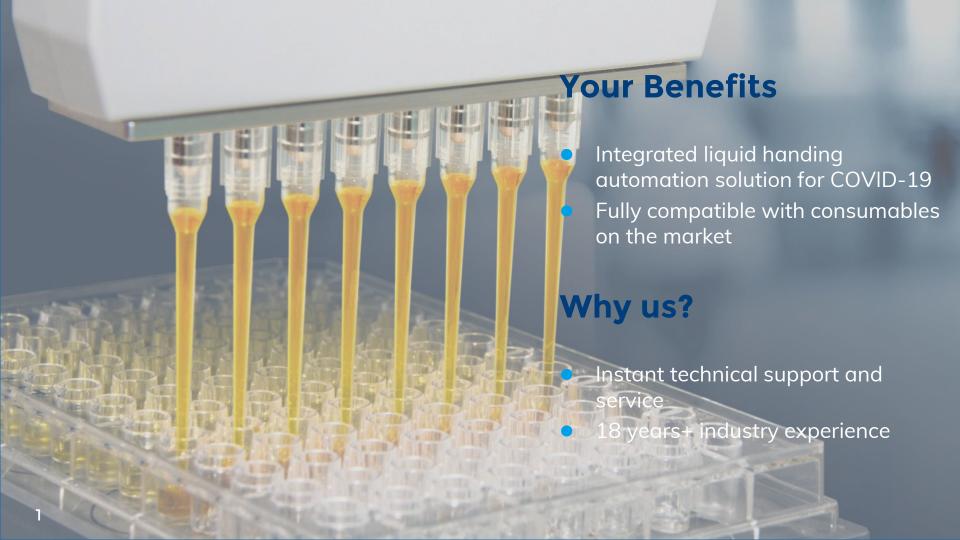


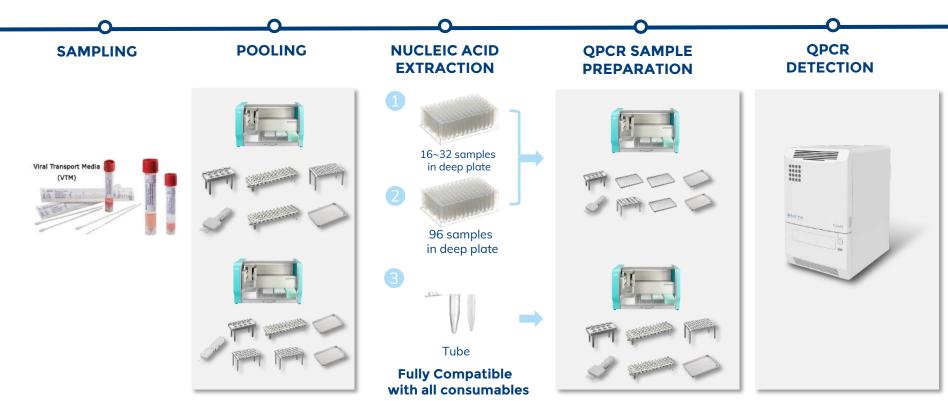
EzMate Automated Pipetting System

Efficient Solution for qPCR Sample Preparation and Pooling of COVID-19
Detection

Blue-Ray Biotech

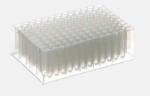


Integrated Liquid Handling Automation Addressed to COVID-19





Compatible with a Variety of Consumables



16~32 samples in deep plate

- PerkinElemer chemagic Prepito
- Genolution Nextractor® NX-48S
- Zinexts ZiXpress-32



96 samples in deep plate

- PerkinElemer chemagic[™] 360
- Roche MagMA Pure 96
- Thermo Scientific KingFisher Flex

- TANBead Maelstrom 9600
- Bioneer Exiprep 96 Lite



Tube

- Promega Maxwell
- QIAGEN QIAcube
- QIAGEN EZ1 Advanced
- Roche MagMA Pure Compact

