



INTRO MolYsis-SNplus™ IVD

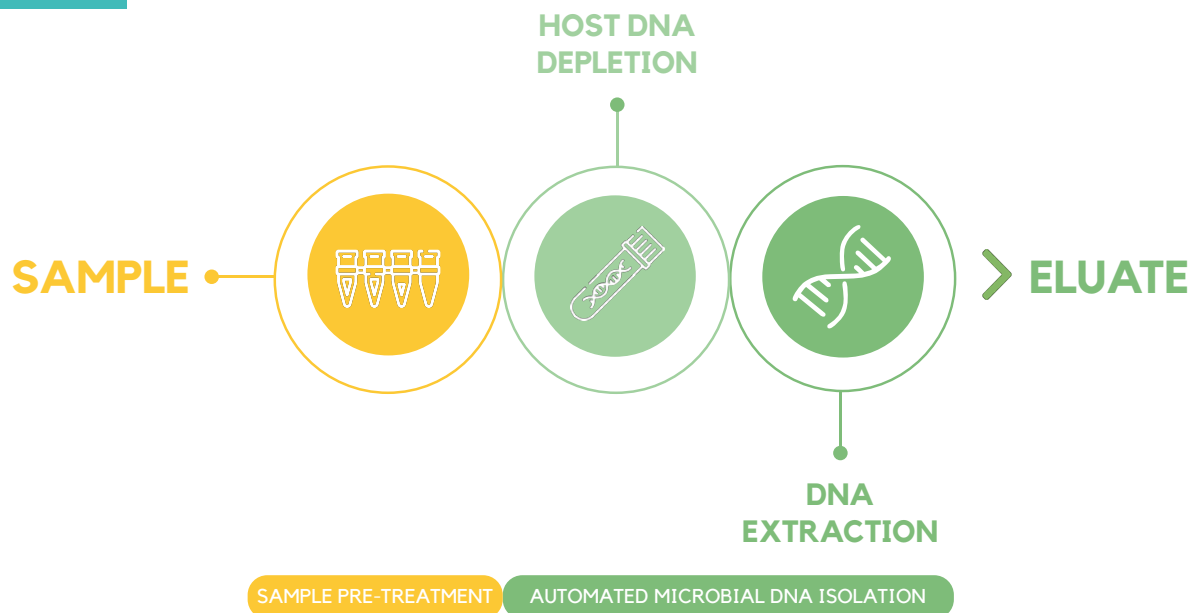
The MolYsis-SNplus™ IVD kit has been developed with the objective of providing laboratory professionals with a tool that facilitates the automated extraction of bacterial and fungal DNA from human samples, while simultaneously depleting the human DNA background. The presence of large amounts of human DNA can introduce "background noise" when using molecular techniques such as PCR or Next Generation Sequencing (NGS). The combination of human DNA depletion with contamination-free reagents and plastics maximizes the chances of detecting microbial DNA directly from human samples even at low levels, ensuring that even trace amounts can be captured and analysed. The method has been validated for a wide range of samples, including body fluids, swabs, and tissues.

PRODUCT FEATURES

- ✓ Fully automated process on the **SelectNA™ plus** device with flexible capacity of 1-12 samples per run
- ✓ Depletion of human DNA & isolation of bacterial and fungal DNA
- ✓ One process for body fluids, swabs & tissues
- ✓ All reagents are free of microbial DNA, no false-positive results from „kitome“

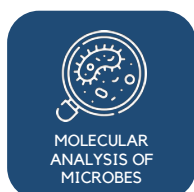


DIAGNOSTIC WORKFLOW

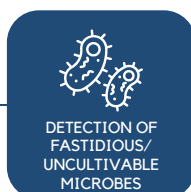


APPLICATIONS OVERVIEW

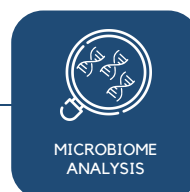
Human DNA depletion is a powerful tool used for increasing the efficiency and accuracy of microbial DNA analysis in a wide variety of fields, from clinical diagnostics to quality control and research.



MOLECULAR ANALYSIS OF MICROBES



DETECTION OF FASTIDIOUS/UNCULTIVABLE MICROBES




MICROBIOME ANALYSIS





CONTAMINATION TESTING


DIAGNOSTIC ADDED VALUE

Detecting bacteria or fungi in human samples can be challenging, particularly when pathogens are present in minimal amounts. The removal of human DNA from samples greatly enhances the ability to detect these microorganisms, enabling the identification and analysis of even trace levels of microbial DNA. This method, in combination with ultrapure reagents, is critical for the accurate extraction of microbial DNA and plays a crucial role in the molecular-based diagnosis of infectious agents directly from patient samples.

 **Reduces Background Noise**
MolYsis-SNplus™ IVD removes the overwhelming amount of host DNA that can interfere with the microbial analysis.

 **Improves Sequencing Efficiency**
 Host DNA depletion allows deeper sequencing coverage for microbial targets in human samples.


 **Contamination-free Workflows**
 Clean reagents and consumables reduce the risk of reagent-borne DNA contamination, which can lead to false-positive results, especially in highly sensitive applications like PCR or NGS.

 **Specificity in Sequencing**
 In NGS or Sanger sequencing, even trace amounts of contaminating DNA can affect the analysis. The use of DNA-free reagents ensures higher specificity, as the sequencing focus lies on the target DNA.

ORDER INFORMATION

MolYsis-SNplus™ IVD  <i>Automated human DNA depletion and pathogen DNA extraction directly from body fluids, swabs and tissues; Extraction control DNA included</i>	48 reactions	U-300-048
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Complementary Products for MolYsis-SNplus™ IVD

SelectNA™plus  <i>Benchtop instrument for host DNA depletion and pathogen DNA extraction</i>	1 unit	D-400-001
Pipette Tips <i>DNA-free pipette tips for use with SelectNA™plus instrument</i>	2x [2x 96] tips	D-925-024
	4x [2x 96] tips	D-925-048
	8x [2x 96] tips	D-925-096
Control PCR (for research use only) <i>Only for use with MolYsis-SNplus™ IVD. Internal extraction control assay for monitoring the correct function of the DNA extraction and purification process of MolYsis-SNplus™ IVD</i>	48 reactions	S-080-0048

MolYsis-SNplus™ IVD complies with the following European regulations:

Regulation (EU) 2017/746 on In Vitro Diagnostic Medical Devices (**IVDR**) (Risk Class A)

SelectNA™plus device complies with the following European directives and standards:

Directive 98/79/EC on In Vitro Diagnostic Medical Devices (**IVDD**); Regulation (EU) 2017/746 on In Vitro Diagnostic Medical Device Regulation (**IVDR**) (Risk Class A); 2014/35/EU Low Voltage Directive; 2014/30/EU Electromagnetic Compatibility (**EMC**) Directive

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

