

# PRODUCT CATALOGUE

**Microcentrifuge Tubes**

**PCR Tubes & Strips**

**qPCR Strips & Caps**

**qPCR Plates**

**Racks**

**Storage Boxes**

**Reagent Reservoir**

**Spray Bottle**

**Benchttop Wastebin**

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**Instruments**

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<i>abCurate</i> <sup>™</sup> Pipettes	Vortex Mixer	Mini Centrifuge
<i>abSPIN</i> <sup>™</sup> Fast Mini Centrifuge	<i>abSPIN</i> <sup>™</sup> Microcentrifuge 24	<i>abSPIN</i> <sup>™</sup> Refrigerated Microcentrifuge 24R

## INSTRUMENTS 38

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<i>abGenix</i> <sup>™</sup>	<i>abCycler</i> <sup>™</sup>	<i>abCycler</i> <sup>™</sup> Q
<i>abCycler</i> <sup>™</sup> Qs	<i>abCycler</i> <sup>™</sup> Qmini	<i>abONE</i> <sup>™</sup>

# CONSUMABLES



# abWare™ MICROCENTRIFUGE TUBES 1.5 / 2 ml

## PRODUCT FEATURES

- Clear graduation marking
- Frosted writing area for sample identification
- (1.5 / 2 ml tubes)
- Flat cap for easy labelling
- Safe-lock cap design ensures secure lid seal
- Easy to open and close
- Max. RCF: 30,000 xg

Material: USP grade VI Polypropylene  
 Temperature range from -80°C to 121°C  
 Free of DNase / RNase & Non-pyrogenic  
 Autoclavable



## ORDER INFORMATION

Cat. No	Description	Packaging
800013	1.5 ml Microcentrifuge Tube, Conical-Bottom	500/pack
800014	2 ml Microcentrifuge Tube, Round-Bottom	500/pack

# abWare™

## PCR TUBES & STRIPS

### 0.2 ml

## PRODUCT FEATURES

### PCR Tube

- Compatible with most thermal cyclers
- Leak proof cap
- Thin wall tube provides optimal thermal transfer and shorter cycle time



### PCR Strip

- Tight sealing yet easy to open flat, optically clear caps
- Individual caps are attached at an angle to prevent cap lids and hinges from interfering with each other
- Thin wall tube provides optimal thermal transfer and shorter cycle time



Material: USP grade VI Polypropylene  
 Free of DNase / RNase / PCR Inhibitor  
 Autoclavable

## ORDER INFORMATION

Cat. No	Description	Packaging
800018	0.2 ml PCR Tube with attached Flat Cap	1000/pack
800018C	0.2 ml PCR Tube with attached Flat Cap	1000/pack, 10,000/case
800019	0.2 ml 8-tube PCR Strip with attached Flat Cap	120/pack
800019C	0.2 ml 8-tube PCR Strip with attached Flat Cap	120/pack, 1,200/case

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## qPCR STRIPS & CAPS

### 0.1 / 0.2 ml

## PRODUCT FEATURES

### qPCR Strip

- Available in both clear and white tubes
- White strip tubes increases the fluorescent signal strength of qPCR and avoid signal contamination from block
- Compatible with most thermal cyclers and real-time PCR machine
- Extra-thin walls provide optimal thermal transfer and shorter cycle times

### Cap Strip

- Easy to open yet tight sealing cap reduces loss of reaction

Material: USP grade VI Polypropylene  
Free of DNase / RNase / PCR Inhibitor  
Autoclavable



0.1 ml qPCR Strip, Clear



0.1 ml qPCR Strip, White



0.2 ml qPCR Strip, Clear



0.2 ml qPCR Strip, White

## ORDER INFORMATION

Cat. No	Description	Packaging
800033	0.1 ml 8-tube qPCR Strip & Flat 8-cap Strip, Clear	125/pack
800033C	0.1 ml 8-tube qPCR Strip & Flat 8-cap Strip, Clear	125/pack
800034	0.2 ml 8-tube qPCR Strip & Flat 8-cap Strip, Clear	125/pack
800035	0.1 ml 8-tube qPCR Strip & Flat 8-cap Strip, White	125/pack
800036	0.2 ml 8-tube qPCR Strip & Flat 8-cap Strip, White	125/pack
800058	Flat 8-cap Strips, Clear	125/pack
800060	Domed 8-cap Strips, Clear	120/pack

