

sbeadex viral RNA purification kit

For Research Use Only. Not for use in diagnostic procedures.

Purification kit solution for viral RNA preparations

Coronavirus disease 2019 (COVID-19) is an infectious human disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). Key to the successful detection of this positive-sense single-stranded RNA (+ssRNA) virus is the reliable purification of RNA from swabs in UTM and sputum samples. The sbeadex™ viral RNA purification kit utilises magnetic bead-based RNA purification technology to facilitate reliable high quality RNA preparations for use in downstream real-time PCR applications.

sbeadex kits for swabs in UTM and sputum samples

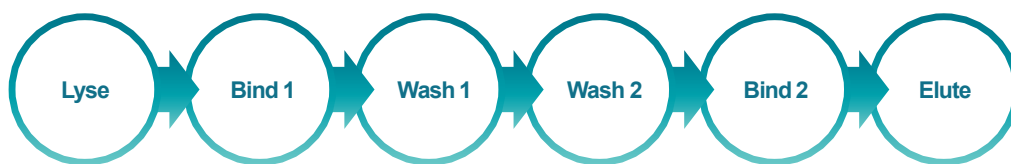
LGC, Biosearch Technologies™ is an international supplier of extraction and purification kits and is primarily focused on automated high-throughput kits. The sbeadex viral RNA purification kit portfolio offers products for all scales of nucleic acid preparation from swabs in UTM and sputum samples, eluting in 100 µL buffer. The performance of these kits on viral material has been demonstrated using AccuPlex™ Reference Material from LGC SeraCare Life Sciences. The AccuPlex™ Reference Material Kit and Verification Panel are non-infectious and replication deficient full process SARS-CoV-2 Quality Solutions optimised for assay verification at installation and measuring day-to-day performance. The sbeadex viral RNA purification kit protocol is automatable using Biosearch Technologies' oKtopure™ instrument and the KingFisher Flex Purification system (ThermoFisher Scientific).

RNA preparation protocol

The sbeadex kits use magnetic separation for the purification of nucleic acids. Superparamagnetic particles coated with sbeadex surface chemistry use a novel two-step binding mechanism which, when combined with the washing steps, removes impurities from the preparation. After washing, the RNA is eluted from the magnetic particles and is ready for use in downstream RT-PCR applications.

The sbeadex viral RNA purification solution

- High-quality RNA preparations for downstream real-time PCR applications
- High-throughput batch sizes (5,000 and 10,000 purifications)
- Compatible with standard swab types
- Water-based wash buffers reduce solvent carryover, resulting in absence of PCR inhibitors in final elutate
- Purified RNA compatible with Biosearch Technologies' CDC-qualified probe and primer kit



Application areas

Standard protocols are available for use on both the oKtopure (Biosearch Technologies) and the KingFisher magnetic particle processor (ThermoFisher Scientific) for 100 µL starting sample volumes. If you require further assistance, please contact our technical specialists.

Advantages

- **Efficient** – purification of high quality RNA from swabs in UTM and sputum samples
- **Easy to automate** – magnetic microparticle handling offers flexibility in automated processing
- **Convenient** – all buffers are supplied ready to use
- **Absence of PCR inhibitors** – no organic solvents or chaotropic salts in final wash buffers
- **Use with the oKtopure** – full walk-away RNA extraction after lysis step

Ordering information

Geographical region	Catalogue number	Number of purifications per kit*
RoW (excluding APAC)	NAP-40-024-02	960 (trial kit)
	NAP-40-024-03	5000
	NAP-40-024-04	10000
APAC-suitable (without dangerous goods)	NAP-40-025-02	960 (trial kit)
	NAP-40-025-03	5000
	NAP-40-025-04	10000

Catalogue numbers for sbeadex viral RNA purification kits. RoW = rest of world; APAC – Asia-Pacific.
 *Number of purifications is based on a starting volume of 100 µL sample.

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