

Sera-Xtracta Virus/Pathogen Kit

FAQs

Application and automation

- 1. Can I use Sera-Xtracta™ Virus/Pathogen Kit for nucleic acid isolation?** Yes, Sera-Xtracta Virus/Pathogen Kit is a non-carrier RNA bead-based extraction chemistry for total nucleic acid (DNA and RNA) isolation from various pathogen types including Adenovirus (Type 14), Influenza A (H3N2) and SARS-CoV-2 (COVID-19).
- 2. Are there any limitations on the sample types that can be extracted with Sera-Xtracta Virus/Pathogen Kit?** The kit is recommended for use with respiratory biological matrices (swabs), blood and universal transport media.
- 3. Is the kit scalable?** It can be used with up to 400 µL of sample.
- 4. How sensitive is the kit?** The kit is sensitive enough for reproducible detection of low viral titer down to 1 copy/µL for COVID19 assay.
- 5. What type of particles are used in the Sera-Xtracta Virus/Pathogen Kit?** The kit is based on silica-coated magnetic bead technology.
- 6. What is the protocol duration?** The isolation procedure can be completed in less than 30 minutes to give pure and high-quality copurified DNA and RNA suitable for sensitive molecular testing, including quantitative polymerase chain reaction (qPCR, RT-qPCR), droplet digital PCR (ddPCR), and next-generation sequencing (NGS).
- 7. Can Sera-Xtracta Virus/Pathogen Kit be easily automated?** Yes. Use of paramagnetic beads allows use on any open automation platform. When automating, pay attention to the settling time and employ intermittent mixing if necessary.
- 8. Is the product intended for research use only?** The product is intended for Research Use Only (RUO) and shall not be used in any clinical or *in vitro* procedures for diagnostic purposes. It must not be used internally or externally in humans or animals.

Storage and handling

- 1. How should Sera-Xtracta Virus/Pathogen Kit be stored?** All kit components should be stored at room temperature (15°C–30°C).
- 2. Is a pulse spin in a microcentrifuge necessary before each magnetic settling step?** A pulse spin in a microfuge is strongly recommended before magnetic settling to ensure all the liquid sample in the tube is collected together in a single bulk volume at the bottom of the tube. Isolated droplets on the tube walls or trapped under the tube lid will affect results.
- 3. How many reactions can be performed with one Sera-Xtracta Virus/Pathogen Kit?** Each kit is designed to provide 96 purifications.

Physical characteristics

- 1. Where can I find the Certificate of Analysis (CofA) for my lot of Sera-Xtracta Virus/Pathogen Kit?** Enter your specific lot number to retrieve the CofA at cytiva.com/certificates.

- 2. What is included in the Sera-Xtracta Virus/Pathogen Kit?**

Component	96 extractions	1000 extractions
Binding/lysis reagent	60 mL	630 mL
Wash Buffer	100 mL	1000 mL
SeraSil-Mag™ 400 beads	1.1 mL	10.4 mL
SeraSil-Mag 700 beads	1.1 mL	10.4 mL
Proteinase K liquid	1.5 mL	2 × 5.5 mL

- 3. What additional reagents do I need to provide?**

The end user is required to supply:

- Nuclease-free water, for reconstitution of dried Proteinase K to 20 mg/mL solution.
- Absolute ethanol, for preparing the second wash buffer formulations before first use.

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