

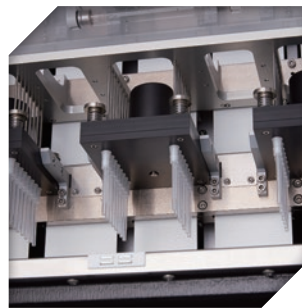


Taiwan
Advanced
Nanotech

Maelstrom™ 4800

REVOLUTIONIZING MAGNETIC BEAD HANDLING

Meet your demand for throughput



Patented Maelstrom Spin Mixing Technology

TANBead Maelstrom product embodies this novel technology and delivers improved performance for applications in molecular diagnostics and life sciences. Maelstrom Series are FDA and CE approved, and the patents are granted in the Canada, China, EU, Korea, Japan, Taiwan, and USA.



Fully Automated

- Simultaneous processing and purification of DNA, RNA samples
- Automation of complicated manual steps



Patented Whirl Stirring Mixing Technology

- Processing volume up to 1,600µl
- Spin tips stir magnetic beads at speeds up to 3000 rpm
- Effective prevention of aerosol cross contamination



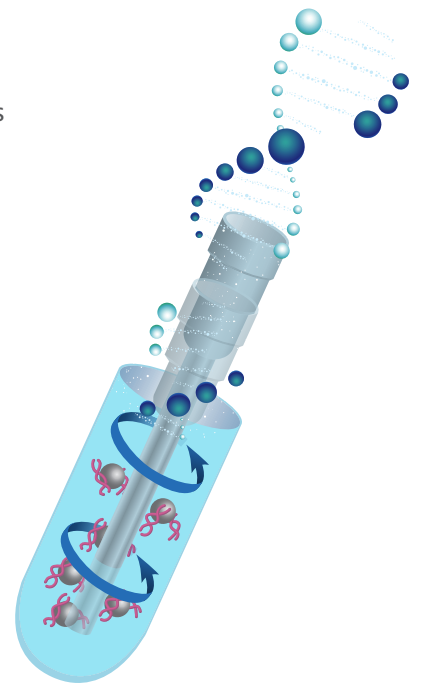
Easy Operation

- Intuitive user interface and easy menu navigation
- User-specified parameter settings



Time Saving

- 3,500 gauss magnetic rods efficiently collect magnetic beads
- High stirring efficiency with variable speeds for considerable time savings

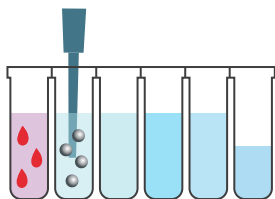


Principle of Nucleic Acid Extraction

● Sample ● Bead ● DNA

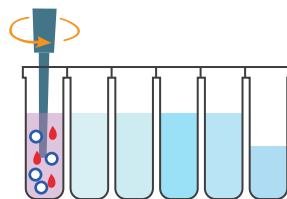
Step 1

Activate beads



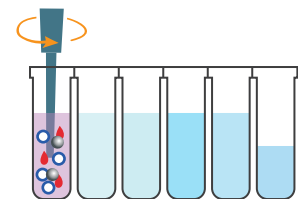
Step 2

Mix sample with Lysis Buffer



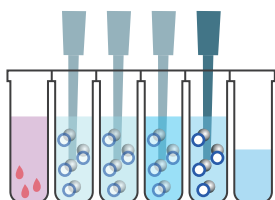
Step 3

Mix sample with beads



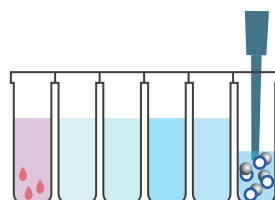
Step 4

Wash bead-DNA from #2 ~ #5 well



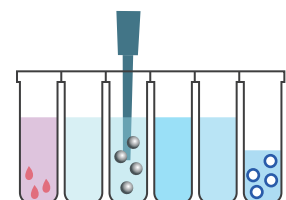
Step 5

Elute DNA






Step 6

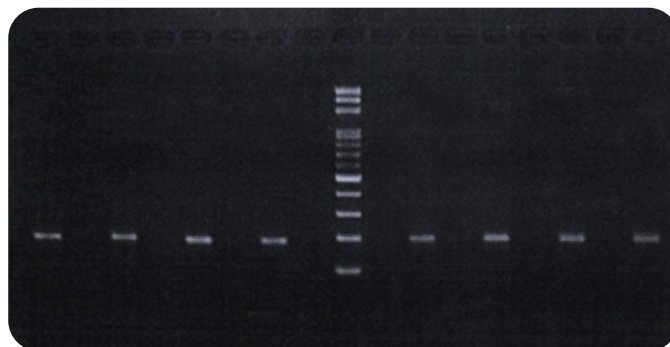
Release beads



Performance

- 
The coefficient of variation of nucleic acid extraction concentration is less than 5%
- 
High consistency
- 
No Cross-contamination to neighbor well
Experimental results ▶

1 2 3 4 5 6 7 8 M 9 10 11 12 13 14 15 16



Specification

Model	Maelstrom™ 4800
Run Time	25~60 min
Samples per run	Max 48 samples
Weight (NW)	45kg
Dimensions (WxDxH)	58x43x47cm
Power Supply	AC 100-240 V
Processing volume	50µl - 1,600µl
Magnetic Rod	>3,000 gauss
Spin Speed	up to 3,000 rpm
Temp control	2 set
Heating Block	Yes(12 article)
Heating	RT~130°C
UV Lamp	Yes
Display	7" touch screen