- PSS magLEAD 6gC & 12gC
- Zinexts MagPurix 12 &24
- RBC Bioscience MagCore HF16
- RBC Bioscience MagCore® Plus II





Method 1-1 Direct Sample Preparation from Nucleic Acid Extraction System (in Plate)



After Extraction in Plate, qPCR Sample Preparation

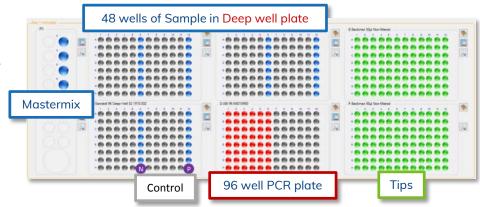
> Workflow

Transfer Transfer Run qPCR sample & control

Total time < 10 mins (1 set, 48 samples)

Materials

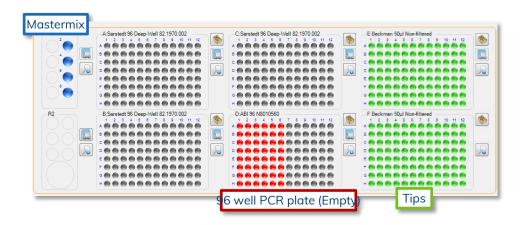
- EzMate 601 & 4-channel pipette module
- Deep well plate
- 96 well PCR plate
- Kit reagents and samples





Step 1 Transfer Mastermix

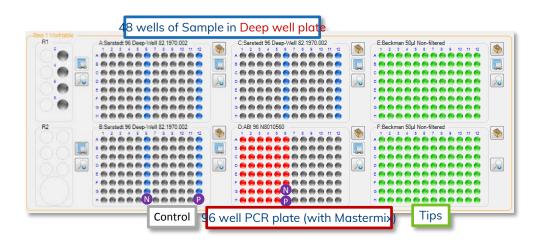
- > Transfer mastermix from 4 microcentrifuge tube to 96 well of PCR plate with EzMate 601 & 4-channel pipette module
 - Prepare mastermix by hand and separate to 4 tubes
 - Transfer mastermix from 4 tubes to 96 well PCR plate





Step 2 Transfer Samles and Control

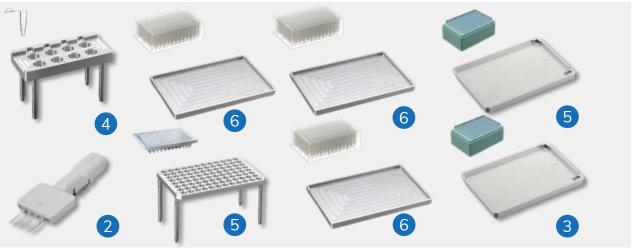
> Transfer 48 well of sample (deep plate) to 96 well PCR plate with EzMate 601 & 4-channel pipette module





Package





No	Part Number	Description	Q'TY
1	AREZ601-100000	6- position Automated Pipetting System 15.6" Notebook Computer and EzStarter™ control software	1
2	275-ezar01-01	4-channel, 50 μ l Pipetting Module	1
3	275-ezar21-00	96 tips rack adapter	2
4	275-ezar26-00	4*2 1.5ml tubes adapter	1
5	275-ezar22-00	Elevated 96-well PCR plate adapter	1
6	275-ezar24-00	Deep well plate adapter	3



Method 1-2 Direct Sample Preparation from Nucleic Acid Extraction System (Tube)



After Extraction in Tube, qPCR Sample Preparation

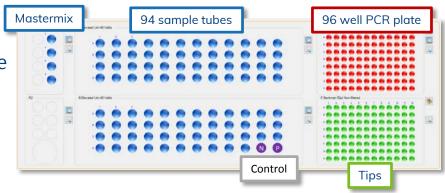
> Workflow

Transfer Transfer Run qPCR sample & control

Total time < 15 mins (1 set, 96 samples)

