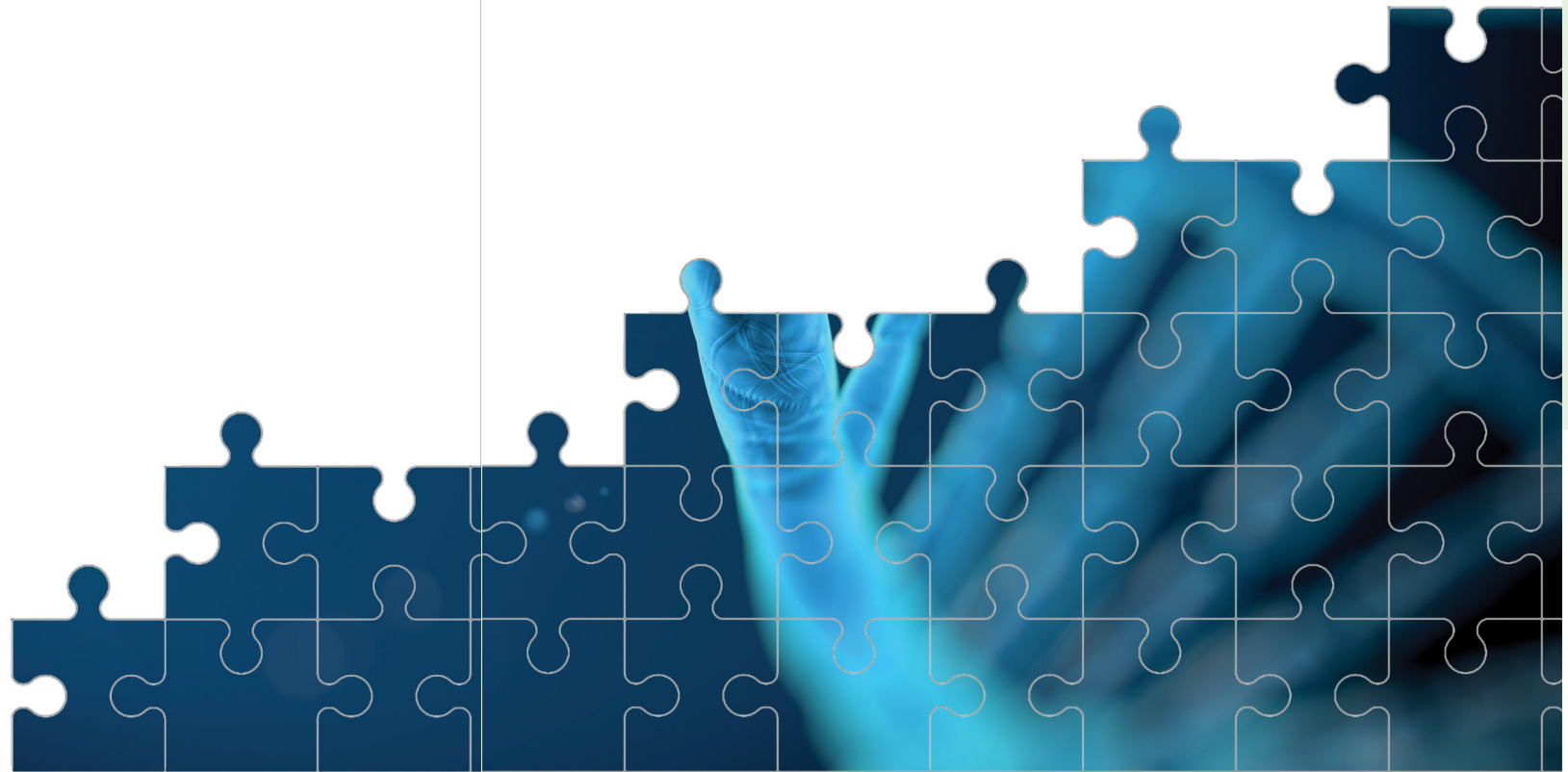




INTRODUCING MOLZYM



ABOUT US

Scientific rigor driving innovation since 2003

From CE IVD-marked broad-range molecular diagnostic kits, host DNA depletion technology, MolYsis™, to ultra-clean PCR reagents and assays, Molzym is one of the leading providers of culture-independent molecular solutions. Our technology enables the detection of microbes directly from body fluids, tissues, and swabs using PCR or NGS-based methods. Pathogens can be identified within hours, significantly improving the management of patients with rapid, pathogen-targeted antimicrobial therapy.

