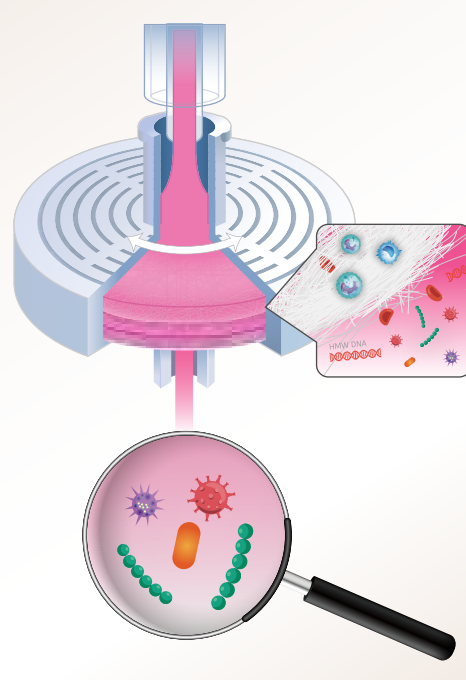


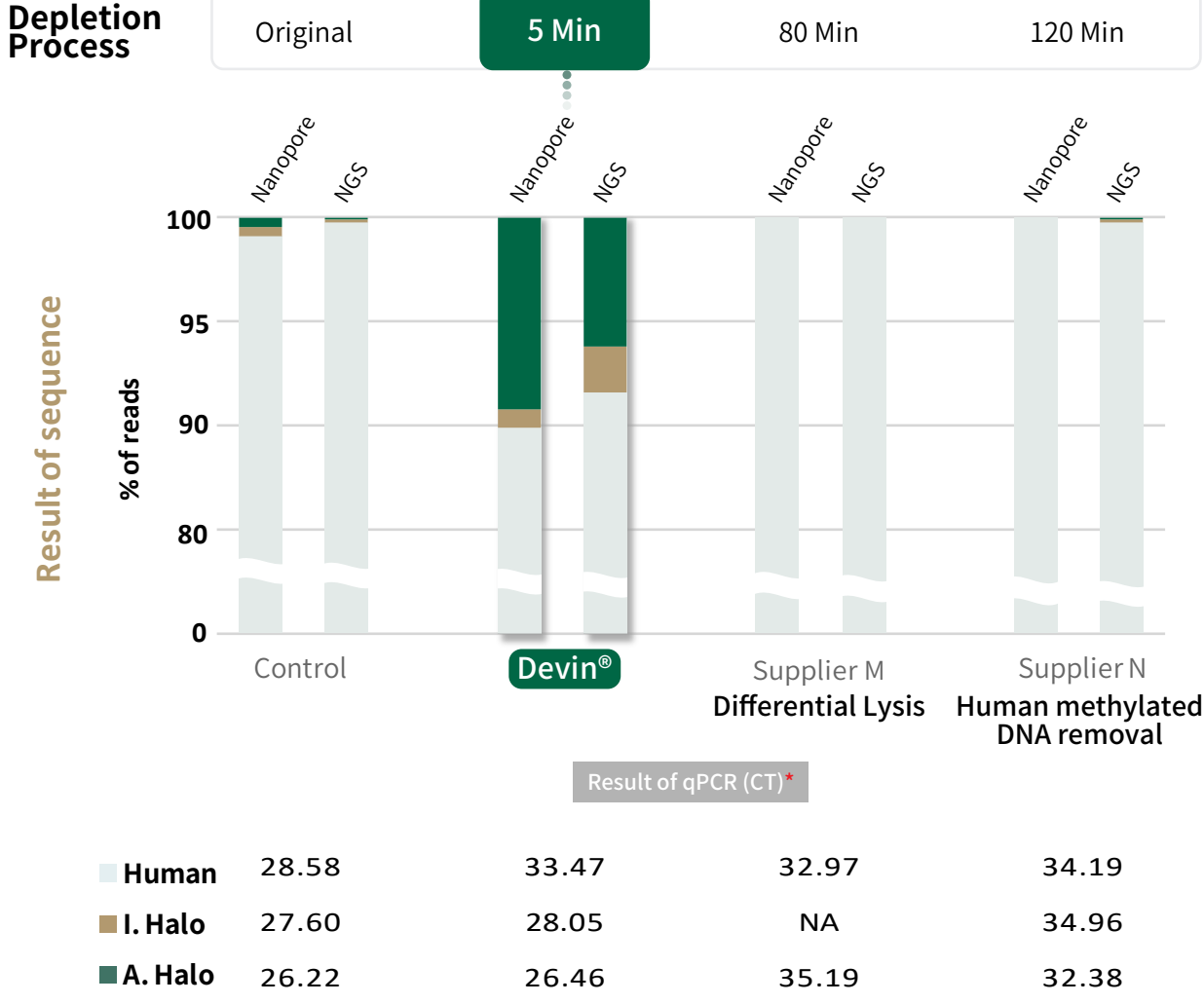
## Deplete 95% of Human Nucleated Cells in 5 Minutes

Devin® is disposable blood fractionation filter invented for wide use in clinical microbiology. It enables faster, more accurate and cost effective way to detect pathogens in human blood for further analysis such as genetic tests (DNA sequencing, PCR etc.), virusology, immunology and other applications.



