

Step	Step name	Plate	Wait Time (sec)	Mix Time (sec)	Mag Time (sec)	Liquid Level Z	Mix Speed	Mix Ramp	Amplitude	Temp (°C)
1	Task Magnetic	Washing 2	0	30	60	200	350	150	80	/
2	Sample Lysis	lyse	0	480	60	300	350	150	80	65
3	First Wash	Washing 1	0	90	60	200	350	150	80	/
4	Second Wash	Washing 2	0	90	60	200	350	150	80	/
5	Elution	Elution	180	180	120	/	600	1000	50	65
6	Magnet Reback	Washing 2	0	10	0	/	350	150	80	/

**Precautions:**

1. Please make sure to read this manual before operation.
2. Avoid repeated freezing and unfreezing, otherwise the extraction efficiency will be decreased.
3. Operators should be professionally trained or have qualifications of molecular detection methods. Laboratory should be responsible for biological safety provisions and protective procedures.
4. Please handle the pre-packed plate with care, and shake gently or centrifuge briefly before use to ensure no residue on wall.
5. Use immediately after tearing off the sealing film.
6. When putting the pre-packed plate in the instrument, be sure to set it in place, otherwise the 96-well plate will collide with the magnet rods and damage the instrument. If such a problem occurs during experiment, quickly turn off the instrument.

**Index of Symbols**

				
Consult instructions for use	Manufacturer	Temperature limit	Batch code	Date of manufacture
				
Use-by date	Do not use if package is damaged and consult instructions for use	Do not re-use	In vitro diagnostic medical device	Authorized representative in the European Community/ European Union

European Representative: CMC Medical Devices & Drugs SL  
 Eudamed actor ID: ES-AR-00000293  
 Address: C/Horacio Lengo N18, Málaga, Spain  
 Telephone number:-  
 Email: info@cmcmedicaldevices.com  
 SRN: CN-MF-000013631

**Manufacturer information**  
**Manufacturer: Biocomma Limited**

**Manufacture Address:** B1605-B1606, Life Science Park, Shenchengtou Creative Factory, Julongshan A Road, Xiuxin Community, Kengzi Street, Pingshan District, Shenzhen City, 518118 Guangdong, P.R. China  
**Customer service address:** 101~106, Block 12, Zhonghaixin Innovation Industrial Zone, No. 12 of Ganli Six Road, Ganli Industrial Zone, Jihua Street, Longgang District, Shenzhen City, 518114 Guangdong, P.R. China  
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**Specification approval date and revision date**

Approval date: April 23<sup>rd</sup>, 2020  
 Revision date: Mar 3<sup>rd</sup>, 2022

**biocomma<sup>®</sup> Nucleic Acid Purification Kit**

 DA-AD-01-002EN  
 English

**Virus DNA/RNA Purification Kit**

(pre-packed magnetic bead)

**Product Name:**

Nucleic Acid Purification Kit

**Model:**

BNP027-2E/BNP027-3E

**Type:**

CBPN

**Specification:**

32pcs/box, 96pcs/box

**Application:**

Nucleic Acid Purification Kit is suitable for nucleic acid extraction, enrichment, purification and other steps operated on nucleic acid devices. The purified product is used for clinical in vitro diagnosis.

**Principle:**

Use a unique buffer system and magnetic beads that can specific adsorb and release nucleic acids to achieve the purpose of separation and purification of nucleic acids.

**Main Components:**

Contents	BNP027-2E (32 tests/box)	BNP027-3E (96 tests/box)
Pre-packed plate	2 pcs of MB32-virus	4 pcs of MB96
Magnetic rod cover	4 pcs (8-well strips)	1 pcs (96-well strips)

**MB32-virus pre-packed plate details**

Reagents	Well No.	Volume/Well (µL)
Lysis Solution	1	700
Wash I	2	500
Magnetic Beads	3	730
Eluent	6	100

**MB96 pre-packed plate details**

Label	Reagents	Volume/Well (µL)
MB96-Virus	Lysis Solution	700
MB96-PD	Wash 1	500
MB96-PW	Magnetic Beads	730
MB96-Eluent	Eluent	100

**Service Life and Storage Requirement:**

This kit should be stored at 15~25°C and is valid for 18 months.