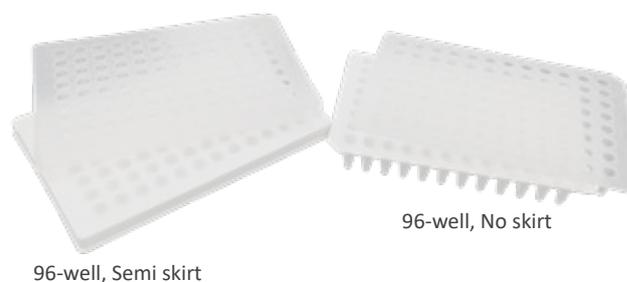
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## qPCR PLATES

### 96 Wells

## PRODUCT FEATURES

- Available in clear and white, no skirt, semi skirt and full skirt
- Raised edges around each holes to better prevent cross contamination and aid in effective sealing of plate to reduce evaporation
- Plates with skirt provides a more stable structure and more space for labelling



Material: Polypropylene  
 Free of DNase / RNase / PCR Inhibitor  
 Autoclavable

## ORDER INFORMATION

Cat. No	Description	Packaging
800045	0.1 ml 96-well qPCR Plate, No Skirt, Clear	25/pack
800046	0.1 ml 96-well qPCR Plate, Semi Skirt, Clear	25/pack
800047	0.2 ml 96-well qPCR Plate, No Skirt, Clear	25/pack
800048	0.2 ml 96-well qPCR Plate, Semi Skirt, Clear	25/pack
800049C	0.1 ml 96-well qPCR Plate, No Skirt, White	100/case
800051C	0.2 ml 96-well qPCR Plate, No Skirt, White	100/case

# COMPATIBILITY CHART

MANUFACTURER / MODEL NO.																	
8-TUBE & 8-CAP STRIP																	
Part No.	Applied Biosystems® 7000	Applied Biosystems® 7300	Applied Biosystems® 7500	Applied Biosystems® 7500 Fast	Applied Biosystems® StepOne™	Applied Biosystems® StepOnePlus™	Applied Biosystems® ViiA™ 7	Applied Biosystems® ViiA™ 7 Fast	Applied Biosystems® QuantStudio™	Applied Biosystems® QuantStudio™ Fast	Bio-Rad CFX96™	Bio-Rad CFX384™	Agilent Stratagene Mx3000P	Agilent Stratagene Mx3005P	QIAGEN Rotor-Gene® Q (36 Rotor)	QIAGEN Rotor-Gene® Q (72 Rotor)	Roche LightCycler® 480
PLATE																	
Part No.																	
800033				⊙	⊙	⊙		⊙		⊙	⊙						
800034	⊙	⊙	⊙										⊙	⊙			
800035				⊙	⊙	⊙		⊙		⊙	⊙						
800036	⊙	⊙	⊙										⊙	⊙			
800045				⊙							⊙						
800046											⊙						
800047			⊙											⊙			
800048			⊙														
800049				⊙							⊙						
800051			⊙											⊙			

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## RACKS

### 24-Well Reversible Microtube Rack

#### PRODUCT FEATURES

- 6 x 4 well format
- Accommodates microcentrifuges tubes
- Numbered wells for sample preparation (both sides)
- Available in assorted colours\*



Material: Polypropylene

Dimension in mm: L110x W60 x H22

#### ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800109A	24-Well Reversible Microtube Rack for 0.5ml or 1.5/2ml	Assorted	1/pack

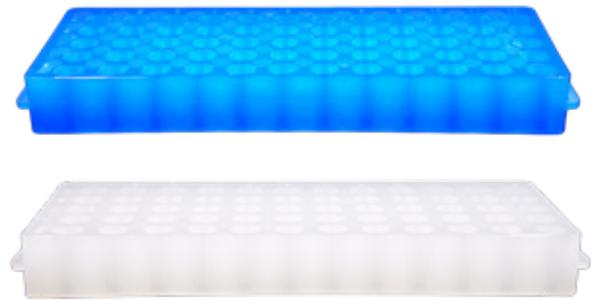
*\*There may be a slight shade variation from batch to batch*

*abWare™***RACKS****60-Well Reversible Microtube Rack****PRODUCT FEATURES**

- 12 x 5 well format
- Accommodates microcentrifuge tubes
- Alpha-numerically labelled (both sides)
- Autoclavable
- Available in assorted colours\*

Material: Polypropylene

Dimension in mm: L205 x W72 x H23

**ORDER INFORMATION**

<b>Cat. No</b>	<b>Description</b>	<b>Colour</b>	<b>Packaging</b>
800117	60-well Reversible Microtube Rack for 0.5 ml or 1.5/2 ml	Blue	1/pack
800118	60-well Reversible Microtube Rack for 0.5 ml or 1.5/2 ml	White	1/pack

