

Silicon Hydroxyl Magnetic Beads NEOH400 III



—Recommended for cfDNA extraction

Silicon Hydroxyl Magnetic Beads NEOH400 III developed by MGI is a monodisperse magnetic beads with many silicon hydroxyl groups. It has high specific surface area and good dispersion, especially suitable for cfDNA extraction.



Highlights

- Fast magnetic response**
Suitable for large-scale automated nucleic acid extraction
- Large specific surface area**
High efficiency of nucleic Acid capture ability
- Good dispersibility**
Efficient binding and recovery of nucleic acid

Product Parameters

Product Specification	100 mL/bottle, 1000 mL/bottle
Concentration	50 mg/mL
Magnetic Core	Fe ₃ O ₄
Magnetic Shell	SiO ₂ Polymer/Silica
Surface Groups	OH (Silicon hydroxyl groups)
Particle Size	300-500 nm
Magnetic Response Time	<30s
Color	Black
Expiration Date	2 years
Storage conditions	Store at 2-8°C; do not cryopreserve
Application	Extract free DNA from blood or urine

Performance

High efficiency recovery of cfDNA extraction

50 ng gDNA was broken into gradient bands in the range of 50-500 bp and spiked into 3mL EB Buffer as simulated sample. 200 μ L simulated sample was extracted by MGIEasy Circulating DNA Extraction Kit (with Silicon Hydroxyl Magnetic Beads NEOH400III as the component). Compared the simulated sample before and after extraction, the Silicon Hydroxyl Magnetic Beads NEOH400III can efficiently recover DNA in the range of 50-500 bp.

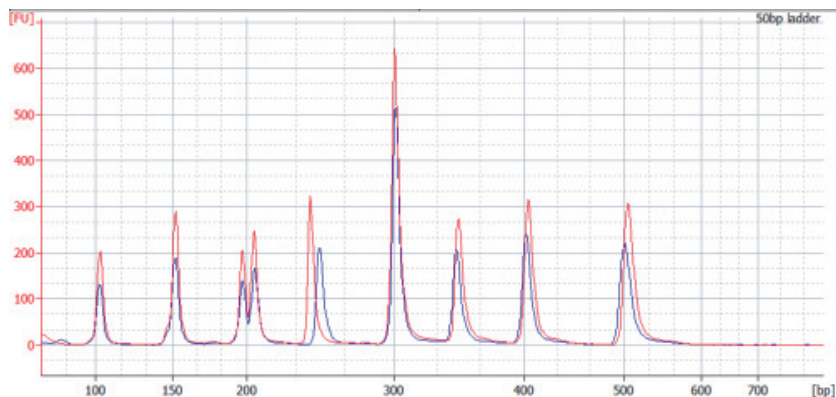


Fig 1. Analysis diagram of 50-500 bp DNA fragments before and after extraction. The red curve represents the DNA gradient bands before extraction and the blue curve represents the DNA gradient bands after extraction by MGIEasy Circulating DNA Extraction Kit

Ordering Information

Cat. No.	Product Name	Concentration	Specification
940-000652-00	Silicon Hydroxyl Magnetic Bead NEOH400III	50 mg/mL	100 mL/bottle
940-000650-00	Silicon Hydroxyl Magnetic Bead NEOH400III	50 mg/mL	1000 mL/bottle

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Version: August 2023



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