

MICROBIOME

Sample management



Collect, stabilize & extract DNA for
gut microbiome profile studies

Gut microbiome sample management

Invitek Diagnostics offers complete solutions for reliable and validated microbiome sample management, from sample collection and stabilization to manual and automated DNA extraction. With the Stool Collection Tubes, we offer a versatile tool for gut microbiome analysis, microbiome associated disease research and nutrigenomics. Our collection and extraction systems guarantee excellent performance in downstream NGS applications.

Sample Collection Tubes with DNA Stabilizer



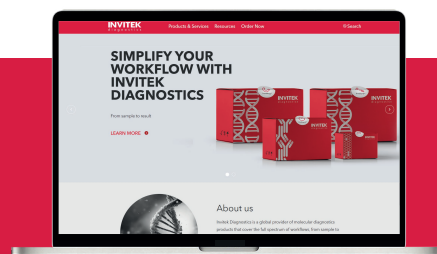
Collection devices

Invitek Diagnostics' Stool Collection Tubes are designed for ease of use and optimal maintenance of sample integrity. The Collection Tube is prefilled with 8 ml of Stool DNA Stabilizer which allows for transport and storage of the sample at room temperature. Thus, there are no costs associated with temperature-controlled shipping.



- Easy sampling with a spoon integrated in the collection tube
- Sample stabilization and preservation of the bacterial titre at the timepoint of collection
- Transport and storage of stabilized DNA at room temperature for 3 months - no cold chain required
- No costs associated with temperature-controlled shipping
- α - diversity equivalent to direct freezing of samples

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AND SEE WHAT'S IN FOR YOU



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SIMPLIFY YOUR WORKFLOW WITH INVITEK DIAGNOSTICS

Extraction kits

**InviSorb®****InviMag®**

For manual extraction Invitek Diagnostics offers the PSP® Spin Stool DNA Basic Kit with the flexible options for sample lysis using the Stool DNA Stabilizer. For comprehensive sample management – sampling, transport, storage and stabilization – the extraction kit can be combined with the Stool Collection Tubes with DNA Stabilizer. For direct lysis and extraction from fresh or frozen stool samples the PSP® Spin Stool DNA Basic Kit can be combined with the DNA Stabilizer available in a bottle format.

For automated extraction, the InviMag® Stool DNA Kit/ KF96 enables high-throughput isolation of total DNA from up to 200 mg stool samples using magnetic beads on the KingFisher™ Flex (Thermo Scientific).

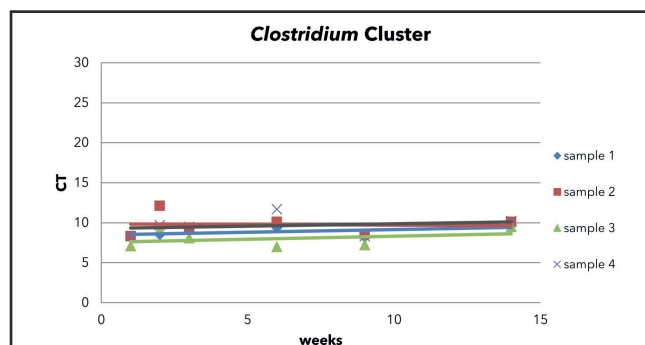
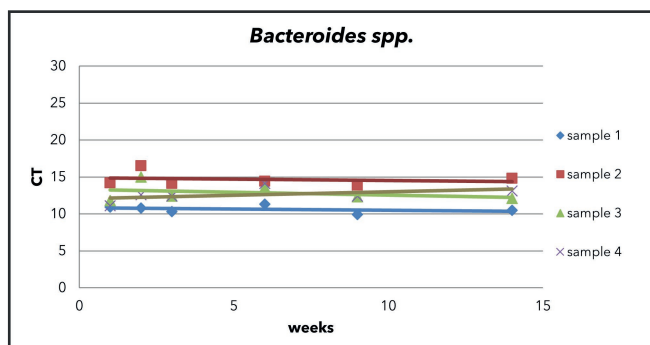


- Removal of all PCR inhibitors from DNA samples
- Isolation of DNA from microorganisms and from the host organism
- High quality DNA suitable for 16S rRNA microbiome profiling, shotgun metagenomic sequencing, qPCR and arrays
- Compatible with the Invitek Stool Collection Tubes with DNA Stabilizer

Fast and convenient handling

Stool is a rich sample type that contains a variety of potential inhibitors. To remove inhibitors, Invitek extraction kits use the unique InviAdsorb matrix. Substances such as humic acid, phytochemicals and other digestive products bind to the matrix and are effectively removed. Zirconia beads and Proteinase K are used for sample lysis, so even difficult-to-lyse gram-positive bacteria are effectively disrupted. Stool samples contain host DNA from colon epithelial cells, parasite DNA, bacterial DNA, DNA from food or DNA from gastrointestinal pathogens. Different sample lysis protocols allow the isolation of target nucleic acids of bacterial and host origin.

DNA extraction after sample storage at ambient temperatures



1.4 ml of preserved stool samples were extracted on day 1, day 2, day 7, day 18, day 49 and day 105 with the PSP® Spin Stool DNA Basic Kit. 2 µl eluate were used in the RIDA®GENE Gut Balance real-time PCR assay from R-Biopharm (Darmstadt, Germany). The result shows that the sample integrity is maintained over the entire test period of 3 months when the samples are stabilized with the Stool DNA Stabilizer.

Sample collection/ sample lysis

Stool Collection Tubes with DNA Stabilizer	1038111200	50 tubes
	1038111300	250 tubes
Stool DNA Stabilizer: stool transport and recovery buffer for stabilization of nucleic acids in stool specimens	1038111100	180 ml

Extraction kit

PSP® Spin Stool DNA Basic Kit (CE-IVD)* (without lysis buffer) <i>For sample lysis, the kit needs to be combined with Stool Collection Tubes with Stool DNA Stabilizer (50 or 250 tubes) or Stool DNA Stabilizer (180 ml for 50 preps, 2 x 180 ml for 250 preps).</i>	1038120200	50 preps
	1038120300	250 preps
InviMag® Stool DNA Kit/KF96 <i>(for use on KingFisher™ 96 and KingFisher™ Flex, Thermo Fisher Scientific)</i>	7438300200	5 x 96 purifications

Fresh or frozen stool samples: max. 200 mg
Stabilized stool samples (Stool Collection Tubes with DNA Stabilizer): 1.4 ml

CONTACT DETAILS

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INVITEK DIAGNOSTICS PORTUGAL

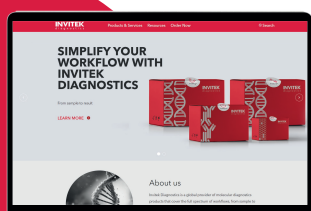
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**) In compliance with REGULATION (EU) 2017/746 on in vitro diagnostic medical devices. Not for in vitro diagnostic use in countries where the REGULATION (EU) 2017/746 on in vitro diagnostic medical devices is not recognized.*