EzMate Automated Pipetting System

Liquid Handling Partner for Increasing Productivity





Liquid Handling Partner for Increasing Productivity

EzMate automated pipetting system series is ideal for routine low volume pipetting, and helps eliminate tedious pipetting and human error, which enables more precise and standardized results to improve productivity.

With highly-customized adapters and application-oriented software, EzMate can satisfy the various needs of assays, including PCR/qPCR set up, sample normalization, NGS preparation, and reagent kit manufacturing methods.









Easy-to-use system setup software without need of additional technical support



Accuracy and Precision

Each Automated Pipetting Module (APM) is calibrated using ISO-8655 standards



High Flexibility and Capacity

- Single, 4- and 8-channel, 50 μl or 200 μl automated pipetting modules
- 6 interchangeable standard microplate/tip rack adapters and 2 interchangeable reagent vessel adapters



Exceptional Safety

UV lamp and HEPA filter meet the need of high-contamination assays



Temperature-Sensitive Sample Protection

Active cooling and heating module (ACHM) options for sensitive samples/reagents



Open Labware

Customized adapters support various types of labware. Fully compatible with a variety of consumables on the market

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Accuracy and Precision

- Excellent serial dilution results for qPCR standard curve and replicates (Figure 1)
- Better precision and pipetting results than manual pipetting (Figure 2)

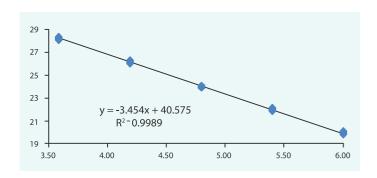
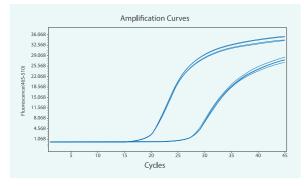
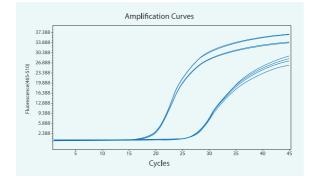


Figure 1: Excellent Serial Dilution Results

PCR efficiency = 94.77%

A 10 μ l synthetic DNA sample is diluted in 30 μ l water at an 1:4 ratio. Roche® LightCycler® 480 real-time thermal cycler and Finnzyme DyNAmo™ Flash SYBR® Green qPCR Kit (F-415L) were used.





EzMate 401 : Ct std dev = 0.135

Manual pipetting: Ct std dev = 0.145

Figure 2: Better Precision than Manual Pipetting

Target: Human GAPDH (top curve) was amplified in replicates of 4.18 μ l (master-mix) and 2 μ l (cDNA) were pipetted into a 20 μ l reaction volume. Roche® LightCycler® 480 real-time thermal cycler and Invitrogen™ Platinum Taq DNA Polymerase were used.

Performance of Automated Pipetting Module (APM)

50 µl tip on single or 8-channel pipetting module

200 µl tip on single or 8-channel pipetting module

	1 μΙ	50 μl
Accuracy (Rel.)	± 7%	± 1%
Precision (Rel. CV)	≤ 7.5%	≤ 0.4%

	10 μΙ	200 μΙ
Accuracy (Rel.)	± 3%	± 0.8%
Precision (Rel. CV)	≤ 1%	≤ 0.15%

Note: According to ISO-8655 standards (Gravimetric method), APM is calibrated in a temperature (21 - 25 $^{\circ}$ C, \pm 0.5 $^{\circ}$ C) and humidity (60-90%) controlled environment. Twice-distilled water, robotic tips and microbalance were used.

Applications

Widely used in a variety of laboratory methods, including PCR/qPCR set up, NGS preparation, Sample normalization, Reagent kit manufacturing, Cell-based assay, etc. Learn more application notes at **www.arisebio.com.tw**

Exceptional Safety for High-Contamination Application

The UV modules and HEPA filters ensure effective workable decontamination and provide clean air pressure throughout the workflow.







UV Lamp		
Irradiation Period Per Run	15 min	
Irradiation Capacity	$> 40 \ \mu W/cm^2$	
Wavelength	254 nm (UV-C)	

HEPA Filters		
3M Air-Mate HEPA Filter x2		
> 200 L/min		

Temperature-Sensitive Sample Protection

Optional Active Cooling / Heating Module (ACHM) includes a control box, allows temperature adjustment from 4-70 °C, thus protecting sensitive samples and reagents.

ACHM Control Box		
Setting Range	4 - 70 °C	
Max. Heating Rate	5 °C / min at RT =22 °C	
Max. Cooling Rate	2 °C / min at RT =22 °C	
Available Position	R1 / A / C Areas	



EzTips

EzTip pipette tips are fully compatible with EzMate Automated Pipetting System Series. Available pipetting volume with 2 types, ranges from 1 μ l to 50 μ l and 10 μ l to 200 μ l. All EzTips are certified free from DNase/RNase, protease and pyrogen, suiting the needs of various methods.





