MOLZYM PRODUCTS	MICROBIAL DNA EXTRACTION	DETECTION	PATHOGEN IDENTIFICATION
Micro-Dx™ C∈ IVD U-200-024 / U-200-048	Automated protocol — SelectNA™ plus instrument required  Body fluids, tissues and swabs up to 1 ml  Extraction control included	Broad-range 16S/18S PCR	Identification by Sanger sequencing and BLAST analyses
SepsiTest™-UMD (€ IVD U-010-024 / U-010-048	<b>Manual protocol</b> Body fluids, tissues and swabs up to <u>1 ml</u> * Extraction control included	assays and sequencing primer	

\*Add-on kit for up to 10 ml body fluids available

MolYsis SelectNA <sup>™</sup> plus D-450-048	Automated protocol — SelectNA™ <i>plus</i> instrument required Body fluids, tissues and swabs up to <u>1 ml</u>			
<b>MolYsis™ Basic5</b> D-301-050 / D-301-100	<b>Manual protocol</b> Body fluids up to <u>5 ml</u>	To be combined with other DNA isolation systems		
<b>MolYsis™ Complete5</b> D-321-050 / D-321-100	<b>Manual protocol</b> Body fluids up to <u>5 ml</u>		Eluates suitable for various analyses methods: custom PCR assays, broad-range PCR assays + Sanger sequencing, panel systems, hybridization assays, specific assays, NGS, etc.	
Ultra-Deep Microbiome Prep G-020-025 / G-020-050	Manual protocol Body fluids, tissues and swabs up to <u>1 ml</u> Manual protocol Body fluids, tissues and swabs up to <u>10 ml</u>			
Ultra-Deep Microbiome Prep10 G-030-025 / G-030-050				
Mastermix 16S Complete S-020-0100/0250/1000			DNA-free 16S rDNA Assay (incl. SYBR Green I) targeting bacterial DNA	Set of Eubacterial Seq Primers S-775-100
Mastermix 18S Complete S-070-0100/0250/1000	MolYsis™ kits recommended Optional: custom DNA extraction systems		DNA-free 18S rDNA Assay (incl. SYBR Green I) targeting fungal DNA	Panfungal Sequencing Primer S-785-100
Mastermix 16S Dye S-030-0100/0250/1000			DNA-free Mastermix (incl. SYBR Green I) for use with custom primers	
<b>Mastermix 16S Basic</b> S-040-0100/0250/1000			DNA-free Mastermix for use with custom primers or probes	

## DIAGNOSTIC WORKFLOW CENTRY









MOLZYM PRODUCTS

#### MOLYSIS™

Depletion of human DNA & isolation of bacterial & fungal DNA

# PCR 16S & 18S Amplification of bacterial & fungal DNA



PATHOGEN IDENTIFICATION
Sanger sequencing &
BLAST analysis

Micro-Dx™ (€ IVD

**Automated** 



Eluates are analyzed by broad-range 16S and 18S PCR assays



Up to 1300 bacteria and fungi identified on species and genus level

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SepsiTest™-UMD (€ IVD

Manual



# **RESEARCH WORKFLOW** RUO



MOLZYM PRODUCTS

#### **MOLYSISTM**

Depletion of human or animal DNA & isolation of bacterial & fungal DNA

#### **DETECTION & IDENTIFICATION OF BACTERIA & FUNGI**

Eluates can be used with a wide range of molecular methods

MolYsis-SelectNA™ plus

Automated



Molzym PCR assays + Sanger sequencing

(e.g. Mastermix 16S Complete, Mastermix 18S Complete, 16S/18S sequencing primer)

MolYsis™ Basic5

Prep & Prep10

+ custom DNA isolation

**Ultra-Deep Microbiome** 

MolYsis™ Complete5

Manual



## Metagomenic/Shotgun or Whole Genome Sequencing

(e.g. Library prep and NGS, Bio-IT)

Targeted / Amplicon sequencing

(e.g. amplicon of target, library prep and NGS of amplicons, Bio-IT)

## Various analyses methods

(e.g. custom PCR assays, Sanger sequencing, panel systems, hybridization assays, probes, specific assays...)

 $Micro-Dx^{TM}$  and  $SepsiTest^{TM}-UMD$  are CE IVD cleared in Europe and not for diagnostic use in the USA.

MolYsis-SelectNA<sup>™</sup>plus, MolYsis<sup>™</sup> Complete5, MolYsis<sup>™</sup> Basic5, Ultra-Deep Microbiome Prep Kits, Mastermix 16S Complete, Mastermix 18S Complete, Mastermix 16S Dye, Mastermix 16S Basic are for Research Use Only (RUO) and not for use in diagnostic procedures.