

Product insert

sbeadex particle suspension sbeadex particle suspension + EDTA

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

Product overview

sbeadex™ particle suspension and sbeadex particle suspension + EDTA are Fe₃O₄ magnetic beads with a carboxylated silica layer. The silica coating can bind nucleic acids which makes sbeadex beads an ideal option for the automated purification of genomic DNA, plasmid DNA, RNA, or PCR products for downstream analysis. The addition of EDTA to the bead solution promotes the chelation of haemoglobin to minimise inhibition in subsequent PCR analysis.

Product specifications

Concentration (w/v)	100 mg/mL
Appearance	Aqueous suspension of dark brown particles
Shape	Irregular
Composition	Iron oxide, silica oxide, carbon, carboxyl, nitrogen
Core	Magnetite (Fe ₃ O ₄)
Matrix	Carboxylated silica
Type of magnetisation	Superparamagnetic
Surface functional groups	Silanol, -Si-OH, -COOH
Average particle size	<53 µm, 80% 5-10 µm
Surface area (BET)	30 m ² /g
Density	1.065 g/cm ³
Recovery	DNA/RNA recovery up to 100%*
pH stability	pH 3-12
Storage buffer	ddH ₂ O (+ 100 mM EDTA)
Recommended application	Genomic DNA isolation, plasmid isolation, RNA isolation
Binding mechanism	Dependent on buffer system
Elution	Alkaline, aqueous, low salt

* Dependent on the isolation conditions

Storage

sbeadex particle suspension and sbeadex particle suspension + EDTA should be stored at room temperature and are stable for 1 year. Please refer to the product label for exact expiry date. The product can be shipped at room temperature.

Product insert

sbeadex particle suspension

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Ordering information

The table below details the available pack sizes and corresponding catalogue numbers for sbeadex particle suspension and sbeadex particle suspension + EDTA.

Cat no.	Description	Size (mL)
NAP41134	sbeadex particle suspension + EDTA	1 mL
NAP41135	sbeadex particle suspension + EDTA	10 mL
NAP41136	sbeadex particle suspension + EDTA	100 mL
NAP20-007-04	sbeadex particle suspension + EDTA	250 mL
NAP20-007-05	sbeadex particle suspension + EDTA	500 mL
NAP20-007-06	sbeadex particle suspension + EDTA	1000 mL
NAP41131	sbeadex particle suspension	1 mL
NAP41132	sbeadex particle suspension	10 mL
NAP41133	sbeadex particle suspension	100 mL
NAP20-006-04	sbeadex particle suspension	250 mL
NAP20-006-05	sbeadex particle suspension	500 mL
NAP20-006-06	sbeadex particle suspension	1000 mL

Safety information

The SDS for sbeadex particle suspension and sbeadex particle suspension + EDTA can be accessed on our [webpage](#).




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