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Maelstrom[™] 4810 ____

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

- >3,900 gauss magnetic rods efficiently collect magnetic beads
- High stirring efficiency with variable speeds for considerable time savings

Principle of Nucleic Acid Extraction

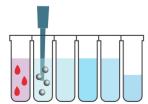






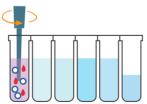
Step 1

Activate beads



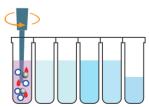
Step 2

Mix sample with Lysis Buffer



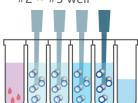
Step 3

Mix sample with beads



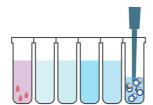
Step 4

Wash bead-DNA from #2 ~ #5 well



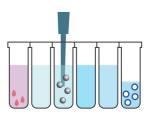
Step 5

Elute DNA



Step 6

Release beads



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Performance

The coefficient of variation of nucleic acid extraction concentration is less than 5%



High consistency



No Cross-contamination to neighbor well Experimental results

$1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8 \quad \mathsf{M} \quad 9 \quad 10 \ 11 \ 12 \ 13 \ 14 \ 15 \ 16$



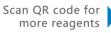
Specification

Model	Maelstrom™ 4810		
Weight	Approx. 45 kg		
Dimensions	58(L)x43(W)x47(H)cm		
Power rating	AC 100-AC 240 V		
Fuse	250V, 5A		
Max. Throughput	48 samples per run		
Process. volume	50 μl ~ 1,600 μl		
Spin speed	up to 3,000 rpm		
Heater	12 independent heating blocks		
Magnetic rod	>3900 gauss		
Display	7-inch touchscreen		
UV	UV-C type, 8 W		
НЕРА	E 10 class		

Patents

USA	US09616398B2
EU	EP2937136B1
Canada	CA2862946
Japan	JP6151735B2
Korea	KR101696517B1
China	CN104971638B
Taiwan	TWI526245B

Reagent kits

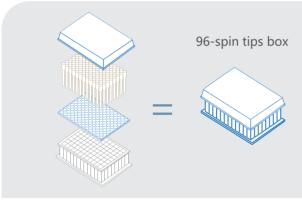


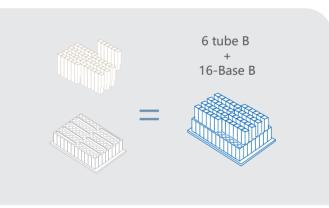


Sample	Description	Test	Reference No.	Ordering No.
Blood	TANBead Blood DNA Auto Plate	96	M611A46	301126
Plant	TANBead Plant DNA Auto Plate	96	M613A46	301134
cfDNA	TANBead OptiPure cfDNA Auto Plate	96	M61CA46	301385
FFPE	TANBead OptiPure FFPE DNA Auto Plate	96	M61PA46	301152
Virus	TANBead OptiPure Viral Auto Plate	96	M665A46	301148
Tissue	TANBead Tissue DNA Auto Plate	96	M612A46	301130
Fungi	TANBead Fungi DNA Auto Plate	96	M61FA46	301150
Forensic	TANBead Forensic DNA Auto Plate	96	M6TFA46	301424
Bacteria	TANBead Gram Bacteria DNA Auto Plate	96	M61GA46	301138
Stool	TANBead Stool Cell DNA Auto Plate	96	M6SCA46	301387
Pathogen	TANBead STIs Extraction Auto Plate	96	M6STA46	301414

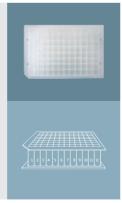
Consumables

Images	Product Name	Format	Description	Ordering No.
Communication of the Communica	96 deep well plate (Unique hook design)	Auto Plate	 Processing volume 50μl-1,600μl Widely use for molecular diagnostics 	083.CSM01.203
	96-spin tips box (Unique hook design)	Auto Plate	 96 pcs of Medium(pen-shape) spin tips in one box 	083.MSP09.10X
	6 tube B	Auto Tube	 Special Package for single or small number of tests Minimal consumable waste No reagent loss 	104143
	16-Base B	Auto Tube	Incorporate with 6 tube B for small number of tests	104026
1	Spin tips	Auto Plate Auto Tube	A unique design to maximum mixing efficiency	056.CSM03.111

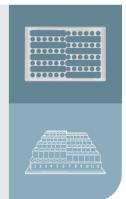














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