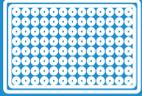


Mag-Bind® Stool DNA 96 Kit

Isolates high quality host & pathogen genomic DNA from stool samples utilizing magnetic beads

CAT NO: M4016



Disruptor Plate

Pre-filled with glass beads

Simultaneous homogenization & lysis of samples



Bead Based

Scalable purification



Quality

Sequence quality DNA preparations



Safe

No phenol-chloroform extractions



Automatable

Adaptable on most open-ended liquid handlers

Mag-Bind® Stool DNA Kit is designed for rapid and reliable isolation of high quality host as well as pathogenic genomic DNA from stool samples. The Mag-Bind® technology is ideally suited for automated liquid handlers and the uniquely formulated cHTR reagent eliminates PCR-inhibiting compounds such as humic acids, lipids, etc. commonly found in stool samples. The extraction system allows for automation after sample lysis via Hamilton Microlab® STAR™, Thermo KingFisher® Flex™, Applied Biosystems® MagMAX™ 96, Qiagen BioSprint® 96 and other liquid handling instruments.

The kit includes our 96 well disruptor plates which are pre-filled with glass beads. The protocol involves no organic extractions reducing both plastic waste and hands-on time to allow parallel processing of multiple samples. Purified DNA is inhibitor-free and is suitable for various downstream applications such as PCR, restriction digestion and NGS.

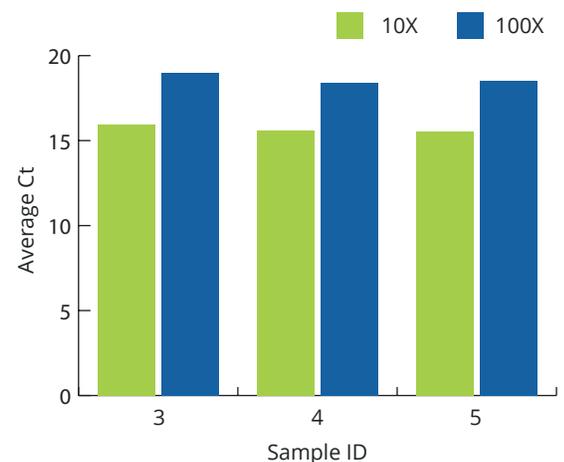
Sample ID	DNA Yield in µg (NanoDrop®)	A ₂₆₀ /A ₂₈₀	DNA Yield in µg (PicoGreen®)
1	3.61	1.87	3.20
2	3.71	1.87	4.20
3	2.73	1.9	2.00
4	3.03	1.83	2.70
5	1.76	1.83	1.90
6	3.53	1.81	3.70
7	3.60	1.86	3.30
8	1.76	1.83	2.00

DNA Yield and Purity

Table 1. DNA was extracted from 250 µL of stool samples and was eluted in 100 µL volume. The DNA yield was determined using NanoDrop® and PicoGreen® quantification methods.

Real-time PCR Targeting Bacterial Communities in Stool Samples

Figure 1. Average Ct values obtained using 16S bacterial specific primers on 10X and 100X diluted purified DNA as the template. Sample IDs 3, 4, and 5 are represented here.



Product Description	Preps	Cat No.
Mag-Bind® Stool DNA 96 Kit	1x96	M4016-00
	4x96	M4016-01

For free samples of any of our kits, visit www.omegabiotek.com



innovations in nucleic acid isolation

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