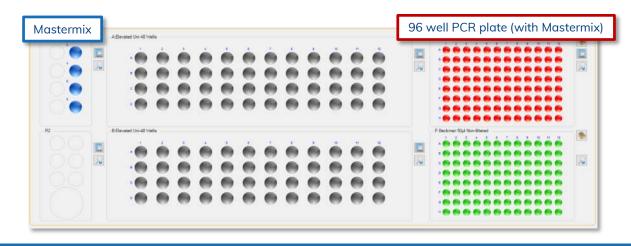
Materials

- EzMate 601 & 4-channel pipette module
- Deep well plate
- 96 well PCR plate
- Kit reagents and samples



Step 1 Transfer Mastermix

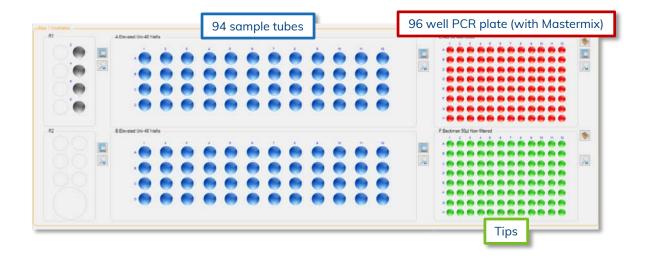
- > Transfer mastermix from 4 microcentrifuge tube to 96 well of PCR plate with EzMate 601 & 4-channel pipette module
 - Prepare mastermix by hand and separate to 4 tubes
 - Transfer mastermix from 4 tubes to 96 well PCR plate





Step 2 Transfer Samles and Control

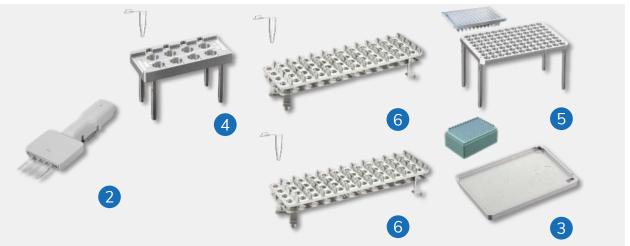
> Transfer 96 sample tubes to 96 well PCR plate with EzMate 601 & 4-channel pipette module





Package





No	Part Number	Description	Q'TY
1	AREZ601-100000	6- position Automated Pipetting System 15.6" Notebook Computer and EzStarter™ control software	1
2	275-ezar06-00	4-channel, 50 μ l Pipetting Module	1
3	275-ezar21-00	96 tips rack adapter	1
4	275-ezar26-00	4*2 1.5ml tubes adapter	1
5	275-ezar22-00	Elevated 96-well PCR plate adapter	2
6	275-ezarA5-00	48X tube adapter	2



Method 2 Sample Pooling Before QPCR Detection



P-BEST Method Pooling

> Workflow

Transfer sample

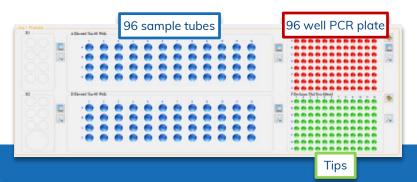
Pooling

Extraction

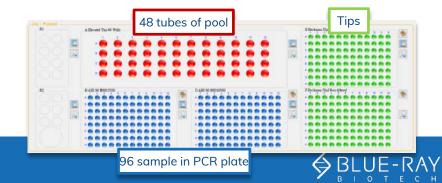
Run qPCR

- Transfer sample < 8 min (96 samples, 1 round)
- Pooling ~ 5 hours (48 pools, 48 samples in each pool)
- > Materials

EzMate 601 + 4-channel pipette module



EzMate 601 + 1-channel pipette module



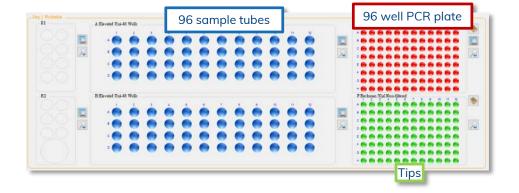
Step 1 Apply on EzMate 601 & 4-channel Pipette Module

