

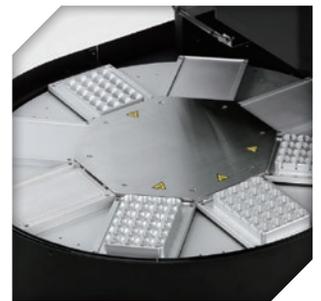


Taiwan
Advanced
Nanotech

Maelstrom™ 2400

REVOLUTIONIZING MAGNETIC BEAD HANDLING

Maximize Throughput and Eliminate
Cross-contamination



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
- Streamlined collecting and mixing steps save your time and effort
- Independent temperature control modules ensure stability of purification performance



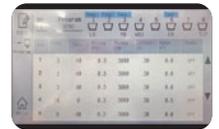
Patented Whirl Stirring Mixing Technology

- Processing volume up to 10,000µl
- 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
- Parameters can be fine-tuned based on experimental requirements



Time Saving

- High-throughput: 24 samples can be processed simultaneously
- High stirring efficiency with variable speeds for considerable time savings

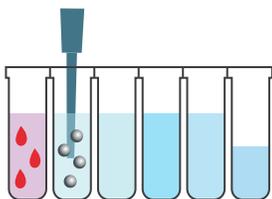


Principle of Nucleic Acid Extraction

● Sample ● Bead ● DNA

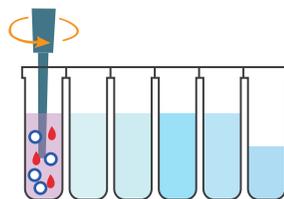
Step 1

Activate beads



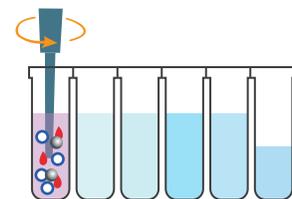
Step 2

Mix sample with Lysis Buffer



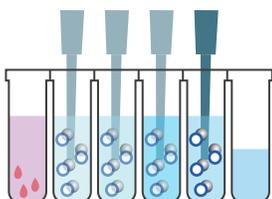
Step 3

Mix sample with beads



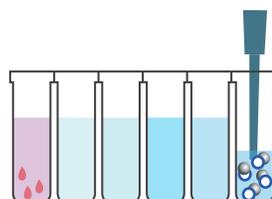
Step 4

Wash bead-DNA from #2 ~ #5 well



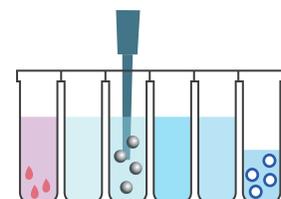
Step 5

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 ▶



Specification

Model	Maelstrom™ 2400
Run Time	25~60 min
Samples per run	Max 24 samples
Weight (NW)	130kg
Dimensions (WxDxH)	87x57.5x77cm
Power Supply	AC 220-240 V
Processing volume	100µl - 10,000µl
Magnetic Rod	>4,000 gauss
Spin Speed	up to 3,000 rpm
Temp control	4 set
Heating Block	Yes (4 pcs)
Heating	RT~130°C
UV Lamp	Yes
Display	7" touch screen

Patents

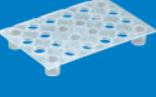
USA	US09616398B2
EU	EP2937136
Canada	CA2862946
Japan	JP6151735B2
Korea	10-1696517
China	CN104971638B
Taiwan	TWI526245B