	EzTip 50 μl	EzTip 200 μl	
Volume	1 - 50 μl	10 - 200 μl	
Sterile	•	•	
With Filter	•	•	
Applications	genomics applications, PCR preparation, genomics applications, drug discovery, E Normalization, NGS library preparation, pooling cell experiment, serial dilutions		
Packaging Format	5 Packs / Cs		

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Choose the System That Suits Your Needs -









Model	401 4-position	601 6-position	401s 4-postion & UV / HEPA	601s 6-position & UV / HEPA
Worktable Capacity				
SBS Format Area	2-3	2 - 5	2-3	2 - 5
Tip Rack Area	1 - 2	1 - 4	1-2	1 - 4
Reagent Area	2	2	2	2
Automated Pipetting Module	Interchangeable 1 / 4 / 8-channel, Maximun volume 50 μl / 200 μl		Interchangeable Maximun volun	1 / 4 / 8-channel, ne 50 μl / 200 μl
UV / HEPA	N/A	N/A	•	•
Active Cooling / Heating Module (ACHM)	N/A	N/A	Optional	Optional
Function				
Liquid (Sample / Reagent) Transfer (LT)	•	•	•	•
Multiple Dispense (MD)	•	•	•	•
Serial Dilution (SD)	•	•	•	•
Hold (Pause)	•	•	•	•
Mixing (MIX)	•	•	•	•
Loop	•	•	•	•
Geneal				
Connection	RS-232, USB 3.0 / 2.0		RS-232, USB 3.0 / 2.0	
Power Supply	100 - 240 V, 50	/ 60 Hz, 100 W	100 - 240 V, 50	/ 60 Hz, 100 W
Size (W x D x H)	590 x 450 x 470 mm	740 x 450 x 470 mm	660 x 450 x 490 mm	810 x 450 x 490 mm
Weight (N.W.)	25 kg	29 kg	31 kg	35 kg
ACHM Control Box Size (W x D x H)	N/A	N/A	240 x 300 x 230 mm	240 x 300 x 230 mm
ACHM Control Box Weight (N.W.)	N/A	N/A	2 kg	2 kg

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Ordering Information

Ordering information ————————————————————————————————————			
Catalog No.	Description		
EzMate 401 Autor	nated Pipetting System		
AREZ401-100000	4-postion Automated Pipetting System, 15.6" Notebook Computer and EzStarter control software.		
EzMate 601 Autor	nated Pipetting System		
AREZ601-100000	6-postion Automated Pipetting System, 15.6" Notebook Computer and EzStarter control software.		
EzMate 401s Auto	mated Pipetting System		
EZ4SU00-100000	4-position Automated Pipetting System with UV & HEF Computer and EzStarter control software	PA, 15.6" Notebook	
EZ4SUA0-100000	4-position Automated Pipetting System with UV & HEF Active Cooling / Heating module, 15.6" Notebook Com EzStarter control software		
EZ4SUAC-100000	4-position Automated Pipetting System with UV & HEF Active Cooling / Heating module, 15.6" Notebook Con EzStarter control software	PA and 3-position aputer and	
EzMate 601s Auto	mated Pipetting System		
EZ6SU00-100000	6-position Automated Pipetting System with UV & HER Computer and EzStarter control software	PA, 15.6" Notebook	
EZ6SUA0-100000	6-position Automated Pipetting System with UV & HEI Active Cooling / Heating module, 15.6" Notebook Con EzStarter control software		
EZ6SUAC-100000	6-position Automated Pipetting System with UV & HEF Active Cooling / Heating module, 15.6" Notebook Com EzStarter control software		
Robotic Tips			
T00-EZAR13-00	EzTip 50 μl, filter, sterile,1 case	===	
T00-EZAR14-00	EzTip 200 μl, filter, sterile,1 case		
Interchangeable A	Automatic Pipetting Modules (APM)		
275-ezar01-21	1-channel, 50 μl Pipetting Module for EzTip	A	
275-ezar03-21	1-channel, 200 μl Pipetting Module for EzTip	Color Color	
275-ezar02-31	8-channel, 50 μl Pipetting Module for EzTip	A	
275-ezar04-21	8-channel, 200 μl Pipetting Module for EzTip	S	
275-ezar05-10	4-channel, 50 μl Pipetting Module for EzTip		
275-ezar06-10	4-channel, 200 μl Pipetting Module for EzTip	99	
Accessories - Tip R	tack Adapter		
275-ezar21-00	96 tips rack adapter		
275-ezar21-10	Tip rack adapter/w lock		
Accessories - Plate	e Adapter		
275-ezar22-00	Elevated 96-well PCR plate adapter	1	
275-ezar75-00	96-well conical bottom adapter		
275-ezar23-00	Elevated 384-well PCR plate adapter	M	
275-ezar76-00	Elevated ELISA / cell culture adapter	T	
275-ezar24-00	Deep well plate adapter		
275-ezar78-00	Illumina 48-well plate adapter	I	