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## RACKS

### 80-Well Reversible Microtube Rack

#### PRODUCT FEATURES

- 16 x 5 well format
- Accommodates microcentrifuge tubes
- Numbered wells for sample preparation (both sides)
- Available in assorted colours\*

Material: Polypropylene

Dimension in mm: L210 x W65 x H26



#### ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800101	80-well Reversible Microtube Rack for 1.5/2 ml or 60 x 0.2 ml	Colourless	1/pack
800120	80-well Reversible Microtube Rack for 1.5/2 ml or 60 x 0.2 ml	Orange	1/pack
800120B	80-well Reversible Microtube Rack for 1.5/2 ml or 60 x 0.2 ml	Blue	1/pack
800120G	80-well Reversible Microtube Rack for 1.5/2 ml or 60 x 0.2 ml	Green	1/pack

*\*There may be a slight shade variation from batch to batch*

abWare™

## RACKS

### 96-Well Reversible Microtube Rack

#### PRODUCT FEATURES

- 12 x 8 well format
- Accommodates microcentrifuge tubes
- Alpha-numerically labelled (both sides)
- Autoclavable
- Available in assorted colours\*

Material: Polypropylene

Dimension in mm: L210 x W113 x H21



#### ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800111	96-well Reversible Microtube Rack for 0.5 ml or 1.5/2 ml	Colourless	1/pack
800112	96-well Reversible Microtube Rack for 0.5 ml or 1.5/2 ml	Yellow	1/pack
800113	96-well Reversible Microtube Rack for 0.5 ml or 1.5/2 ml	Blue	1/pack
800114	96-well Reversible Microtube Rack for 0.5 ml or 1.5/2 ml	Green	1/pack

\*There may be a slight shade variation from batch to batch

\* Kindly contact AITbiotech for latest available colours.

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## RACKS

### PCR Rack

## PRODUCT FEATURES

- 96-well rack
- Accommodates a 96-well plate, 0.2 ml tubes and 0.2 ml strip tubes
- Transparent plastic cover for easy identification
- Stackable and compact
- Autoclavable



Material: Polypropylene

## ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800126	96-well PCR Rack with Cover	Assorted	3/pack

# abWare™

## RACKS

### 4-Way Tube Rack

## PRODUCT FEATURES

- Each side of the rack can accommodate 4 x 50 ml tubes, 12 x 15 ml tubes, 32 x 1.5 / 2 ml tubes or 32 x 0.5 ml tubes
- Versatile use
- Alpha-numerically labelled on all sides
- Autoclavable
- Available in assorted colours\*

Material: Polypropylene

Dimension in mm: L165 x W90 x H50



## ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800130B	4-way Tube Rack	Blue	2/pack
800130G	4-way Tube Rack	Green	2/pack
800130O	4-way Tube Rack	Orange	2/pack
800130P	4-way Tube Rack	Pink	2/pack
800130W	4-way Tube Rack	White	2/pack

*\*There may be a slight shade variation from batch to batch*

# abWare™

## RACKS

### Multirack

## PRODUCT FEATURES

- Accommodate a wide range of tube sizes from 0.2ml to 50ml
- Versatile use
- Compact design saves bench space
- Autoclavable

Material: Polypropylene

Dimension in mm: L220 x W130 x H45

(H45 refers to the height of the highest well)



## ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800131A	Multirack for 0.2ml - 50ml Tubes	Assorted	1/pack

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## RACKS

### Multi-Purpose Tube Rack

## PRODUCT FEATURES

- 18 mm diameter hole
- Accommodates test tubes and centrifuge tubes with diameter from 10 to 18 mm
- Bottom holes fitted with silicone gasket for a better grip so tubes won't fall off easily when inverted
- Available in assorted colours\*

Material: ABS

Dimension in mm: L210 x W125 x H50



## ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800144B	50-well Multi-purpose Tube Rack	Blue	1/pack
800144G	50-well Multi-purpose Tube Rack	Green	1/pack
800144O	50-well Multi-purpose Tube Rack	Orange	1/pack
800144P	50-well Multi-purpose Tube Rack	Pink	1/pack

*\*There may be a slight shade variation from batch to batch*

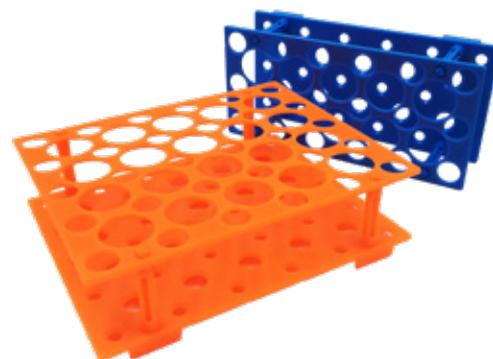
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## RACKS

