



Taiwan
Advanced
Nanotech

Maelstrom™ 8 Autostage

**FULLY AUTOMATED
AND PORTABLE
NUCLEIC ACID EXTRACTION**

Revolutionizing Magnetic Bead Handling



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

- Eliminate human errors , ensure quality consistency
- An open system for a broad range of magnetic bead-based reagent kits



Patented Whirl Stirring Mixing Technology

- Processing volume up to 1,500 µl
- Spin tips stir magnetic beads at speeds up to 3000 rpm



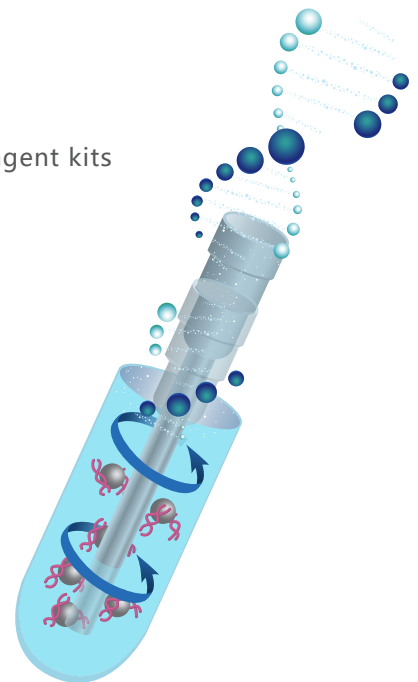
Easy Operation

- Intuitive user interface and easy menu navigation
- Data exchange via USB connected with laptop
- A portable device that can be used from lab to field



Time Saving

- 3,000 gauss magnetic rods efficiently collect magnetic beads
- Automation of complicated manual steps



Operating procedures



◀ Mix



◀ Collect



◀ Pause

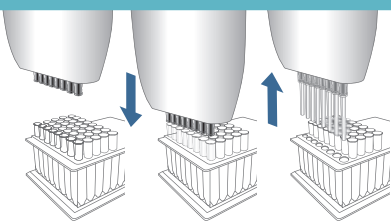


◀ Vapor

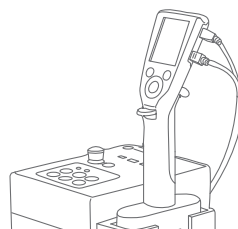


◀ Finish

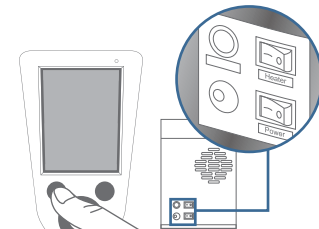
Mount the "Spin tips"



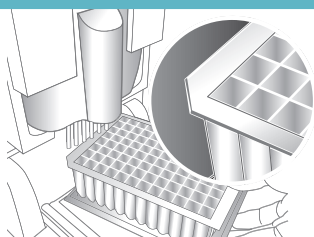
Connect Maelstrom 8 Handler and Autostage via transmission cable



Turn on Maelstrom 8 and the Autostage sequentially



Place reagent kits on the plate holder properly



Select "Guide" and the program by pressing "Enter Key"



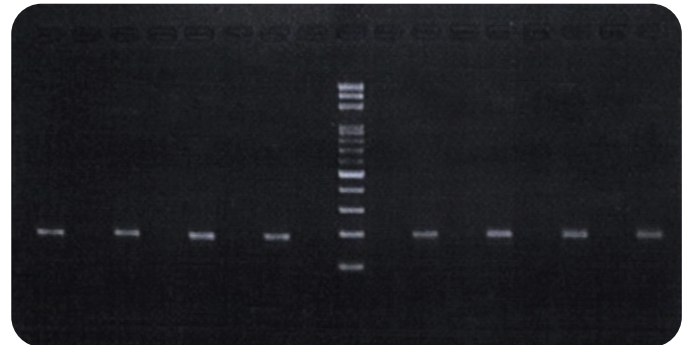
A "check" mark will be appeared on the screen when program is completed



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™ 8
Run Time	25~60 min
Samples per run	8 samples per run
Weight (NW)	600 g
Dimensions (WxDxH)	11.2x6.3x32.7 cm
Power Supply	5 V , 2 A
Battery	3.7 V , 2,850 mAh
Charging Plug	micro-USB
Processing volume	50 µl - 1,500 µl
Magnetic Rod	> 3000 gauss
Spin Speed	up to 3000 rpm
Display	2.4"LCD, 240 x 320pixels

