Viral DNA/RNA Purification Kit (Beads)

(BW-MR6536-A32 and A96)

CE

IVD For In VitDiagnostic Use Only

Room 101, building 1, Fengshang zhihui Valley, 2636 yuhangtang Road, Yuhang District, Hangzhou City, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA.
http://www.beiwobiomedical.com/ Tel: +86-571-56391588

European Authorized Representative

EC REP

Company: SUNGO Europe B.V.

Address: Olympisch Stadion 24, 1076DE Amsterdam, Netherlands

BEIWO Viral DNA/RNA Purification Kit is designed for the extraction and purification of viral DNA (e.g. African swine fever virus (ASFV), hepatitis B virus (HBV), Herpes simplex virus (HSV), Human papilloma virus (HPV), etc.) or viral RNA (e.g. SARS-Cov-2, influenza virus, HIV, etc.) from serum, plasma, virus culture, swab sample, tissue homogenization solution, cerebrospinal fluid, bronchoalveolar lavage fluid and so on. MR6536-A32 is compatible with BEIWO BW Express 16, Allsheng Auto- Pure 32A, MR6536-A96 is compatible with Allsheng Auto-Pure 96, Hamilton, Beckman Biomek, Tecan, Thermo KingFisher other similar nucleic acid purification systems.

KIT CONTENTS

① BW-MR6536-A32

Catalog#	Well position	BW-MR6536-A32-10	BW-MR6536-A32-11	BW-MR6536-A32-12
Preps	-	1 x 32	10 x 32	20 x 32
Lysis Buffer A	**Column 1/7**	600 µL	600 µL	600 µL
Wash Buffer 1	**Column 3/9**	600 µL	600 µL	600 µL
Wash Buffer 2	**Column 4/10**	800 µL	800 µL	800 µL
Wash Buffer 3	**Column 5/11**	780 µL	780 µL	780 µL
MgPure Beads		20 µL	20 µL	20 µL
DEPC-Treated ddH_2O	**Column 6/12**	80 µL	80 µL	80 µL
8-strip Tip Comb	-	4	40	80

② **BW-MR6536-A96**

Catalog#	Plate position	BW-MR6536-A96-10	BW-MR6536-A96-11	BW-MR6536-A96-12
Preps	-	1 x 96	4 x 96	10 x 96
Lysis Buffer A	2	600 µL	600 µL	600 µL
Wash Buffer 1	3	600 uL	600 uL	600 uL
Wash Buffer 2	4	800 uL	800 uL	800 uL
Wash Buffer 3 / MgPure Beads	5	800 µL	800 µL	800 µL
DEPC-Treated ddH_2O	8	80 µL	80 µL	80 µL
96-Well Tip Comb	-	1	4	10

STORAGE

The kit should be stored dry and at room temperature (15~25°C). They can be stored for at least 12 months without showing any significant reduction in performance, capacity, or quality of separation.

EXPECTED USAGE

For nucleic acid extraction, enrichment, purification and other steps. The processed product is used for clinical in vitro detection.

BEFORE STARTING

- ☑ Operate in an environment with the appropriate biosafety laboratory level (e.g BSL-2 or higher level) and wear appropriate personal protective equipment (e.g. gowns, gloves, goggles) when working with clinical specimens.
- ☑ Lysis Buffer A contains chaotropic salts, which may form reactive compounds when combines with bleach. Do not add bleach or acidic solutions directly to the preparation waste.
- ☑ Buffer may form precipitates upon storage, dissolve precipitates at 37°C before use.
- ☑ Ultraviolet disinfection of the Purification Instrument prior to use is recommended.
- ☑ Materials not supplied: 1.5 mL RNase-free centrifuge tube.

SAFETY INFORMATION

- ☑ When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate material safety data sheets.
- ☑ The product should be used in strict accordance with the instructions. If it is not used in accordance with the regulations, it may cause pollution to the environment.

☑ Products are disposable, do not reuse, and the used product should be placed in the designated position in time.

☑ Exceeding the expiration date of this product, the performance of the product may be reduced, so it should be used within the expiration date.

☑ This kit can only be used for in vitro experiments, and not for clinical, therapeutic and in vivo experiments in animals. If it is not used in accordance with the regulations, the company will not be responsible for the consequences arising therefrom.

PROCEDURE（BW-MR6536-A32）

1. Take out a pre-loaded 96-well plate and gently shake it (if necessary), let the reagent or magnetic beads assemble at the bottom of the plate. **NOTE:** If there is any precipitation in **Column 1/7**, incubate the plate at 37°C to dissolve the precipitation before use.
2. In a biosafety cabinet, carefully remove the sealing foil of the 96-well plate. Aspirate **200 ~ 300 μL samples** (serum, plasma, swab sample, etc.) into the deep wells in **Column 1/7**.
3. Put the plate in an Allsheng Auto-Pure 32A Nucleic Acid Purification System.
4. Install **two 8-strip Tip Combs** for each plate.
5. Run the program described in **Table 1**.
6. After the program is completed, take out the 96-well plate and aspirate the **viral DNA/RNA solutions** from **Column 6/12** into new sterile tubes. The viral DNA/RNA solutions are ready to be used or can be stored at -80℃.