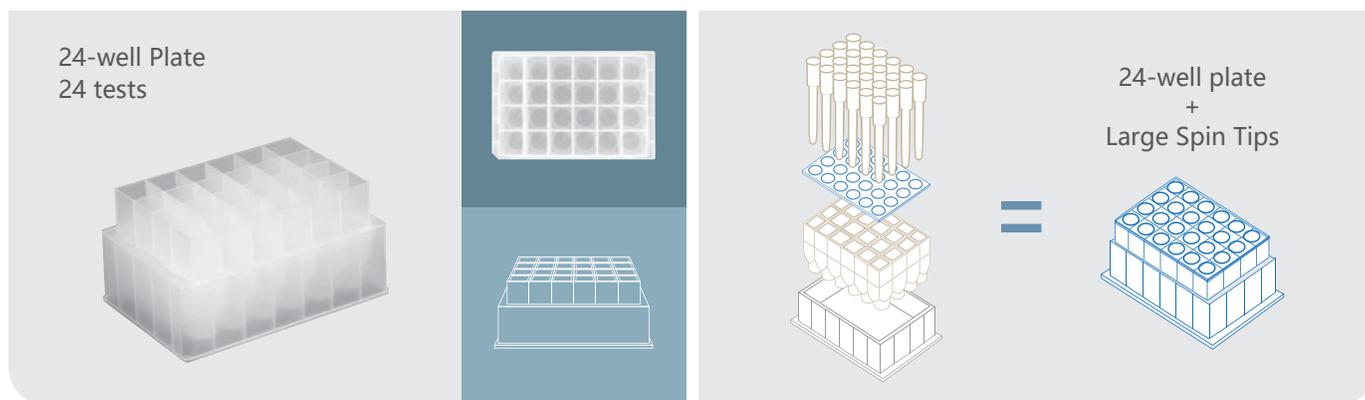
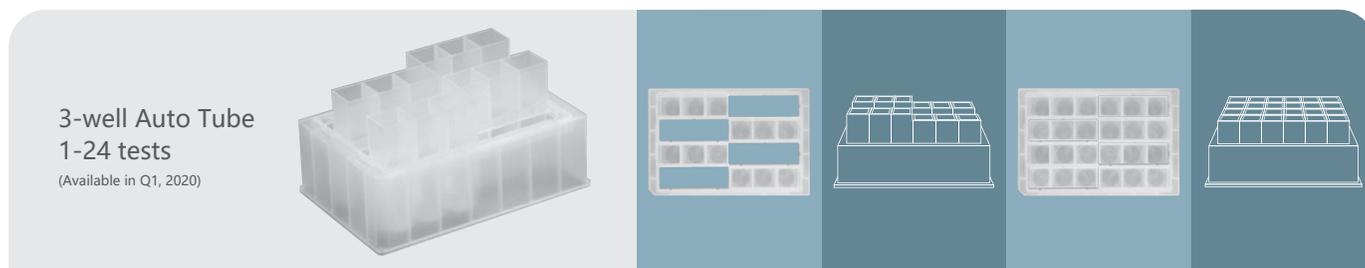
Reagent kits

* For Reagent kits order please contact TANBead

Sample	Description	Test	Reference No.	Ordering No.
cfDNA	TANBead OptiPure cfDNA Auto Kit	48	L91C045	301411

Consumables

Images	Product Name	Format	Description	Ordering No.
	24-well plate Adapter	Auto Plate	<ul style="list-style-type: none"> Incorporate with 24-well plate for number of tests 	104147
	24-well plate	Auto Plate	<ul style="list-style-type: none"> Design for large sample volume process Processing volume 100µl-10mL 	104148
	3-well Auto Tube	Auto Tube	<ul style="list-style-type: none"> Special Package for single or small number of tests Minimal consumable waste 	104149
	Deep-well Lv Adapter	Auto Tube	<ul style="list-style-type: none"> Incorporate with 3-well Auto Tube for small number of tests 	104150
	Spin tip holder	Auto Plate Auto Tube	<ul style="list-style-type: none"> Incorporate with Large Spin Tips for number of tests 	104142
	Large Spin Tips (Cone shape)	Auto Plate Auto Tube	<ul style="list-style-type: none"> A unique design to maximum mixing efficiency With special edges to increase the turbulence and efficiency while processing large volumes. 	104141



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