



Autopure 32 MgPure Viral RNA Purification Kit

Simplified

For Allsheng Auto-Pure 32
MR6532.A32S V210610

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Safety Information

Strictly follow CDC or Depart of Health guidance for handling infectious samples. Wear appropriate personal protective equipment (e.g. gowns, gloves, eye protection) when working with clinical specimens. Specimen processing should be performed in a certified biological safety cabinet accordingly following biosafety guidelines for the specific virus. Buffer MYE and Buffer RB contains chaotropic salts, which may form reactive compounds when combines with bleach. Do not add bleach or acidic solutions directly to the preparation waste, wear gloves and protective eyewear when handling.



Introduction

The Autopure 32 MgPure™ Viral RNA purification kit provides an easy and reliable method for isolating total viral RNA from plasma, serum, nasopharyngeal or oropharyngeal aspirates or washes, nasopharyngeal or oropharyngeal swabs, bronchoalveolar lavage, tracheal aspirates, and sputum. This procedure has been tested for isolating nucleic acids from COVID-19, Hepatitis A, Hepatitis C and HIV. The isolated RNA can be used for PCR, qRT-PCR and other downstream applications. This protocol is validated on Allsheng auto pure 32 and KingFisher plex and can be adapted to major automation platforms such as Biomek FX, Biomek 3000, Hamilton Microlab STAR, Hamilton MagEx STARler and many others.

Catalog#	MR6532.A32S-00	MR6532.A32S-01	MR6532.A32S-02
Preps	6x16	40 x 16	100 x16
Proteinase K*	450 µL	7.5 mL	20 mL
MgPure Beads	6x16x100 µL	40x16x100 µL	100 x16x100 µL
Buffer MYE	6x16x600 µL	40x16x600 µL	100 x16x 600 µL
RNA Wash Buffer	6x16x 500 µL	40x16x 500 µL	100 x16x 500 µL
DEPC-Treated ddH ₂ O	6x16x 50 µL	40x16x 50 µL	100 x16x 50 µL
Magnetic tip combs	12	80	200
User Manual	1	1	1

Storage and Stability

Store all components at room temperature (15-25°C). All kit components are guaranteed for 1 year from the date of purchasing. For long term: store proteinase K at -20°C.



Before Starting

1. Allsheng Auto Pure 96: Turn on ultraviolet disinfection for 20 min before use.
2. Carefully peel off the sealing film of the Buffer MYE plate.
3. Optional: add 10 µL of proteinase K to each well of the Buffer MYE plate.

Note: Proteinase K is necessary for low viral titer samples.

4. Add 250 µL sample to each well of Buffer MYE plate.

Operation protocol

Table 1. 96-well plate setting

96-well plate No.	Board position	Sample / reagent	Vol. (µL)	Kit description	Note
Sample prep	1/7	Sample	250	Add by user	Ensure the total volume is ≤1000 µL
		Proteinase K	10		
		Buffer MYE	250	Added	
		Isopropanol	350	Added	
Beads	2/8	MgPure Beads	10	Added	
		Nuclease free water	90		
Wash 2	5/11	RNA Wash Buffer	500	Added	
Elution	6/12	DEPC-Treated ddH ₂ O	50	Added	Elution volume can be adjusted according to specific requirements

1. Start the instrument, place a magnetic tip comb to the instrument, and carefully peel off the sealing films of MgPure Bead Plate, RNA Wash Buffer plate and DEPC-H₂O plate. Put 96-well plates into the corresponding position in the instrument.
2. Use the program (table 2).
3. Collect RNAs after the program is completed: Take out the 96-well plates, and transfer the RNAs from column 6/12 into nuclease free tubes, and store at -80°C.



Table 2. Extraction procedures

step	name	Well position	Mix time (min)	Magnetize time (s)	Wait time (min)	Vol (µL)	Mix speed (1-10)	Tm (°C)	Mix position (0-100%)	Mix range (1-100%)	Magnetize position (0-100%)	Magnetize speed (1-10)
1	Binding1	1	5	0	0	860	2	OFF	0	80	0	1
2	Beads	2	1	45	0	100	1	OFF	0	80	0	1
3	Binding2	1	5	120	0	860	8	OFF	0	80	0	1
5	Wash	5	1	60	2	500	8	OFF	0	30	0	1
7	Elute	6	1	90	0	50	8	OFF	0	80	0	1
8	Drop	2	0.2	0	0	50	6	OFF	0	80	0	1

Note: Set to heat up and then action, cooling action synchronization; magnetize mode: magnetize in 4 stages; drying position: upper part of the kit.

Limited Use and Warranty

This product is warranted to perform as described in its labeling and in BIOMIGA's literature when used in accordance with instructions. No other warranties of any kind, express or implied, including, without limitation, implied warranties of merchantability or fitness for a particular purpose, are provided by BIOMIGA. BIOMIGA's sole obligation and purchaser's exclusive remedy for breach of this warranty shall be, at the option of BIOMIGA, to replace the products, BIOMIGA shall have no liability for any direct, indirect, consequential, or incidental damage arising out of the use, the results of use, or the inability to use it product.

For technical support or learn more product information, please contact us at 858-603-3219 or visit our website at www.biomiga.com.