



Taiwan  
Advanced  
Nanotech

# Maelstrom™ 8 Autostage

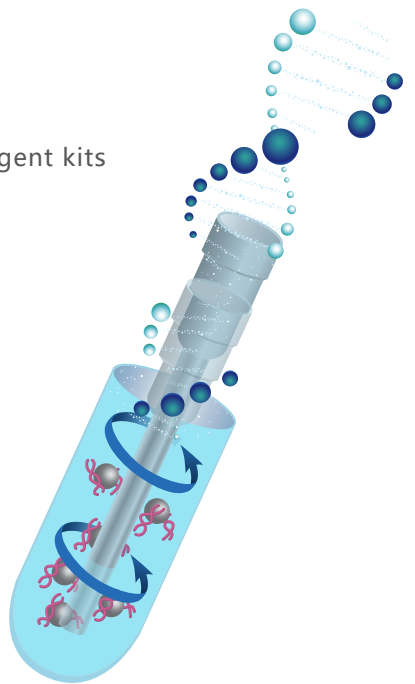
**FULLY AUTOMATED  
AND PORTABLE  
NUCLEIC ACID EXTRACTION**

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

- 2,500 gauss magnetic rods efficiently collect magnetic beads
- Automation of complicated manual steps

## Operating procedures



◀ Mix



◀ Collect



◀ Pause

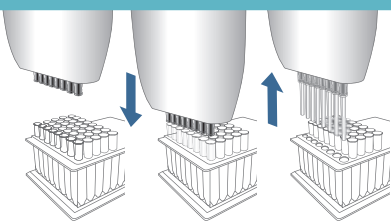


◀ Vapor

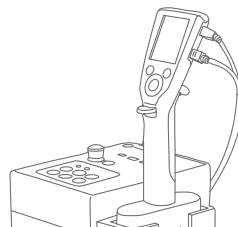


◀ Finish

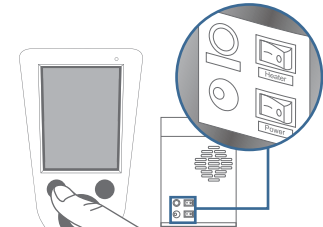
### Mount the "Spin tips"



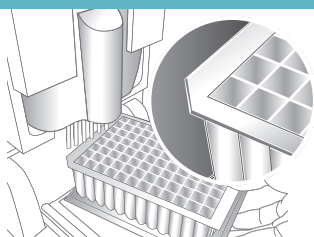
### Connect Maelstrom 8 Handler and Autostage via transmission cable



### 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"



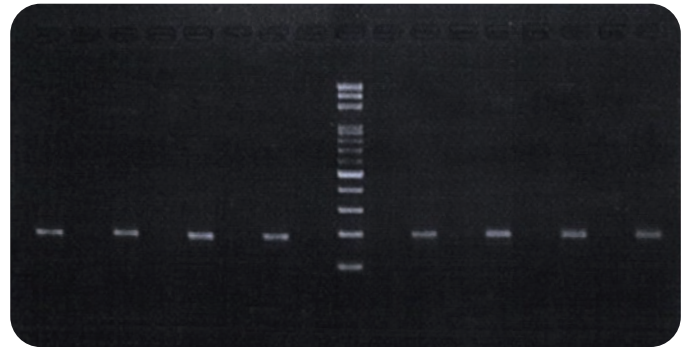
### A "check" mark will be appeared on the screen when program is completed



## 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	1-8 samples
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	Ø2.0mm, 2,500 gauss
Spin Speed	500~3,000 rpm
Display	2.4" TFT LCD

Model	M8-H Autostage
Weight (NW)	8.33 kg
Dimensions (WxDxH)	19x30.5x31 cm
Power Supply	19 V, 6.32 A 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

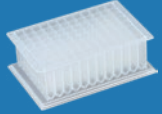
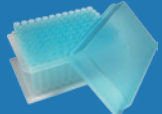
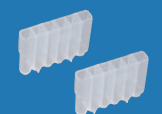
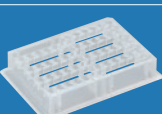