Model	Autostage
Weight (NW)	9.6 kg
Dimensions (WxDxH)	35.7x19x28.5 cm
Power Supply	19 Vac, 120 W
Temp control	1 set
Heating Block	Yes (1 pcs)
Heating	RT~110°C

Patents

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

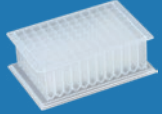
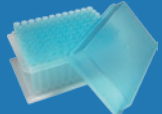
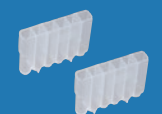
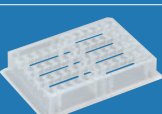

Reagent kits

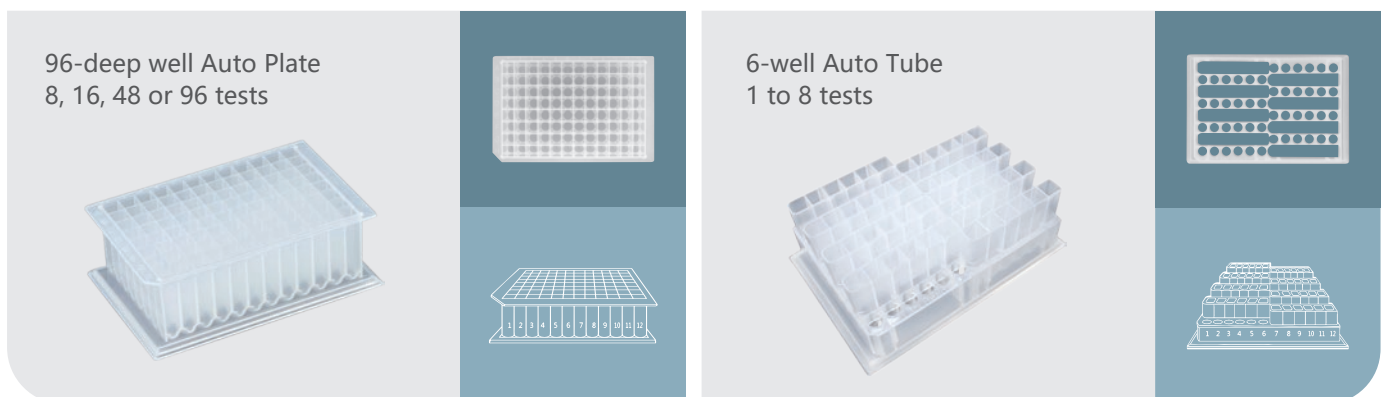
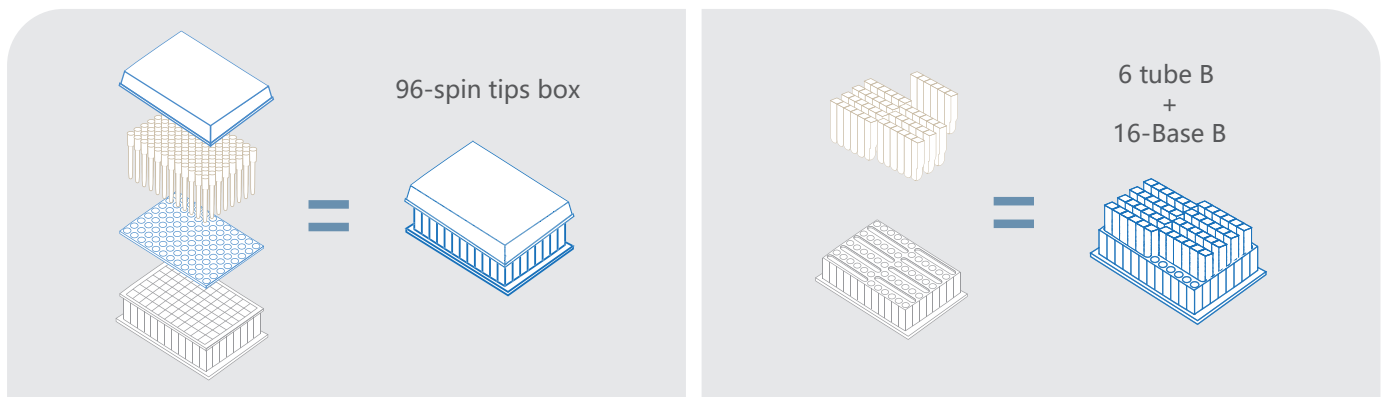
Scan QR code for more reagents ▶



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 50 µl-1,600 µl 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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