## Comparison of Devin® and Other Human Depletion Methods

Devin® filter depletes 95% of white blood cells within just 5 minutes and has much higher percentage of reads in comparison with other depletion methods.



\*Results of human and microbial identification using qPCR, NGS and Nanopore. Human blood samples (5mL) were added 10\*4 Genome Copies/mL spike-in control from ZYMO Research and then processed using different depletion methods. Test results show that Devin® filter increases ratio of microbial DNA and decreases the ratio of human (host) DNA.

## What is PaRTI-Seq®

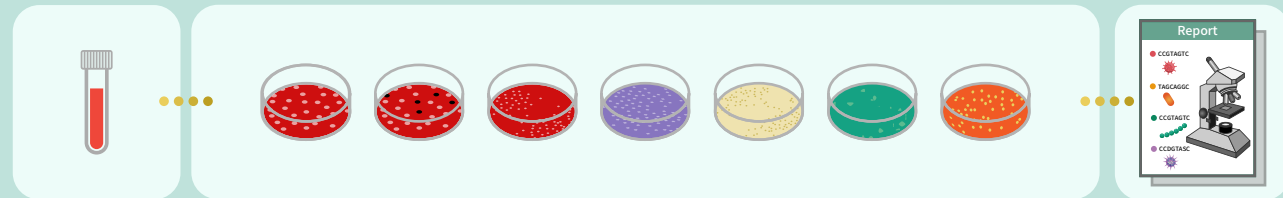
### Detect Pathogen Directly from Whole Blood within 24 Hours

Pathogen Real-Time Identification by Sequencing (PaRTI-Seq®) is Micronbrane's complete solution for rapid Pathogen Identification. Combining Devin® filter, optimized sample preparation method for next generation sequencing (NGS) and proprietary analytical methods, it provides precise test results within 24 hours.

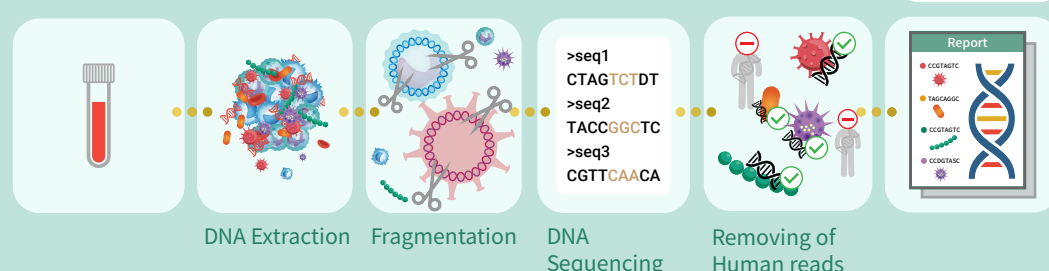


## How it Works

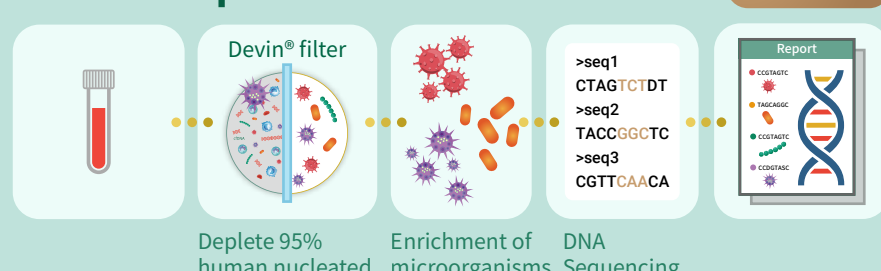
### Conventional Blood Culture



### mNGS



### PaRTI-Seq®



## Innovation

### Advantages of PaRTI-Seq® in Clinical Testings

	Conventional Blood Culture	mNGS	PaRTI-Seq® Micronbrane
<b>Turnaround Time</b>	2-7 days	1-2 days	24 hours <b>Accelerated</b>
<b>Positivity Rate</b>	20-30%	50-60%	80-90% <b>Accurate</b>
<b>Cost</b>	Low	High	Medium <b>Affordable</b>
		Can not avoid host interference	Avoid host interference by proprietary technique

### Specification

Use whole blood, plasma and other body fluids (serum, swabs and washed)	Volume range <10 mL	Sterility Sterile
Type syringe fractionation filter	Pore size / Diameter 15-20 µm / 25 mm	Shelf life 25°C , 1 year
Certification ISO 13485	Housing material Polypropylene	Packaging 24 per box
Inlet / Outlet Female luer-lock (clear) inlet/ male luer-lock (white) outlet	Filter material Non-woven fabric	



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