VICTORY SCIENTIFIC

TAN Bead

Maelstrom™ 9610/4810

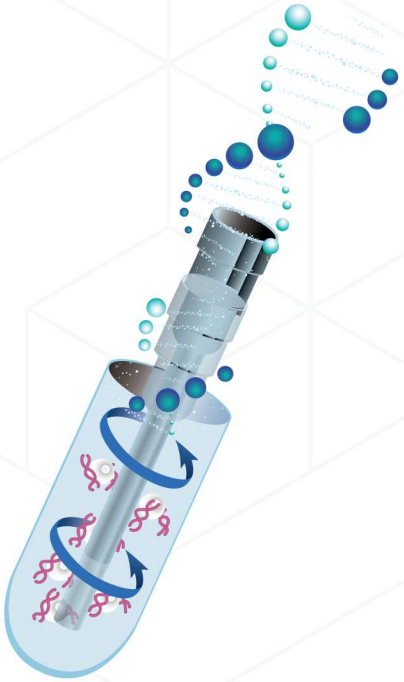
Move away from complicated and time-consuming workflows and benefit from TANBead automated extraction solutions for processing multiple samples simultaneously.

ISO CE IVD FDA NMPA CFDA

victoryscientific.com

OPERATION PRINCIPLE

TANBead automated extraction uses magnetic rods to collect and transfer magnetic beads and rotating spin tips efficiently mix the suspension. Purified nucleic acids can be obtained after cell lysis, nucleic acids absorption, wash and elution.



MAELSTROM™ 9610 & 4810 KEY BENEFITS

FULLY AUTOMATED

- Simultaneous processing and purification of DNA/RNA samples.
- Automation of complicated manual steps.
- Independent temperature control modules ensure the stability of purification performance.

ELIMINATE CROSS-CONTAMINATION

- Unlike other techniques, the mixing technology uses a rotary apparatus to control the speed and avoid liquid splashing during extraction.

INCREASE PROCESSING VOLUME UP TO 60%

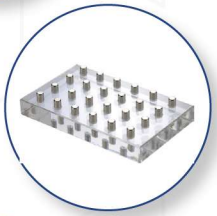
- Compared to conventional up and down binding techniques, the patented whirl spin mixing technology can increase the processing volume by 60% 1600µl.

EASY OPERATION

- Intuitive user interface and easy-to-navigate menu.
- Parameters can be fine-tuned based on experimental requirements.

SIMPLE INSTALLATION & MAINTENANCE

- No need for tools – simply power on the instrument, and it is ready to use.
- Pre-loaded extraction programs. Select the program required, follow the simple guide for the appropriate reagent, and the unit is ready to go.



TIME-SAVING

- Medium to High-throughput: 96 samples can be processed simultaneously for the Maelstrom 9610 and 48 samples for the Maelstrom 4810.
- High stirring efficiency with variable speeds for considerable time savings.
  The rotary mixing technology reduces the extraction time by shortening the time for lysis and increasing the chance of the magnetic beads contacting and absorbing nucleic acid.

OPEN SYSTEM DESIGN

- Enables the use of other magnetic bead technology reagents to absorb nucleic acid by editing a program through the touch panel to run alternative kits.

MAELSTROM™ 9610 SPECIFICATIONS VS KEY COMPETITORS

Brand Name	TANBead	King Fisher	Roche	Perkin Elmer
Model Name	Maelstrom 9610	King Fisher Flex 96	MagNA Pure 96 System	Chemagic™ 360
# of Samples per run	6-96	96	96	96
Run Time	15 - 60 min	> 60 min	50 - 90 min	< 60 min
Processing Volume	50µL ~ 1,600 µL	50µL to 1,000µL (96 deep-well plate)	50µL to 1,000µL (up to 4ml for Plasma sample)	10µL to 400µL
Mixing Methodology	Patented spin-mixing	Up-and-down	Up-and-down	Rotation
Purification Technology	Magnetic Beads	Magnetic Beads	Magnetic Beads	Magnetic Beads
Pre-filled Reagent	Yes	No	Yes	No
Protocol editing	Yes	Closed System	Closed System	Closed System
Heating	RT ~ 130°C	5˚C ~ 115°C	20˚C ~ 100°C	No
UV Lamp	Yes	No	Yes	No
HEPA	Yes	No	No	No
WxDxH(cm)	87 x 70 x 57.5 cm	68 × 38 × 60	136 x 81.5 x 100	80 x 80 x 90
Weight(kg)	95 kg	28 kg	235kg	140kg
Communication	RS232	RS232	USB, LAN10/100/1000 Base T, LAN 10/100 Base	
Power	220-240V, 110V	100–240V VAC, 50/60Hz	100 to 125 V (–15%, +10%) 200 to 240 V (-15%, +10%)	230V

MAELSTROM™ 4810 SPECIFICATIONS VS KEY COMPETITORS

Brand Name	TANBead	Promega	Roche
Model Name	Maelstrom 4810	Maxwell® RSC 48 Instrument	MagNA Pure 48 System
# of Samples per run	16/ 32/ 48	1- 48	48
Run Time	15 - 60 min	30–70 min	run in < 60 min
Sample Volume	50µL ~ 1,600 µL	Depends on the sample type	50µL to 1,000µL (up to 4ml for Plasma sample)
Mixing Methodology	Patented spin-mixing	Up-and-down	Up-and-down
Pre-filled Reagent	Yes	Yes, Prefilled Cartridges	Yes
Protocol editing	Yes	Closed	Closed
Heating	RT ~ 130°C		Yes, 20˚C ~ 100°C
UV Lamp	Yes	Yes	Yes
HEPA	Yes	No	No
WxDxH(cm)	58 x 47 x 43 cm	53.3 × 50.8 × 31.8	136 x 81.5 x 100
Weight(kg)	45 kg	31.75 kg	235kg
Communication	USB	USB	USB, LAN10/100/1000 Base T, LAN 10/100 Base
Power	110-240V	100–240V AC, 50/60Hz; autosensing; 4 Amps	100 to 125 V (–15%, +10%) 200 to 240 V (-15%, +10%)

PRE-FILLED REAGENT KITS CONVENIENT & SIMPLE:

The reagent kits are pre-dispensed in sealed plates/tubes, reducing pipetting steps and simplifying the workflow. The pre-filled plate/tube cover just peels off, the specimen is added to the lysis plate and loaded onto the instrument for simplicity and convenience.

VICTORY SCIENTIFIC

PO Box 307 | Sewell, NJ 08080
cs@victoryscientific.com
(856) 530-9990
victoryscientific.com