



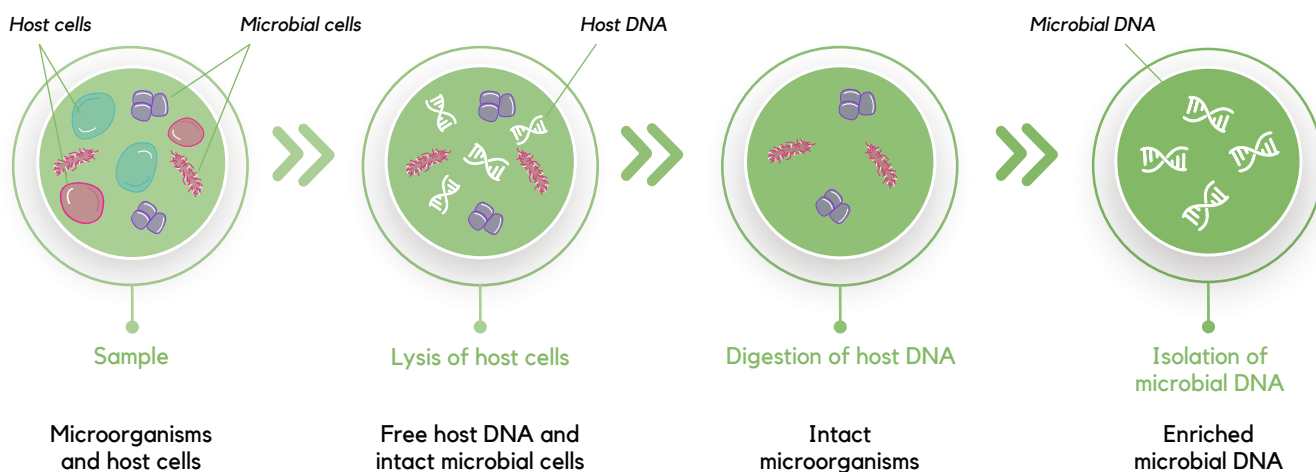
MOLYSIS™

molzym
reveal DNA

DEPLETION OF HOST DNA FOR SIGNIFICANTLY IMPROVED MICROBIAL ANALYSIS

MolYsis™ addresses the challenge that microbial DNA is severely outnumbered by host DNA in complex human or animal samples. With our proprietary and unique technology, **MolYsis™**, host cells are selectively lysed and up to 99% of host DNA is depleted. In a second lysis step, intact bacteria and fungi cells are lysed and the microbial DNA is purified. The entire workflow can be performed manually or fully automated on our **SelectNA™plus** device. The significantly improved microbial to host DNA ratio ensures highest sensitivities for subsequent NGS, PCR and other molecular microbiological methods.

OUR TECHNOLOGY

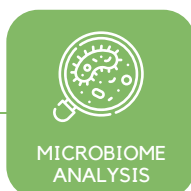


PRODUCT FEATURES

- ✓ Depletion of host (human or animal) DNA
- ✓ Protocols for body fluids, swabs & tissues
- ✓ Ideally suited for PCR & NGS applications
- ✓ Broad-range lysis of bacteria & fungi
- ✓ DNA-free reagents & plastics
- ✓ Manual & automated solutions

APPLICATIONS OVERVIEW

The efficient depletion of host DNA and the use of ultra-clean reagents lead to significantly improved detection of bacteria and fungi - even at very low loads. The utility of **MolYsis™** has been successfully proven in a wide range of applications:



MOLYSIS™ BASIC5

MolYsis™ Basic5 is our most flexible solution for depleting host DNA from body fluids and can perfectly be used as a pre-treatment step in combination with your own DNA isolation kit, including manual and automated systems.

MolYsis™ Basic5 <i>Body fluids</i>	≤ 5 ml	50 reactions	D-301-050
		100 reactions	D-301-100

MOLYSIS™ COMPLETE5

With the **MolYsis™ Complete5** we combine the host DNA depletion with a column-based purification of enriched bacterial and fungal DNA from body fluids. All reagents, plastics and columns provided are guaranteed to be free of microbial DNA contaminations, ensuring reliable and highly sensitive analyses.

MolYsis™ Complete5 <i>Body fluids</i>	≤ 5 ml	50 reactions	D-321-050
		100 reactions	D-321-100

ULTRA-DEEP MICROBIOME PREP KITS

If you want to analyze tissue or swab samples in addition to body fluids, the **Ultra-Deep Microbiome Prep** kits are the perfect choice. The kits contain all reagents for tissue pre-treatment, host DNA depletion and microbial DNA extraction and purification.

Ultra-Deep Microbiome Prep <i>Body fluids, tissues & swabs</i>	≤ 1 ml ≤ 0,5 cm ³	25 reactions	G-020-025
		50 reactions	G-020-050
Ultra-Deep Microbiome Prep10 <i>Body fluids, tissues & swabs</i>	1 - 10 ml ≤ 0,5 cm ³	25 reactions	G-030-025
		50 reactions	G-030-050

AUTOMATION MOLYSIS-SELECTNA™PLUS



With the **SelectNA™plus** benchtop instrument, we have developed the very first automated system that fully combines host DNA depletion and microbial DNA isolation from body fluids, swabs and tissue samples. By using the **MolYsis-SelectNA™plus** kit, one to 12 samples can be processed in parallel, ensuring low hands-on time and contamination-free DNA preparations.

MolYsis-SelectNA™plus <i>Body fluids, tissues & swabs</i>	≤ 1 ml ≤ 0,5 cm ³	48 reactions	D-450-048
---	---------------------------------	--------------	-----------

Molzylm GmbH & Co. KG
Mary-Astell-Str. 10
D-28359 Bremen, Germany
+49 (0) 421 69 61 62 0
www.molzylm.com



All MolYsis™ and Ultra-Deep Microbiome Prep products are for Research Use Only [RUO] and not for use in diagnostic procedures.