



Microbiome sample management

Collect, stabilize & extract DNA for gut microbiome profile studies

INVITEK
Molecular

Extraction kits

Invitek Molecular is committed to developing products for state-of-the-art sample collection and nucleic acid extraction used in microbiome research. Maintaining the integrity of samples collected is a major challenge. Our collection and extraction systems guarantee an excellent performance in NGS downstream applications.

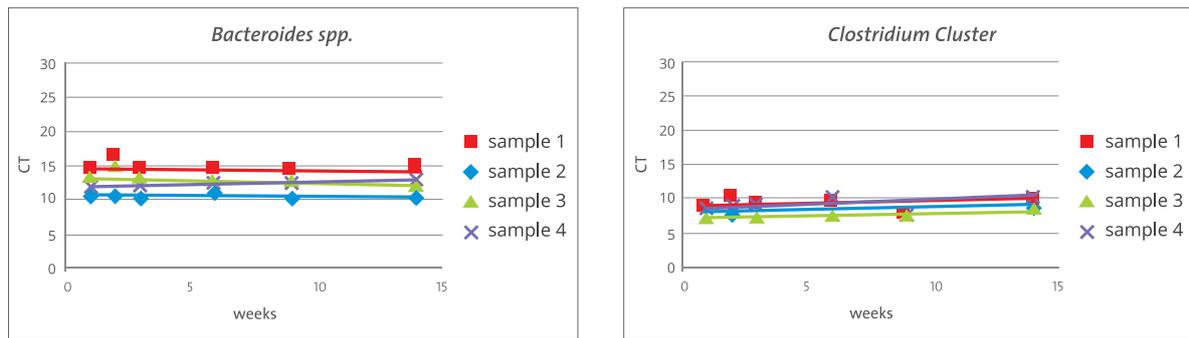


- ✓ Remove all PCR inhibitors from DNA samples
- ✓ Isolate DNA from microorganisms or from the host organism
- ✓ Extract nucleic acids from food and feed residues of plant or animal origin from the stool sample
- ✓ Obtain high quality DNA suitable for 16S rRNA Microbiome profiling, Shotgun Metagenomic Sequencing, qPCR and arrays

Fast and convenient handling

The kits contain the InviAdsorb matrix in order to remove all effective inhibitors very efficiently. After a rigorous pre-lysis step using Zirconia Beads with optimized pre-lysis buffer at high temperatures, the sample is pre-incubated with InviAdsorb to remove PCR inhibitors. Proteinase K digestion ensures high yields also from Gram-positive bacteria. Stool samples contain a range of DNA e.g. host DNA from colon epithelial cells, parasite DNA, bacterial DNA, DNA from food or DNA from gastrointestinal pathogens. The choice of different lysis conditions enables the accumulation or reduction of the bacterial DNA content in the total DNA.

DNA extraction after sample storage at ambient temperatures



1.4 ml of preserved stool samples were tested on day 1, day 2, day 7, day 18, day 49 and day 105 for DNA isolation using the manual spin kit. 2 µl eluate were used in the RIDA®GENE Gut Balance real-time PCR assay from R-Biopharm (Darmstadt, Germany).

Kit	Starting material	Package sizes	Catalogue number
Membrane adsorption			
PSP® Spin Stool DNA Basic Kit  (without lysis buffer)*	1.4 ml Stool DNA Stabilizer	50 preps	1038120200
	with stool homogenate	250 preps	1038120300
Automated using magnetic beads			
InviMag® Stool DNA Kit/KF96 (for use on KingFisher™ 96 and KingFisher™ Flex, Thermo Fisher Scientific)	up to 200 - 400 mg	5x96 preps	7438300200

*) For sample lysis, the kit needs to be combined with Stool Collection Tubes with Stool DNA Stabilizer or Stool DNA Stabilizer (180 ml for 50 preps, 2 x 180 ml for 250 preps), for ordering information please refer to page 2.



Compliance with EU Directive 98/79/EC on in vitro medical devices.
Not for in-vitro diagnostic use in countries where the EU Directive 98/79/EC on in vitro medical devices is not recognized.

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