Materials

- EzMate 601 & 4-channel pipette module
- Microcentrifuge tube *384
- 96 well PCR plate *4

Transfer 96 samples to PCR plate

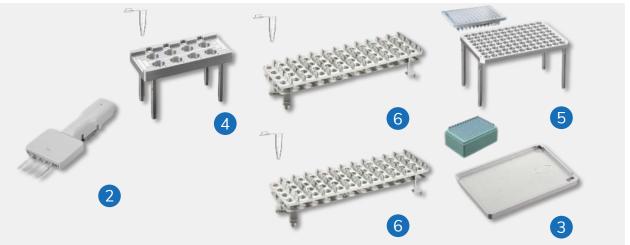
- < 8 min
- 4 rounds





Package





No	Part Number	Description	Q'TY
1	AREZ601-100000	6- position Automated Pipetting System 15.6" Notebook Computer and EzStarter™ control software	1
2	275-ezar06-00	4-channel, 50 μ l Pipetting Module	1
3	275-ezar21-00	96 tips rack adapter	2
4	275-ezar26-00	4*2 1.5ml tubes adapter	1
5	275-ezar22-00	Elevated 96-well PCR plate adapter	1
6	275-ezarA5-00	48X tube adapter	2

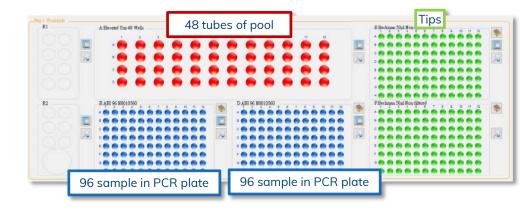
Step 2 Apply on EzMate 601 & 1-channel Pipette Module

Materials

- EzMate 601 & 1-channel pipette module
- 96 well PCR plate *4
- Microcentrifuge tube *48

Transfer 384 samples to 48 pools

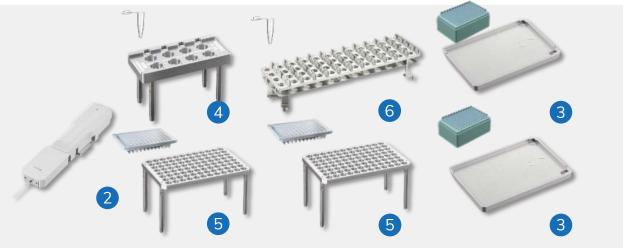
Total 5 hours





Package





No	Part Number	Description	Q'TY
1	AREZ601-100000	6- position Automated Pipetting System 15.6" Notebook Computer and EzStarter™ control software	1
2	275-ezar01-01	1-channel, 50 μ l Pipetting Module	1
3	275-ezar21-00	96 tips rack adapter	2
4	275-ezar26-00	4*2 1.5ml tubes adapter	1
5	275-ezar22-00	Elevated 96-well PCR plate adapter	2
6	275-ezarA5-00	48X tube adapter	2

EzMate Automated Pipetting System Series

- Ideal for routine low volume pipetting
- Interchangeable 1 / 4 / 8-channel, 50µl / 200µl volume ranges
- High accuracy and precision down to 1 μL
- Customized adapters and labwares
- A wide variety of application including: PCR/qPCR set up, NGS preparation, Sample normalization, Reagent kit manufacturing and Cell-based assay
- Customer proven quality: <u>25+ app notes</u> & customer base worldwide arcoss research institution and medical companies











About Blue-Ray Biotech



Product Portfolio

qPCR & PCR machines liquid handling spectrophotometer, live cell imaging microcentrifuge



Worldwide Distribution Network Across 40 countries







In house RD & manufacturing Facility

100% Made in Taiwan







www.blue-raybio.com/





Instant Techical Support and Service







BETTER EQUIPMENT, BETTER RESEARCH. Thank You