

INSTRUMENT FOR AUTOMATED HOST DNA DEPLETION & MICROBIAL DNA ISOLATION

The **SelectNA™plus** is the first automated benchtop instrument that fully combines **MolYsis™** host DNA depletion and microbial DNA isolation. The device is compatible with MolYsis™-based DNA extraction kits and validated for body fluids, swabs and tissue samples. The process utilizes an innovative vacuum-controlled technology for the depletion of host DNA and enrichment of pathogens followed by isolation of microbial DNA; an optimal solution for low load samples with only small amounts of microbial DNA. The controlled environment within the device is ideal for minimizing the risk of contamination from airborne sources and handling errors. The isolated DNA can be used for subsequent molecular analysis such as PCR, NGS or other methods.

KEY FEATURES



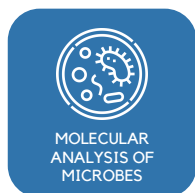
- ✓ Walk-away benchtop instrument
- ✓ Automated host DNA depletion (**MolYsis™** technology)
- ✓ Isolation of bacterial & fungal DNA
- ✓ Vacuum-driven DNA purification system
- ✓ Contamination-free reagents & plastics
- ✓ Ideally suited for culture-independent molecular analysis

TECHNICAL INFORMATION

Capacity	Flexible: up to 12 samples per run
Samples	Body fluids up to 1 ml, swabs, tissues
Dimensions	(H) 600 x (D) 690 x (W) 650 mm; with open door (H) 1000 mm
Power & Frequency	100-240 V, VAC 5A, 50-60 Hz
Weight	60 kg
Software	Embedded
Peristaltic Pump	4 lines; dispensing mode and accuracy +0%/-10%
Liquid Level Detection	Pressure monitoring system
DNA Purification	Column-based, vacuum-driven
Operator Interface	Control panel with display and control button
Decontamination	Integrated UV light
Consumables & Reagents	Free of microbial DNA contaminations
Manufacturer	Bee Robotics Ltd, UK

APPLICATION OVERVIEW

The analysis of microorganisms using molecular methods directly from clinical samples can be challenging. Host DNA often overwhelms the small amount of microbial DNA, which reduces the sensitivity of molecular detection methods such as PCR or NGS. With MolYsis™, host DNA is depleted in samples before DNA from intact microorganisms is extracted and purified. The efficient depletion of host DNA and the use of high pure reagents lead to increased detection of microorganisms even at very low loads. The use of the SelectNA™plus instrument in combination with MolYsis™ based DNA extraction kits is ideal for, but not limited to, the following applications:



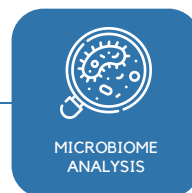
MOLECULAR
ANALYSIS OF
MICROBES



DETECTION OF
FASTIDIOUS/
UNCULTIVABLE
PATHOGENS



MONITORING
OF DISEASES



MICROBIOME
ANALYSIS



CONTAMINATION
TESTING

ORDER INFORMATION

SelectNA™plus CE IVD

Benchtop instrument for host DNA depletion and pathogen DNA extraction

1 unit

D-400-001

Kits to be used with the SelectNA™plus instrument:

Micro-Dx™ CE IVD Automated host DNA depletion and pathogen DNA extraction combined with broad-range PCR analysis directly from body fluids, swabs and tissues; Extraction control DNA included	24 reactions	U-200-024
	48 reactions	U-200-048
MolYsis-SNplus™ IVD* CE IVD Automated host DNA depletion and pathogen DNA extraction directly from body fluids, swabs and tissues; Extraction control DNA included	48 reactions	U-300-048
MolYsis-SelectNA™plus RUO Automated host DNA depletion and pathogen DNA extraction directly from body fluids, swabs and tissues	48 reactions	D-450-048
Pipette Tips DNA-free pipette tips for use with SelectNA™plus instrument	2x [2x 96] tips	D-925-024
	4x [2x 96] tips	D-925-048
	8x [2x 96] tips	D-925-096

The SelectNA™plus device and CE IVD kits comply with the following European directives and standards:

SelectNA™plus device: 98/79/EC In Vitro Diagnostic Medical Device Directive; EU 2017/746 In Vitro Diagnostic Medical Device Regulation (Risk Class A); 2014/35/EU Low Voltage Directive; 2014/30/EU Electromagnetic Compatibility (EMC) Directive;

Micro-Dx™: 98/79/EC In Vitro Diagnostic Medical Device Directive

MolYsis-SNplus™ IVD: EU 2017/746 In Vitro Diagnostic Medical Device Regulation (Risk Class A)

The SelectNA™plus device and CE IVD kits are intended for professional use.

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SelectNA™plus, Micro-Dx™ and MolYsis-SNplus™ IVD are CE IVD-marked in EU and not for diagnostic use in the USA. MolYsis-SelectNA™plus is for Research Use Only [RUO] and not for use in diagnostic procedures.

*The MolYsis-SNplus™ IVD kit will be available from July 2024.