

# Silicon Hydroxyl Magnetic Beads NEOH3000 I

—Recommended for blood gDNA extraction

The Silicon Hydroxyl Magnetic Beads NEOH3000 I developed by MGI is a polydisperse magnetic beads with a large number of silicon hydroxyl groups, which could be used to extract nucleic acid from viscous samples, especially blood and saliva samples.



## Highlights

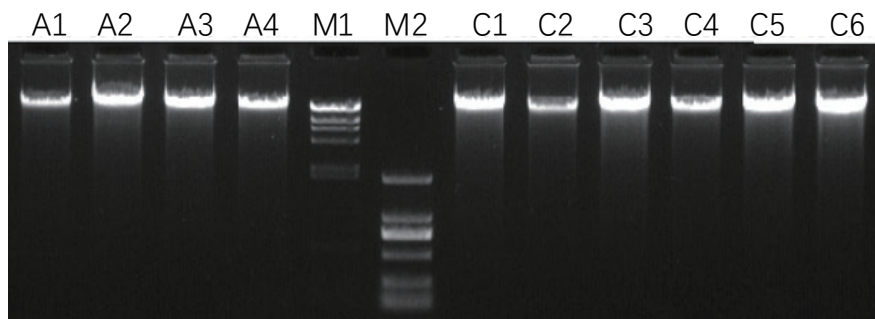
- ⚡ **Faster magnetic responsibility**  
 Suitable for automated nucleic acid extraction
- ⬆ **Good nucleic acid binding capacity**  
 High recovery efficiency of nucleic acid
- ⬇ **Easy to disperse**  
 Particularly apply to extract gDNA from viscous samples

## Product Parameter

Product Name	Silicon Hydroxyl Magnetic Beads NEOH3000 I
Specification	100 mL/bottle, 1000 mL/bottle
Concentration	25 mg/mL
Magnetic Core	Fe <sub>3</sub> O <sub>4</sub>
Magnetic Shell	SiO <sub>2</sub> Polymer /Silica
Surface Groups	OH (Silicon hydroxyl groups)
Particle Size	1-3 μm
Magnetic Response Time	<30 s
Color	Black
Expiration Date	2 years
Storage conditions	Store at 2-8°C; do not cryopreserve
Application	Blood gDNA extraction

## ● Performance

Efficiently extract high-quality gDNA from frozen blood samples stored for long time



**Fig 1.** 1% agarose gel electrophoresis of gDNA extraction by MGIEasy blood gDNA extraction kit (with Silicon Hydroxyl Magnetic Beads NEOH3000 I as the component). A1-A4 are frozen buffy coat samples stored for 5 years; C1-C6 are stored for frozen buffy coat samples stored for 4 years. M1 and M2 are  $\lambda$ -Hind III digest DNA Marker and 50bp DNA Ladder Marker.

**Table 1.** gDNA extraction results from frozen blood samples by MGIEasy blood gDNA extraction kit

Sample volume ( $\mu$ L)	Purity (A260/280)	Purity (A260/230)	Yield ( $\mu$ g)
200	1.83	1.94	10.2
200	1.83	1.93	9.1
200	1.82	1.93	7.3
200	1.84	2.02	12.6
200	1.82	1.83	9.0
200	1.83	1.89	8.4
200	1.82	1.74	4.0
200	1.82	1.76	8.1

## ● Ordering Information

Cat. No.	Product Name	Concentration	Specification
940-00654-00	Silicon Hydroxyl Magnetic Bead NEOH3000 I	25 mg/mL	100 mL/bottle
940-00649-00	Silicon Hydroxyl Magnetic Bead NEOH3000 I	25 mg/mL	1000 mL/bottle

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