With a global distribution network, Molzym delivers high-quality products to researchers and clinical scientists worldwide, contributing to the fight against life-threatening microbial infections and anti-microbial resistances, the biggest global health threat.

OUR VISION

A brighter future, empowering diagnostic laboratories to provide physicians with the correct diagnostic information on infection-causing pathogens, rapidly and effectively, resulting in improved patient care.

OUR MISSION



To address technological gaps faced daily by clinical laboratories



To provide unique, high-quality molecular products



To enable molecular laboratory experts to reveal microbial DNA from clinical samples

MOLYSIS™ HOST DNA DEPLETION

MolYsis™ addresses the challenge that host DNA overwhelms the low amount of microbial DNA in complex clinical samples.

MolYsis™ is a unique host DNA depletion technology for the targeted enrichment and isolation of microbial DNA from body fluids, tissues or swabs. Host cells are selectively lysed and up to 99% of host DNA is depleted.

The greatly improved ratio of microbial to host DNA ensures highest sensitivities in subsequent analytical procedures.

- ✓ 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

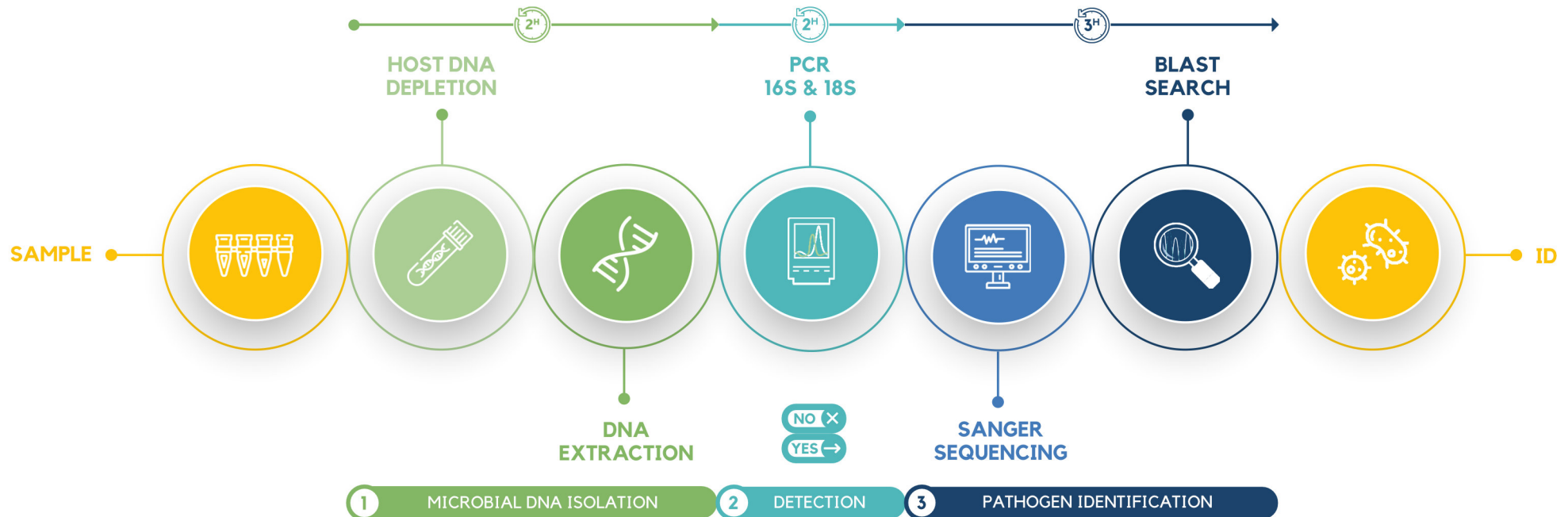
BROAD-RANGE PCR & PATHOGEN ID

Molzym's Molecular Diagnostic Test (MMDx™) is culture-independent and used to identify bacteria and fungi from various sample types in one protocol.