Patents

USA	US09616398B2
EU	EP2937136
Canada	CA2862946
Japan	JP6151735B2
Korea	10-1696517
China	CN104971638B
Taiwan	TWI526245B

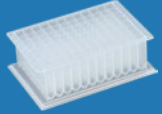
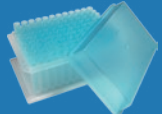
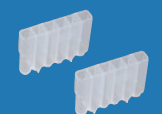
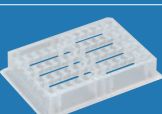

Reagent kits

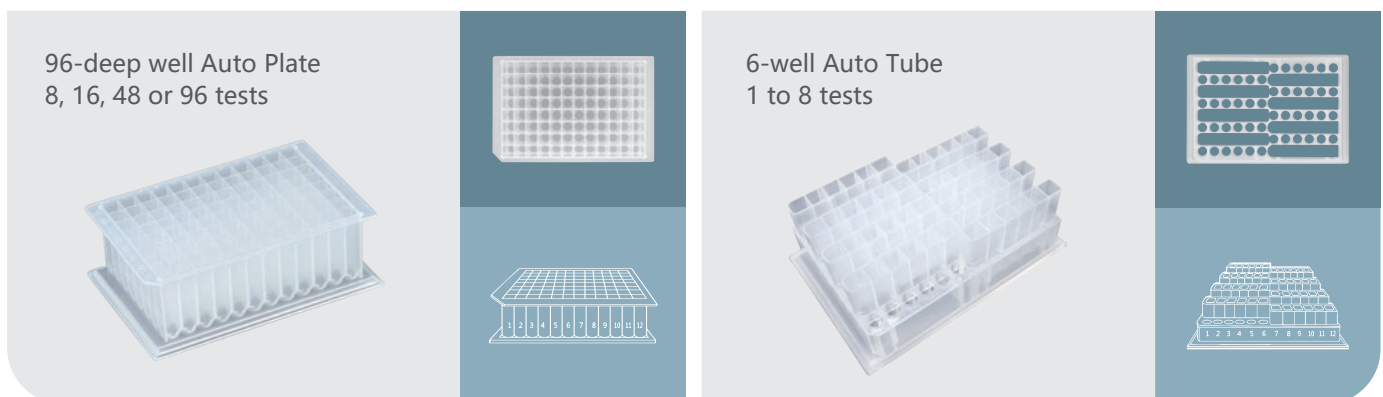
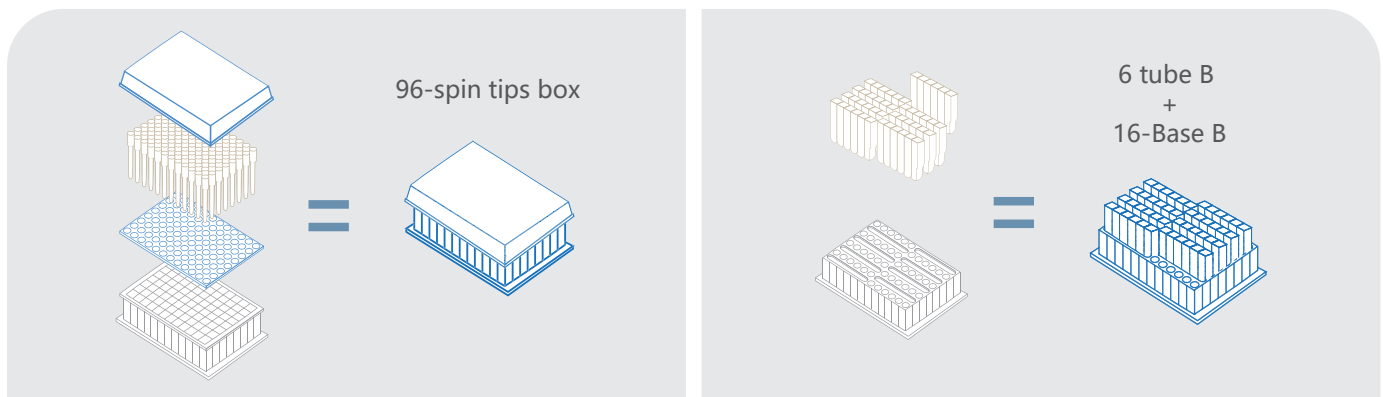
Scan QR code for more reagents ▶



Sample	Target	Test	Kits Format	Ordering No.
Blood	Total DNA	96	Auto Plate	301128
Plant	Genomic DNA	96	Auto Plate	301371
FFPE	Total DNA	96	Auto Plate	301152
Viral	Viral OptiPure DNA / RNA	96	Auto Plate	301148
Tissue	Genomic DNA	96	Auto Tube	301131
Fungi	Genomic DNA	96	Auto Plate	301150
Gram Bacteria	Bacteria Total DNA	96	Auto Plate	301138

Consumables

Images	Product Name	Format	Description	Ordering No.
	96 deep well plate	Auto Plate	<ul style="list-style-type: none"> Processing volume 50µl-1,600µl Widely use for molecular diagnostics 	083.MWP01.20X
	96-spin tips box	Auto Plate	<ul style="list-style-type: none"> 96 pcs of Medium (pen-shape) spin tips in one box 	083.MSP01.20X
	6 tube B	Auto Tube	<ul style="list-style-type: none"> Special Package for single or small number of tests Minimal consumable waste No reagent loss 	104143
	16-Base B	Auto Tube	<ul style="list-style-type: none"> Incorporate with 6 tube B for small number of tests 	104026
	Spin tips	Auto Plate Auto Tube	<ul style="list-style-type: none"> A unique design to maximum mixing efficiency 	104157



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2021-02