

# sbeadex Pathogen Nucleic Acid Purification Kit

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

## Purification kit for pathogen nucleic acid preparations

Key to the successful detection of viral and bacterial pathogens is the reliable purification of nucleic acids from swabs in universal transport media (UTM) and sputum samples. The [sbeadex™ Pathogen Nucleic Acid Purification Kit](#) utilises magnetic bead-based nucleic acid purification technology to facilitate reliable high-quality DNA and RNA preparations for use in downstream PCR and 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 Pathogen Nucleic Acid Purification Kit portfolio offers products for all scales of nucleic acid preparation from swabs in UTM and sputum samples, eluting in 100 µL buffer. Testing of additional sample matrices is in progress (see our website for up-to-date information). The sbeadex Pathogen Nucleic Acid Purification Kit protocol is automatable using Biosearch Technologies' oKtopure™ instrument and the KingFisher™ Flex Purification system (ThermoFisher Scientific).

## Nucleic acid 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 nucleic acid is eluted from the magnetic particles and is ready for use in downstream PCR and RT-PCR applications.



Figure 1. Easy 6-step purification procedure using Biosearch Technologies' innovative sbeadex technology.

## The sbeadex Pathogen Nucleic Acid Purification Kit solution

- High-quality DNA/RNA preparations for downstream PCR and 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

### Application areas

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

### Advantages

- **Efficient** – purification of high-quality DNA and 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 nucleic acid extraction after lysis step

\* Testing of other sample matrices is in progress

### Ordering information

	Catalogue number	Number of purifications per kit**
With Protease K	<b>NAP-40-024-01</b>	96 (trial kit)
	<b>NAP-40-024-02</b>	960
	<b>NAP-40-024-03</b>	5,000
	<b>NAP-40-024-04</b>	10,000
Without Protease K	<b>NAP-40-026-01</b>	96 (trial kit)
	<b>NAP-40-026-02</b>	960
	<b>NAP-40-026-03</b>	5,000
	<b>NAP-40-026-04</b>	10,000

Table 1. Catalogue numbers for Pathogen Nucleic Acid Purification Kits

\*\* Number of purifications is based on a starting volume of 100 µL sample.

Note: We also offer a [no dangerous goods option](#) and a [no dangerous goods with no Proteinase K option](#) for Asia Pacific.

We also provide customised solutions, very economical bulk sizes, individual setups and/or individually tailored kits.

Please [contact us here](#) using the green 'make an enquiry' button.

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