Table 1. Recommended program for Auto-Pure 32A Nucleic Acid Purification System

Step	Well	Name	Mix time (min)	Magnet (sec)	Wait time (min)	Vol. (μL)	Mix speed (1-10)	Temp. (℃)	Mix pos (0-100%)	Mix amp (1-100%)	Magnet pos (0-100%)	Magnet speed (1-10)
1	5	Beads	0.5	60	0	800	8	OFF	0	80	0	1
2	1	Bind	10	40	0	800	9	100	0	80	0	1
3	3	Wash1	2	20	0	600	9	OFF	0	80	0	1
4	4	Wash2	1	20	0	800	9	OFF	0	80	0	1
5	5	Wash3	1	20	1	800	9	OFF	0	80	0	1
6	6	Elute	6	40	0	80	10	90	0	80	0	1
7	4	Drop	0.5	0	0	800	8	OFF	0	80	0	1

Note: Set 'Heating synchronization', 'Cool Fan Disabled', 'Cooling synchronization', and 'Drying Fan Disabled'

PROCEDURE（BW-MR6536-A96）

1. Take out the 96-well plates required for single batch viral DNA/RNA extraction. Gently shake the plates if necessary to let the reagent or magnetic beads assemble at the bottom of the plates. If there is any precipitation in **Lysis Buffer A**, incubate the plate at 37°C to dissolve the precipitation before use.
2. In a biosafety cabinet, carefully remove the sealing foil of the 96-well plate named **Lysis Buffer A**, aspirate **200 μL samples** (serum, plasma, swab sample, etc.) into the deep wells. Put the plate on **position 2** of the AllshengAuto-Pure 96 instrument.
3. Carefully remove the sealing foil of the 96-well plate named **Wash Buffer 1**, put it on **position 3** of the Auto-Pure 96 instrument.
4. Carefully remove the sealing foil of the 96-well plate named **Wash Buffer 2**, put it on **position 4** of the Auto-Pure 96 instrument.
5. Carefully remove the sealing foil of the 96-well plate named **Wash Buffer 3 / MgPure Beads**, put a **96-Well Tip Comb** into the plate, and put them on **position 5** of the Auto-Pure 96 instrument together.
6. Carefully remove the sealing foil of the 96-well plate named **DEPC-Treated ddH$_2$O**, put it on **position 8** of the Auto-Pure 96 instrument.
7. Run the program described in **Table 2**.
8. After the program is completed, take out the **DEPC-Treated ddH$_2$O** plate on **position 8**, aspirate the **Viral DNA/RNA solutions** into new Nuclease-free tubes.

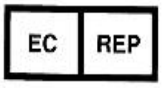
Table 2. Recommended program for Auto-Pure 96 Nucleic Acid Purification System

Step	Name	Plate	Mix Time (min)	Mix Amp (%)	Wait Time (min)	Vol. (μL)	Mix Speed (1-10)	Temp. (°C)	Seg-ments (0-5)	1st Seg. time (s)	2nd Seg. time (s)	3rd Seg. time (s)	4th Seg. time (s)	5th Seg. time (s)	Cycle times (1-10)	Mag. speed (1-10)	Lip-lvl (0-30s)	Anti-Splash (0-30s)
1	Load	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
2	Beads	5	0.5	80	0	800	5	OFF	2	10	10	-	-	-	1	1	0	0
3	Bind	2	9	80	0	800	10	100	1	30	-	-	-	-	1	1	0	0
4	Wash1	3	2	80	0	600	9	OFF	1	10	-	-	-	-	1	1	0	0
5	Wash2	4	1	80	0	800	9	OFF	1	10	-	-	-	-	1	1	0	0
6	Wash3	5	1	80	1	800	9	OFF	1	10	-	-	-	-	1	1	0	0
7	Elute	8	6	80	0	80	4	90	1	40	-	-	-	-	1	1	0	0
8	Unload	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0

Note: Set 'Heating synchronization', 'Cool Fan Disabled', 'Cooling synchronization', and 'Drying Fan Disabled'

Appendix

Index of Symbols

	In vitro diagnostic medical device
	Lot number
	Manufacturer
	Attention, see instruction for use
	Authorized representative in the European Community
	Date of manufacture
	Use until year & month (Expiration date)
	CE mark

LIMITED USE AND WARRANTY

This product is warranted to perform as described in its labeling and in BEIWO'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 BEIWO. BEIWO's sole obligation and purchaser's exclusive remedy for breach of this warranty shall be, at the option of BEIWO, to replace the products, BEIWO 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 400-115-2855 or visit our website at www.beiwobiomedical.com

www.beiwobiomedical.com

Hangzhou Beiwo Medical Technology Co. Ltd.

Address: Room 101 Block 1, #2636 Yuhangtang Rd., Hangzhou, 310000 Zhejiang Province, P.R. China
TEL:+86-571 5639 1588, +86-400 115 2855
E-Mail:market@beiwobiomedical.com
Website:http://www.beiwobiomedical.com/