### Snap-Together Tube Rack

#### PRODUCT FEATURES

- Alpha-numerically labelled except for 800151A
- Shipped flat in a zip lock bag yet easy to assemble
- Rack snaps together securely
- Designed for use in water baths
- Not recommended to autoclave.
- Available in assorted colours\*



Material: Polypropylene

#### ORDER INFORMATION

Cat. No	Description	Colour	Dimension (mm)	Packaging
800145B	Snap-Together Conical Tube Rack for 30 x 15ml and 20 x 50ml tubes	Blue	L250 x W170 x H60	1/pack
800145O	Snap-Together Conical Tube Rack for 30 x 15ml and 20 x 50ml tubes	Orange	L250 x W170 x H60	1/pack
800148B	Snap-Together Conical Tube Rack for 18 x 15ml and 10 x 50ml tubes	Blue	L207 x W98 x H60	1/pack
800148O	Snap-Together Conical Tube Rack for 18 x 15ml and 10 x 50ml tubes	Orange	L207 x W98 x H60	1/pack
800150A	Snap-Together Tube Rack for 20mm x 40 tubes	Assorted	L250 x W105 x H65	1/pack
800151A	Snap-Together Tube Rack for 16mm x 60 tubes	Assorted	L250 x W105 x H65	1/pack

\*There may be a slight shade variation from batch to batch

# abWare™

## RACKS

### Pipette Holder

## PRODUCT FEATURES

### Pipette Stand

- Accommodates 6 pipettes
- Able to fit 1 x 5 ml and 1 x 10 ml pipettes in the centre position

### abStand, linear

- Compatible with abCurate Pipettes



800153



800154

## ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800153	abStand™ Pipette Stand for 6 Pipettes	White	1/pack
800154	abStand™ Linear (For abCurate Pipettes)	White	1/pack

# abWare™

## STORAGE BOXES

### Freezer Storage Box

## PRODUCT FEATURES

- Sturdy cardboard storage box suitable for use in freezer as low as -80°C or at room temperature
- 9 x 9 well format
- Write on white surface for easy identification
- Accommodates 0.5-2 ml tubes
- Moisture repellent



Dimension in mm: L132 x W132 x H46

Inner well dimension in mm: 14 x 14

## ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800204	81-well Freezer Cardboard Storage Box	Glossy White	1/pack
800204C	81-well Freezer Cardboard Storage Box	Glossy White	100/case

# abWare™

## STORAGE BOXES

### Freezer Storage Box

## PRODUCT FEATURES

- Sturdy cardboard storage box suitable for use in freezer as low as -80°C or at room temperature
- Dividers made of polypropylene
- 9 x 9 well format
- Accommodates 1.5 ml, 1.8 ml and 2 ml microtubes and vials
- Alpha-numerically labelled on box surface as well as inside of box
- Hinged lid ensures that lids will never be misplaced or mixed up
- Moisture repellent
- Available in assorted colours\*



Dimension in mm: L132 x W132 x H50

Inner well dimension in mm: 12 x 12

## ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800205	81-well Freezer Cardboard Storage Box with Hinged Cover and Plastic Dividers	Orange	1/pack
800206	81-well Freezer Cardboard Storage Box with Hinged Cover and Plastic Dividers	Blue	1/pack
800207	81-well Freezer Cardboard Storage Box with Hinged Cover and Plastic Dividers	Green	1/pack
800210	81-well Freezer Cardboard Storage Box with Hinged Cover and Plastic Dividers	Red	1/pack

*\*There may be a slight shade variation from batch to batch*

# abWare™

## STORAGE BOXES

### 100-well Freezer Storage Box

## PRODUCT FEATURES

- Freezer Box with cover for storage of microcentrifuge tubes
- 10 x 10 well format
- Accommodates 1.5ml, 1.8ml and 2 ml microtubes and vials
- Hinged lid ensures that lid will never be misplaced or mixed up.
- Available in assorted colours\*



Material: Polypropylene

Dimension in mm: L140 x W140 x H54

## ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800203A	100-well Freezer Storage Box	Assorted	1/pack

# abWare™

## STORAGE BOXES

### 100-well Freezer Storage Box

## PRODUCT FEATURES

### Freezer Storage Box with Gridlines on Cover

- Freezer box with translucent cover for storage of microcentrifuge tubes and vials
- 10 x 10 well format
- Accommodates 1.5 ml and 2 ml tubes and vials
- Designed with gridlines on the transparent cover for easy sample identification