Scan QR code for more reagents ▶

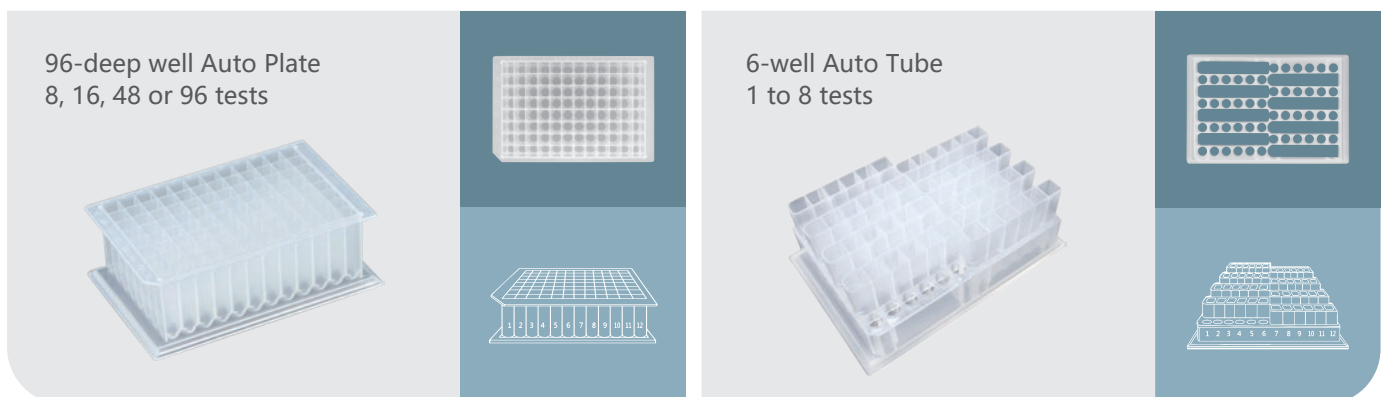
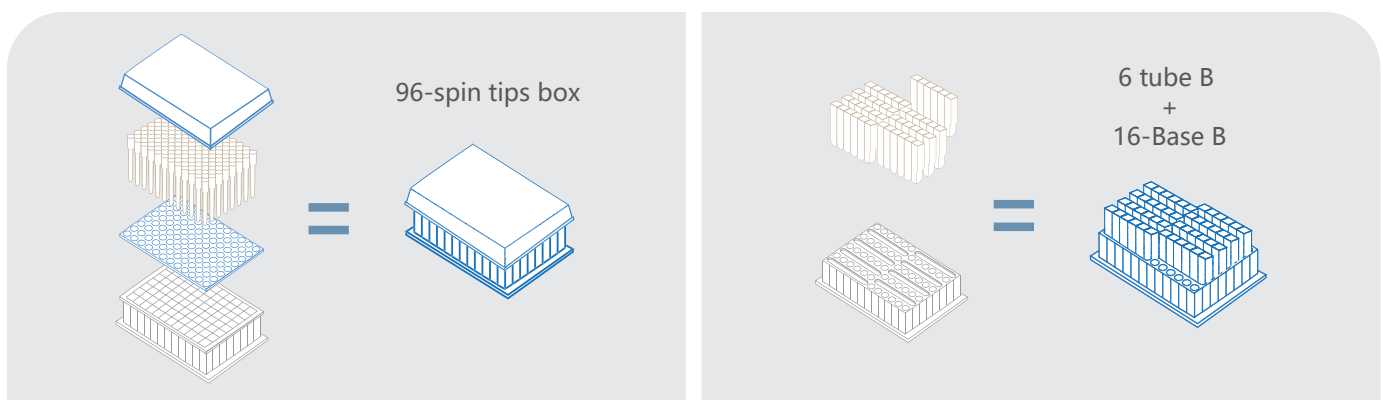


Sample	Target	Test	Kits Format	Ordering No.
Blood	Total DNA	96	Auto Plate	301128
Plant	Genomic DNA	96	Auto Plate	301134
Rice	Genomic DNA	48	Auto Tube	301137
cfDNA	cfDNA	96	Auto Tube	301155
FFPE	Total DNA	96	Auto Plate	301152
Viral	Viral OptiPure DNA / RNA	96	Auto Plate	301148
Tissue	Total DNA	96	Auto Tube	301133
Fungi	Genomic DNA	96	Auto Plate	301150
Forensic	Total DNA	96	Auto Tube	301285
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"> <li>Processing volume 50 µl-1,600 µl</li> <li>Widely use for molecular diagnostics</li> </ul>	083.MWP01.20X
	96-spin tips box	Auto Plate	<ul style="list-style-type: none"> <li>96 pcs of Medium (pen-shape) spin tips in one box</li> </ul>	083.MSP01.20X
	6 tube B	Auto Tube	<ul style="list-style-type: none"> <li>Special Package for single or small number of tests</li> <li>Minimal consumable waste</li> <li>No reagent loss</li> </ul>	104143
	16-Base B	Auto Tube	<ul style="list-style-type: none"> <li>Incorporate with 6 tube B for small number of tests</li> </ul>	104026
	Spin tips	Auto Plate Auto Tube	<ul style="list-style-type: none"> <li>A unique design to maximum mixing efficiency</li> </ul>	104157



Taiwan Advanced Nanotech

[www.tanbead.com](http://www.tanbead.com)

10F., No. 95, Xinpu 6th Street., Taoyuan Dist., Taoyuan City 330, Taiwan

T. +886-3-3167568 F. +886-3-3173369 E. [success@tanbead.com](mailto:success@tanbead.com)

2020-08 V1.0