EzMate Automated Pipetting System

Liquid Handling Partner for Increasing Productivity





www.arisebio.com.tw

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.



Simple Operation

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

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- 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

UV

Exceptional Safety

UV lamp and HEPA filter

high-contamination assays

meet the need of

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Temperature-Sensitive Sample Protection

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



EzMate 601s



Open Labware

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

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)

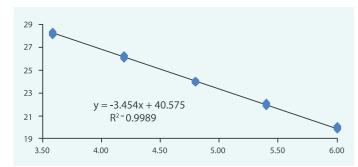
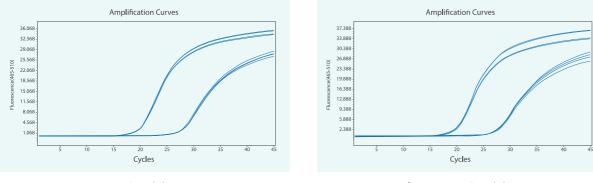


Figure 1: Excellent Serial Dilution Results

PCR efficiency = 94.77%

A 10 μl synthetic DNA sample is diluted in 30 μl 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 µl (master-mix) and 2 µl (cDNA) were pipetted into a 20 µl reaction volume. Roche® LightCycler® 480 real-time thermal cycler and Invitrogen™ Platinum Tag 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 µl	50 μl		10 µl	200 μl
Accuracy (Rel.)	± 7%	±1%	Accuracy (Rel.)	± 3%	± 0.8%
Precision (Rel. CV)	≤ 7.5%	≤ 0.4%	Precision (Rel. CV)	≤ 1%	≤ 0.15%

Note: According to ISO-8655 standards (Gravimetric method), APM is calibrated in a temperature (21 - 25 °C, ± 0.5 °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/gPCR 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 μ W/cm ²		
Wavelength	254 nm (UV-C)		

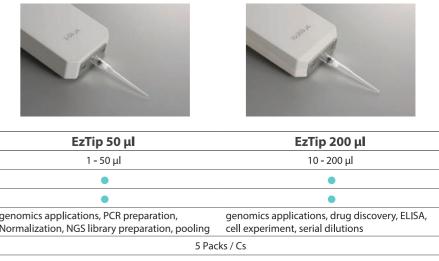
Temperature-Sensitive Sample Protection

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 µl to 50 µl and 10 µl to 200 µl. All EzTips are certified free from DNase/RNase, protease and pyrogen, suiting the needs of various methods.



	EzTip 50 μl
Volume	1 - 50 μl
Sterile	•
With Filter	•
Applications	genomics applications, PCR preparation Normalization, NGS library preparation,
Packaging Format	

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



Choose the System That Suits Your Needs -







Model	401 4-position	601 4-position	401s 6-position & 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 1 / 4 / 8-channel, Maximun volume 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	



Ordering Information

Catalog No.	Description	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" Noteboo EzStarter control software.	k Computer and		
EzMate 401s Auto	mated Pipetting System			
EZ4SU00-100000	4-position Automated Pipetting System with UV & HEPA, 15.6" Notebook Computer and EzStarter control software			
EZ4SUA0-100000	4-position Automated Pipetting System with UV & HEPA and 2-position Active Cooling / Heating module, 15.6" Notebook Computer and EzStarter control software			
EZ4SUAC-100000		4-position Automated Pipetting System with UV & HEPA and 3-position Active Cooling / Heating module, 15.6" Notebook Computer and EzStarter control software		
EzMate 601s Auto	mated Pipetting System			
EZ6SU00-100000	6-position Automated Pipetting System with UV & HEF Computer and EzStarter control software	A, 15.6" Notebook		
EZ6SUA0-100000	6-position Automated Pipetting System with UV & HEF Active Cooling / Heating module, 15.6" Notebook Com EzStarter control software			
EZ65UAC-100000 6-position Automated Pipetting System with UV & HEPA and 3-position Active Cooling / Heating module, 15.6" Notebook Computer and Ez5tarter 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 /	Automatic Pipetting Modules (APM)			
275-ezar01-21	1-channel, 50 μl Pipetting Module for EzTip	1		
275-ezar03-21	1-channel, 200 μl Pipetting Module for EzTip	C. all		
275-ezar02-31	8-channel, 50 μl Pipetting Module for EzTip	-		
275-ezar04-21	8-channel, 200 μl Pipetting Module for EzTip	and the second s		
275-ezar05-10	4-channel, 50 μl Pipetting Module for EzTip			
275-ezar06-10	4-channel, 200 μl Pipetting Module for EzTip	-		
Accessories - Tip F	tack Adapter			
275-ezar21-00	96 tips rack adapter	0		
275-ezar21-10	Tip rack adapter/w lock			
Accessories - Plate	Adapter			
275-ezar22-00	Elevated 96-well PCR plate adapter	N=		
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	Im		
275-ezar24-00	Deep well plate adapter			
275-ezar78-00	Illumina 48-well plate adapter	I		
		N		

Catalog No.	Description	
Accessories - Tube	•	
275-ezar68-00	0.5 ml tube adapter for 20 well adapter	1
275-ezar26-00	4 x 2 1.5 ml tubes adapter	A A A A A A A A A A A A A A A A A A A
275-ezar27-00	3 x 2 2 ml storage tubes and 1 x 5 ml bottle adapter	
275-ezar74-00	3 x 8-strip tubes adapter	19-11
275-ezar40-00	20-well x 1.5 ml Adapter	
275-ezarA5-00	48-well x 1.5 ml Adapter	
Accessories - Reserv	voir Adapter	
275-ezar72-00	3 x 15 ml reservoirs adapter	
275-ezar47-00	80 ml reservoir adapter	P
Accessories - Reserv	voir Labware	
275-ezar73-00	Disposable 15 ml reservoir x 9 pcs	
275-ezar49-00	Disposable 80 ml reservoir x 20 pcs	
Accessories - Cool E	Block Adapter	
275-ezar30-00	CoolBlock 96 adapter for 96-well PCR plates	
275-ezar31-00	CoolBlock 384 adapter for 384-well PCR plates	
275-ezar34-00	CoolBlock R10 adapter for 4 x 2 1.5 ml tubes	1111
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	P.S.P.B.
Accessories - Tip Tra	ау	
275-ezar51-00	Disposable used tip tray x 10 sets	
Accessories - HLA T	yping Adapter	
275-ezar66-00	HLA Typing 60 & 72-well Terasaki Tray Adapter	N
275-ezar67-00	HLA Typing 96-well Terasaki Tray Adapter	' '
Accessories - Active	Cooling/Heating Adapter (only for 401s / 601s)	
275-ezar79-00	R1 Active Cooling / Heating Adapter (Optional)	
275-ezar80-00	R2 Active Cooling / Heating Adapter	
275-ezar81-00	96-well PCR plate Active Cooling / Heating Adapter	
275-ezar82-00	384-well PCR plate Active Cooling / Heating Adapter	
275-ezarA5-00	20-well tube Active Cooling / Heating Adapter	all the

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