**Applicable Instrument:**

Biocomma M32, M96, M96 Plus Automated Nucleic Acid Extraction System

**Sample Requirements:**

1. This kit is suitable for extracting virus DNA/RNA from swab preservation liquid samples.
2. Samples need to be stored in time after collection to avoid sample degradation or contamination.
3. This kit is used for the purpose of extracting nucleic acids. Depending on different sample types, the sample preparation and amount used might be different.
4. For other applications, please contact our technical service for relevant instructions.

**Operation:**

Applicable to Biocomma M32 Automated Nucleic Acid Extraction System

1. Take out the MB32-virus and shake manually to mix well the reagents and magnetic beads. Confirm no residue on wall, then carefully tear off the sealing film without spill.
2. Add 200µL of sample to column 1 and 7 of the well plate.
3. Insert the magnetic rod cover to the holder of the automatic nucleic acid extraction system.
4. Set up and run the program according to following table. After the program is done, the solution in columns 6 and 12 are extracted nucleic acid which recommends to use immediately or store at -20°C.

Run	Well No.	Name	Standby (Min)	mix (Min)	volume (µL)	speed (1-3)	Mag (Sec)	temp (40-80°C)	pause
√	3	Binding	0	1	730	2	15	0	
√	1	Lysis	0	5	1000	3	15	65	
√	2	Washing	0	1	500	3	15	0	
√	3	Washing	0	1	700	3	15	0	
√	6	Elution	3	2	100	1	30	65	
√	3	Magnetic Beads Transfer	0	1	700	3	0	0	

**Applicable to Biocomma M96 Automated Nucleic Acid Extraction System**

1. Confirm no residue on wall, then carefully tear off the sealing film without spill.
2. Add 200µL of sample to MB96-virus.
3. Insert the magnetic rod cover to the holder and plate the reagent Plate into the machine.

Plate 2	Plate 3	Plate 4	Plate 6
MB96-Virus	MB96-PD	MB96-PW	MB96-Eluent

4. Set up and run the program according to following table. After the program is done, the solution in MB96-eluent is extracted nucleic acid which recommends to use immediately or store at -20°C.

Step	1	2	3	4	5	6
Well No.	4	2	3	4	6	3
Standby (min)	0:0:0	0:0:0	0:0:0	0:0:0	0:1:0	0:0:0
Mixing (min)	0:0:30	0:3:00	0:1:00	0:1:00	0:3:00	0:0:30
Spend	3	6	6	6	1	6
Mag	1:0	1:0	1:0	1:0	1:0	0:0
Lysis temp (°C)	-		Elution temp (°C)	65.0	4°C Store time	0:0

**Applicable to Biocomma M96 Plus Automated Nucleic Acid Extraction System**

1. Confirm no residue on wall, then carefully tear off the sealing film without spill.
2. Add 200µL of sample to MB96-virus.
3. Insert the magnetic rod cover to the holder and plate the reagent Plate into the machine.

Plate lyse	Plate Washing1	Plate Washing 2	Plate Elution
MB96-Virus	MB96-PD	MB96-PW	MB96-Eluent

4. Set up and run the program according to following table. After the program is done, the solution in MB96-eluent is extracted nucleic acid which recommends to use immediately or store at -20°C.

图纸表

发起部门	产品项目管理部		
接收部门	营销部		
产品名称	Virus DNA/RNA Purification Kit (pre-packed magnetic bead)说明书	申请人	王璐瑶
物料编号	SM094	营销部设计人	林锦花
版本号	DA-AD-01-002EN	营销部审核人	陈辉
成品尺寸	142.5x210mm	产品部审核	
材质要求		产品部审核	
工艺		产品部审核	
应用范围		法规部审核	
修改日期	2022.3.4	管代批准	
新更改图纸说明			
图纸色值			