Our CE IVD marked molecular diagnostic solutions are based on a three-step workflow: MolYsis™ human DNA depletion and microbial DNA extraction, followed by 16S and 18S rDNA broad-range PCR, delivering a preliminary result after only 4 hours. Positive amplicons are then submitted to Sanger sequencing and BLAST analysis for pathogen identification.

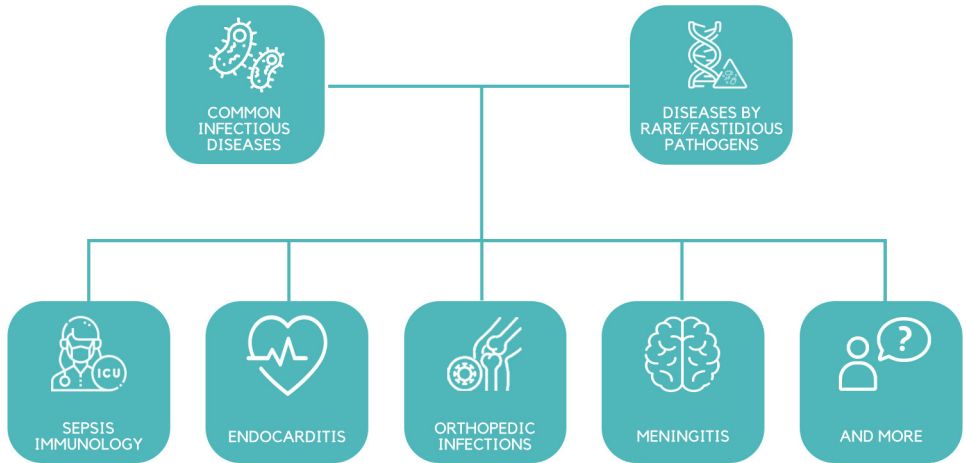
- 1300 Bacteria & fungi identified on species & genus level
- Diagnosis of true infections in culture-negative samples
- Reduced time-to-result compared to standard culture
- Diagnosis of infections in patients with prior antibiotic therapy or caused by rare or fastidious pathogens

OUR DIAGNOSTIC WORKFLOW



TARGETED INFECTIONS

The clinical utility of MMDx™ has been successfully evaluated in numerous clinical trials and for a wide range of applications:



EMPOWER CLINICAL PATIENT MANAGEMENT

MMDx™ contributes to optimize the treatment of patients with severe infections by increasing the positivity rate of samples and providing accurate results in a significantly shorter time:

Benefits of + results

x2 Pathogen ID in addition to standard culture¹

25% Of positive results lead to targeted anti-microbial therapy²

Benefits of - results

2nd Opinion to confirm true culture-negative results



Therapy discontinuation²

¹ Kühn et al., J Clin Microbiol 2011, 49:2919

² Marbjerg et al., Diagn Microbiol Infect Dis 2020, 22:115028

MMDx™ automated protocol: **Micro-Dx™**
 MMDx™ manual protocol: **SepsiTest™-UMD** 



UMD-Tubes



MolYsis™ Basic 5
 MolYsis-SelectNA™*plus*
 MolYsis™ Complete 5
 Ultra-Deep Microbiome Prep
 Ultra-Deep Microbiome Prep10
 SelectNA™ *plus* device



Mastermix 16S Complete
Mastermix 18S Complete
Mastermix 16S/18S Dye
MolTaq 16S/18S
Hot MolTaq 16S/18S
DNA-Free Water



Eubacterial Sequencing Primers
Panfungal Sequencing Primer



SepsiTest™ BLAST

Note: MMDx™ kits are CE IVD cleared in Europe – MMDx™ is not FDA cleared and not intended for diagnostic use in the US.
 MolYsis™, MMDx™, SepsiTest™, SelectNA™ and Micro-Dx™ are registered trademarks of Molzym.

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