TAN Bead

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Maelstrom[™] 4800LH_____

REVOLUTIONIZING MAGNETIC BEAD HANDLING

Easily Integrated into Liquid Handling Workstations







Maelstrom[™] 4800LH Series Features

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.



Integrated Platform

- Well-proportioned design for workstation
- Communications protocol compatibility



Patented Whirl Stirring Mixing Technology

- \bullet Processing volume up to 1,600 μl
- 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

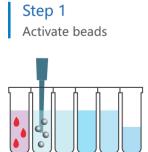


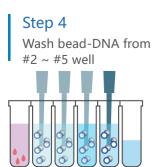
Time Saving

- High-throughput: 48 samples can be processed simultaneously
- High stirring efficiency with variable speeds for considerable time savings

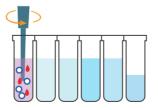
Principle of Nucleic Acid Extraction

Sample Sead ODNA

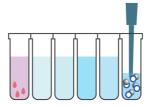




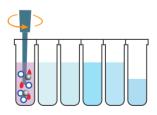
Step 2 Mix sample with Lysis Buffer



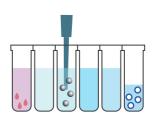
Step 5 Elute DNA







Step 6 Release beads



MaelstromTM 4800LH Series Features

Performance



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

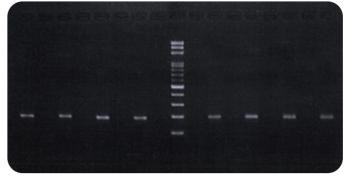


High consistency



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 [™] 4800LH	
Run Time	25~60 min	
Samples per run	48 samples	
Weight (NW)	26kg	
Dimensions (WxDxH)	54.5x28x29cm	
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(2 pcs)	
Heating	RT~130°C	
Display	TFT LCD	

Patents

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

Case Reference

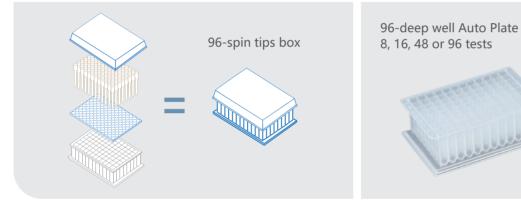
TANBead M4800 LH automated nucleic acid extraction system is integrated in the TECAN's machine to achieve automated integration system.



MaelstromTM 4800LH Series Features

Consumables

Images	Product Name	Format	Description	Ordering No.
Constanting of the second	96 deep well plate	Auto Plate	 Processing volume 50μl-1,600μl Widely use for molecular diagnostics 	083.MWP01.20X
	96-spin tips box	Auto Plate	 96 pcs of Medium(pen-shape) spin tips in one box 	083.MSP01.20X
	Spin tips	Auto Plate Auto Tube	 A unique design to maximum mixing efficiency 	104157





Taiwan Advanced Nanotech

www.tanbead.com

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