

High-Q™ Magnetic-96 Viral RNA Purification Kit

Ordering info

TBK0235, 96 reactions

Description

High-Q™ Magnetic-96 Viral RNA Purification Kit is a new generation nucleic acid purification kits intended for automated purification systems. It is based on magnetic beads technology for purification of biomolecules. High-Q™ Magnetic beads use is combined with heating steps enhancing sample lysis and elution. The samples are firstly lysed and the nucleic acids are bound to the surface of silica-coated paramagnetic beads in the presence of a chaotropic salt. Viral RNA bound to the beads is then efficiently washed and eluted using a magnetic separation device, removing contaminants. High-Q™ Magnetic-96 Viral RNA Purification Kit allows high-throughput RNA purification.

Features

- **High throughput**, 96 samples in less than 1 hour.
- **Versatile**, isolation of nucleic acid of a broad range of virus.
- High RNA quality for all downstream applications.

Applications

- Standard and quantitative RT-PCR
- Viral Detection
- Genotyping
- Viral Research

Kit Components

Components	TBK0235
Proteinase K	30 mg
Resuspension Buffer	1 mL
Plate 1, Sample	1
Plate 2, Beads	1
Plate 3, Wash 1	1
Plate 4, Wash 2	1
Plate 5, Wash 3	1
Plate 6, Elution	1
Plate 7, Comb	1
96-Tip Combs	1

Storage

Store the kit at 4°C. **Do not freeze magnetic beads.**

The product is shipped at room temperature (stable 1 week) or in blue ice.

Quality Control

Each lot is tested by a functional assay.

Robotic Instrument

Use 96-tip combs robotic platforms such as Kingfisher™ 96, Kingfisher™ Flex 96, Bioer GenePure Pro-96 or similar systems.

PROTOCOL

I. SAMPLE PRETREATMENT

This kit is suitable for direct nucleic acid extraction from serum, plasma, ascites, urine, cell culture supernatants, rinse liquid from nasopharyngeal or oropharyngeal swabs and other liquid samples (e.g. virus in UTM or VTM).

II. REAGENTS

- **Proteinase K:** Store enzyme powder at -20°C for up to 2 years and at 4°C for up to 2 months. For resuspension add all Resuspension Buffer to the Proteinase K provided. Proteinase K Solution is stable at 4°C for at least 2 months. For long term (> 2months); store resuspended proteinase K at -20°C.
- **Magnetic beads** MUST be stored at 4°C. If magnetic beads are stored at -20°C they will irreversibly aggregate and they will lose the capacity of binding nucleic acids. Magnetic beads contain sodium azide at 0,02% as preservative, so they MUST be handled with care.

III. AUTOMATIZED WORKFLOW

1. Put the plates at room temperature. Spin them.
2. Take off the aluminum foil and add sample and proteinase K, in this order, to the sample plate. Do not change the order of reagent addition for the sample plate.

POSITION	PLATE	REAGENT	VOLUME PER WELL
1	SAMPLE	Sample adjusted to 300 µL	300 µL
		Proteinase K	10 µL
		Magnetic Lysis Buffer	600 µL
2	BEADS	High-Q™ Magnetic Beads	200 µL
3	WASH	Magnetic Washing Buffer 1	625 µL
4	WASH	Magnetic Washing Buffer 2	625 µL
5	WASH	Magnetic Washing Buffer 3	625 µL
6	ELUTION	Water	80 µL
7	COMB		-

Order Info Kit Components: Proteinase K (TBZ0305) | High-Q™ Magnetic Beads (TBR0270) | 96-Tip Combs (TBM0034). Magnetic Lysis Buffer (TBB0540) | MWB 1, Magnetic Washing Buffer 1 (TBB0541) | MWB 2, Magnetic Washing Buffer 2 (TBB0542) | MWB 3, Magnetic Washing Buffer 3 (TBB0543) | Water (TBB0300).

3. Take care to label all plates to avoid mistakes during the loading of the instrument. Put the plates in the correct positions.
4. Start the program TIARIS VIRAL RNA-96 (King-Fisher).