

Carboxyl Magnetic Beads TQ01



—Recommended for virus
DNA and RNA extraction

MGI magnetic beads TQ01 developed by MGI is monodisperse superparamagnetic beads with a large number of carboxyl groups, which could be used to efficiently extract nucleic acid from various types of samples.



Highlights

- Fast magnetic response**
Suitable for large-scale automated nucleic acid extraction
- Good nucleic acid binding ability**
High recovery efficiency of trace DNA/RNA
- Low non-specific adsorption rate**
No inhibition on downstream reaction
- Compatible with chemistry with alcohol and without alcohol**

Product Parameters

Product Name	MGI Magnetic Beads TQ01
Specification	100 mL/bottle, 1000 mL/bottle
Concentration	25 mg/mL
Magnetic Core	$\text{Fe}_3\text{O}_4/\text{Fe}_2\text{O}_3$
Magnetic Shell	PMAA Polymer
Surface Groups	COOH (hydroxyl)
Particle Size	1 μm
Magnetic Response Time	< 30 s
Color	Brown
Expiration Date	2 years
Storage conditions	Store at 2-8 °C; do not cryopreserve
Application	Virus DNA / RNA extraction, stools gDNA extraction

● Performance

Excellent virus DNA and RNA extraction ability

The MGIEasy Nucleic Acid Extraction Kit (with Magnetic Beads TQ01 as the component) made by MGI was used to detect the COVID-19 pseudovirus samples with different concentrations. 100 copies/mL could be detected stably.

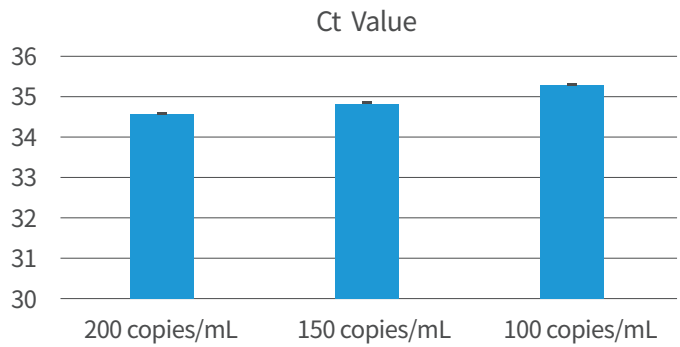


Fig 1. The Ct value results of COVID-19 detection with 3 concentrations samples (20 repeats per concentration, CV<5%)

Good extraction efficiency for complex samples, such as stool samples

The MGIEasy Stool Human DNA Extraction Kit (with Magnetic Beads TQ01 as the component) was used for human stool samples with manual and automatic extractors. The results in Fig.2 show that the extraction kit with TQ01 could extract nucleic acid from stool samples efficiently.

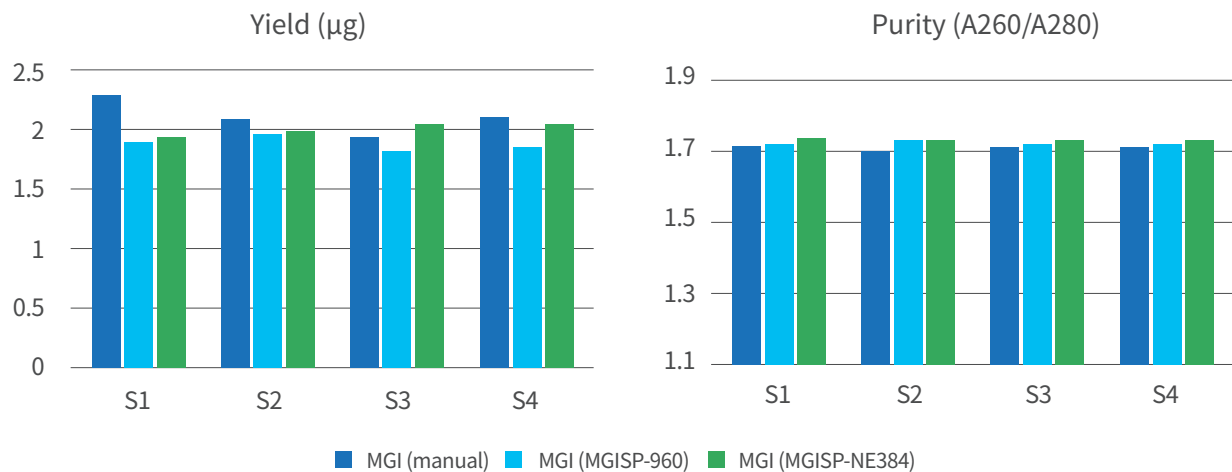


Fig. 2 The extraction yields and purity of stool samples by manual, automatic extractor MGISP-960 and MGISP-NE384

● Ordering Information

Cat. No.	Product Name	Concentration	Specification
940-000121-00	MGI Magnetic Beads TQ01	25 mg/mL	100 mL/bottle
940-000120-00	MGI Magnetic Beads TQ01	25 mg/mL	1000 mL/bottle

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Version: August 2023



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