Accessories - Tube Adapter 275-ezar68-00 0.5 ml tube adapter for 20 well adapter 275-ezar26-00 4 x 2 1.5 ml tubes adapter 275-ezar27-00 3 x 8-strip tubes adapter 275-ezar74-00 20-well x 1.5 ml Adapter 275-ezar74-00 48-well x 1.5 ml Adapter 275-ezar74-00 3 x 15 ml reservoir adapter 275-ezar72-00 3 x 15 ml reservoir adapter 275-ezar73-00 Disposable 15 ml reservoir x 9 pcs 275-ezar73-00 Disposable 80 ml reservoir x 20 pcs Accessories - Reservoir Labware 275-ezar49-00 Disposable 80 ml reservoir x 20 pcs Accessories - Cool Block Adapter 275-ezar39-00 CoolBlock 96 adapter for 96-well PCR plates 275-ezar31-00 CoolBlock 820 adapter for 384-well PCR plates 275-ezar31-00 CoolBlock R10 adapter for 3 x 2 2 ml storage tubes and 1 x 5 ml bottle 275-ezar37-00 CoolBlock R20 adapter for 20-well x 1.5 ml tubes Accessories - Tip Tray 275-ezar37-00 Disposable used tip tray x 10 sets Accessories - HLA Typing Adapter 275-ezar60-00 HLA Typing 96-well Terasaki Tray Adapter 275-ezar60-00 HLA Typing 96-well Terasaki Tray Adapter 275-ezar60-00 R1 Active Cooling / Heating Adapter (Optional) 275-ezar60-00 R1 Active Cooling / Heating Adapter (Optional)	Catalog No.	Description	
275-ezar27-00 3 x 2 2 ml storage tubes and 1 x 5 ml bottle adapter 275-ezar40-00 20-well x 1.5 ml Adapter 275-ezar40-00 20-well x 1.5 ml Adapter 275-ezar40-00 48-well x 1.5 ml Adapter 275-ezar40-00 3 x 15 ml reservoirs adapter 275-ezar47-00 80 ml reservoir adapter 275-ezar47-00 Disposable 15 ml reservoir x 9 pcs 275-ezar49-00 Disposable 80 ml reservoir x 20 pcs Accessories - Cool Block Adapter 275-ezar49-00 CoolBlock 96 adapter for 96-well PCR plates 275-ezar30-00 CoolBlock 810 adapter for 4 x 2 1.5 ml tubes 275-ezar34-00 CoolBlock R10 adapter for 384-well PCR plates 275-ezar35-00 CoolBlock R20 adapter for 3 x 2 2 ml storage tubes and 1 x 5 ml bottle 275-ezar37-00 CoolBlock 20 adapter for 20-well x 1.5 ml tubes 275-ezar37-00 CoolBlock 20 adapter for 20-well x 1.5 ml tubes 275-ezar37-00 Disposable used tip tray x 10 sets Accessories - HLA Typing Adapter 275-ezar60-00 HLA Typing 96-well Terasaki Tray Adapter 275-ezar60-00 R1 Active Cooling / Heating Adapter (Only for 401s / 601s) 275-ezar79-00 R1 Active Cooling / Heating Adapter (Optional)	Accessories - Tube	Adapter	
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Accessories - Active Cooling/Heating Adapter (only for 401s / 601s) 275-ezar79-00 R1 Active Cooling / Heating Adapter (Optional)		,, ,	FIT
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and the second s	Accessories - Activ	e Cooling/Heating Adapter (only for 401s / 601s)	-de
275-ezar80-00 R2 Active Cooling / Heating Adapter	275-ezar79-00	R1 Active Cooling / Heating Adapter (Optional)	1111
	275-ezar80-00	R2 Active Cooling / Heating Adapter	1000
275-ezar81-00 96-well PCR plate Active Cooling / Heating Adapter	275-ezar81-00	96-well PCR plate Active Cooling / Heating Adapter	The same of the sa
275-ezar82-00 384-well PCR plate Active Cooling / Heating Adapter	275-ezar82-00	384-well PCR plate Active Cooling / Heating Adapter	TO S
275-ezarA4-00 20-well tube Active Cooling / Heating Adapter	275-ezarA4-00	20-well tube Active Cooling / Heating Adapter	THE

Specifications are subject to change without prior notice.

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