normal consumables.
	Abnormal action of instrument: 1. Inaccurate correction value 2. Spare parts or components damaged	Please collect detailed information of issue (videos and pictures) and provide it to your Support Representative/Technical Support as soon as possible to calibrate or replace any other damaged or worn parts.

Related Products

Product Name	Cat. no.
MagPurix® Blood DNA Extraction Kit 200 (48) ST	311A011A
MagPurix® Blood DNA Extraction Kit 200 (48) DP	311A013A
MagPurix® Blood DNA Extraction Kit 200 (48) N.E.O.	311A014A
MagPurix® Blood DNA Extraction Kit 1200 (48) ST	311A021A
MagPurix® Blood DNA Extraction Kit 1200 (48) DP	311A023A
MagPurix® Blood DNA Extraction Kit 1200 (48) N.E.O.	311A024A
MagPurix® Viral Nucleic Acid Extraction Kit (48) ST	311B011A
MagPurix® Viral Nucleic Acid Extraction Kit (48) DP	311B013A
MagPurix® Viral Nucleic Acid Extraction Kit (48) N.E.O.	311B014A
MagPurix® Tissue DNA Extraction Kit (48) ST	311D011A
MagPurix® Tissue DNA Extraction Kit (48) DP	311D013A
MagPurix® Tissue DNA Extraction Kit (48) N.E.O.	311D014A
MagPurix® Cultured Cell DNA Extraction Kit (48) ST	311E011A
MagPurix® Cultured Cell DNA Extraction Kit (48) DP	311E013A
MagPurix® Bacterial DNA Extraction Kit (48) ST	311C011A
MagPurix® Bacterial DNA Extraction Kit (48) DP	311C013A
MagPurix® Bacterial DNA Extraction Kit (48) N.E.O.	311C014A
MagPurix® HPV DNA Extraction Kit for Swab Samples (48)	311F011A
MagPurix® HPV DNA Extraction Kit for Swab Samples (48) DP	311F013A
MagPurix® HPV DNA Extraction Kit for Swab Samples (48) N.E.O.	311F014A
MagPurix® TB DNA Extraction Kit (48) ST	311G011A
MagPurix® TB DNA Extraction Kit (48) DP	311G013A
MagPurix® TB DNA Extraction Kit (48) N.E.O.	311G014A
MagPurix® FFPE DNA Extraction Kit (48) ST	311H011A
MagPurix® FFPE DNA Extraction Kit (48) DP	311H013A
MagPurix® FFPE DNA Extraction Kit (48) N.E.O.	311H014A
MagPurix® Forensic DNA Extraction Kit (48) ST	311I011A
MagPurix® Forensic DNA Extraction Kit (48) DP	311I013A
MagPurix® Forensic DNA Extraction Kit (48) N.E.O.	311I014A
MagPurix® Viral/Pathogen Nucleic Acids Extraction Kit A (48) ST	311B031A
MagPurix® Viral/Pathogen Nucleic Acids Extraction Kit A (48) DP	311B033A
MagPurix® Viral/Pathogen Nucleic Acids Extraction Kit A (48) N.E.O.	311B034A
MagPurix® Viral/Pathogen Nucleic Acids Extraction Kit B (48) ST	311B041A
MagPurix® Viral/Pathogen Nucleic Acids Extraction Kit B (48) DP	311B043A
MagPurix® Viral/Pathogen Nucleic Acids Extraction Kit B (48) N.E.O.	311B044A
MagPurix® Viral RNA Extraction Kit (48) ST	311B051A
MagPurix® Viral RNA Extraction Kit (48) DP	311B053A
MagPurix® Viral RNA Extraction Kit (48) N.E.O.	311B054A
MagPurix® Plant DNA Extraction Kit (48) ST	311J011A
MagPurix® Plant DNA Extraction Kit (48) DP	311J013A
MagPurix® Plant DNA Extraction Kit (48) N.E.O.	311J014A
MagPurix® Total RNA Extraction Kit (48) ST	311K011A
MagPurix® Total RNA Extraction Kit (48) DP	311K013A

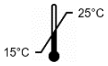
MagPurix® Total RNA Extraction Kit (48) N.E.O.	311K014A
MagPurix® Viral Nucleic Acid Extraction Kit LV (48) ST	311B021A
MagPurix® Viral Nucleic Acid Extraction Kit LV (48) DP	311B023A
MagPurix® Viral Nucleic Acid Extraction Kit LV (48) N.E.O.	311B024A
MagPurix® CFC DNA Extraction Kit (48) ST	311L011A
MagPurix® CFC DNA Extraction Kit (48) DP	311L013A
MagPurix® CFC DNA Extraction Kit (48) N.E.O.	311L014A
MagPurix® Coronavirus RNA Extraction Kit (48) ST	311B061A
MagPurix® Coronavirus RNA Extraction Kit (48) DP	311B063A
MagPurix® Urine cfDNA Extraction Kit (48) ST	311L041A
MagPurix® Urine cfDNA Extraction Kit (48) DP	311L043A
MagPurix® Plasma cfDNA Extraction Kit (48) ST	311L051A
MagPurix® Plasma cfDNA Extraction Kit (48) DP	311L053A

References

- Tan SC *et al.* J. Biomed. Biotechnol. (2009)
- Ali N *et al.* Biomed. Res. Int. (2017)
- Komal S *et al*. IJRAR (2023)
- Prins T *et al.* EU JRC Technical Report (2024)

Symbols

The following symbols are used on labels and in Instructions for Use (IFU), in compliance with EN ISO 15223-1 standard.

Symbol	Explanation
	CE mark
	For In Vitro Diagnostic Use
	Catalogue number
	Lot/Batch number
	Sufficient for [n] samples
	Instructions for Use
	Expiry date
	Storage temperature (15°C - 25°C)
	For single use only
	Manufacturer
	European Authorized Representative
	Caution

Limited Product Warranty

Zinexts Life Science Corp. is committed to provide customers with high-quality products and services. Our goal is to ensure that every customer is 100% satisfied with our products and services. If you have any question or concerns, contact our Technical Support Representatives.

Zinexts Life Science Corp. guarantees the performance of all products according to the specifications stated in our product literature. The purchasers/users must determine the suitability of the product for their particular use. We reserve the right to change, alter, or modify any product to enhance its performance and design.

This warranty limits the liability of Zinexts Life Science Corp. to only the cost of the product. No warranty is granted for products beyond their listed expiration date. No warranty is applicable unless all product components are stored and used in accordance with instructions.

Revision History

Version	Date	Description
3.7	8 Nov. 2026	1. Update the description of RBC lysis buffer.