Material: Polypropylene

Temperature range from -80°C to 121°C

External dimensions in mm: L140 x W140 x H53

Internal dimensions (each well) in mm: D13 x H33

## ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800248	100-well Freezer Storage Box with Gridlines on Cover	White	1/pack

# abWare™

## STORAGE BOXES

### Microtube Storage Box

## PRODUCT FEATURES

### Freezer Box with Cover

- 10 x 5 well format
- Accommodates 0.5 ml, 1.5 ml and 2 ml tubes and vials
- Frosted writing area on cover for labelling
- Pull off lid cover

Material: Polypropylene

Temperature range from -80°C to 121°C

Dimension in mm: L145 x W75 x H50



## ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800208	50-well Freezer Box with Cover	Transparent	1/pack

*abWare™***STORAGE BOXES****Slide Storage Box / Folder****PRODUCT FEATURES****Slide Storage Box**

- Holds 100 slides
- Stackable
- Hinged lid for easy opening
- Inventory sheet affixed to inner side of the cover for identification and organization
- Made of ABS with stainless steel clasp

**Cardboard Slide Folder**

- Holds 20 slides
- Numbered compartments

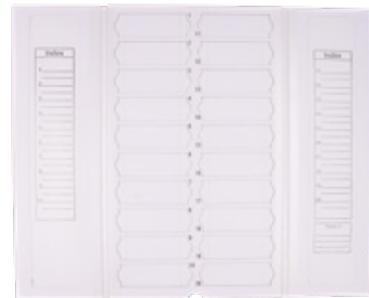
Dimension in mm: (Slide Storage Box)

L207 x W162 x H34

(Cardboard Slide Folder)

Open: L420 x W340

Close: L205 x W340

**ORDER INFORMATION**

Cat. No	Description	Colour	Packaging
800240B	100-place Slide Storage Box with buckle	Blue	1/pack
800254	100-place Slide Storage Box with buckle	Beige	1/pack
800254O	100-place Slide Storage Box with buckle	Orange	1/pack
800254R	100-place Slide Storage Box with buckle	Red	1/pack
800255	Cardboard Slide Folder for 20 Microscope Slides	White	5/pack

# abWare™

## REAGENT RESERVOIR

### Single Well

## PRODUCT FEATURES

- 60 ml capacity, single well
- V-shaped bottom designed to minimize waste
- Comes with lid to prevent contamination
- Clear graduation markings on interior walls
- Can be used with single or multi channel pipettes
- Reusable and autoclavable
- Free of DNase/ RNase/ Endotoxin & Non-pyrogenic



Material: Polypropylene (USP VI grade)

## ORDER INFORMATION

Cat. No	Description	Packaging
800451C	60 ml Reagent Reservoir	5/pack, 25/case

# abWare™ SPRAY BOTTLE

## PRODUCT FEATURES

- Clear bottle, white spray nozzle
- 520 ml capacity

To prepare 70% ethanol in bottle directly:  
 Pour 100% ethanol to grey fill line and top up the bottle to full  
 with distilled water



## ORDER INFORMATION

Cat. No	Description	Packaging
800481	Ethanol Spray Bottle	1/pack

# abWare™ BENCHTOP WASTEBIN

## PRODUCT FEATURES

- Comes with lid, which minimizes odour and exposure to airborne contaminants
- One hand operation
- Optimally sized for benchtop application
- Sturdy and leak proof
- Suitable for general and hazardous waste disposal
- Comes with universal hazardous sign label with an empty field for personalization



Dimension in mm: L130 x W130 x H175

## ORDER INFORMATION

Cat. No	Description	Colour	Packaging
800495A	Benchtop Wastebin with Push-To-Open Hinged Lid	Assorted	1/pack

# GENERAL LAB EQUIPMENT



## General Lab Equipment

# VORTEX MIXER

## PRODUCT FEATURES

- Sturdy cast casing
- Silicone feet and heavy steel base ensures mixer remains stable on work bench
- Continuous or touch mode
- Available in 2 versions: UK/ US plug



Dimension in mm: L127 x W130 x H160

Weight: 3.5kg

Voltage: AC 220-230V/ AC 110- 120V, 50Hz

Power: 60W

Speed range: 0-2500 rpm

## ORDER INFORMATION

Cat. No	Description	Packaging
800503_UK	Vortex Mixer	1/pack

# General Lab Equipment

## abCURATE™ PIPETTES

### Single-Channel Pipettes

## PRODUCT FEATURES

- Fully Autoclavable at 121°C
- Easy assembly and disassembly for routine maintenance
- Smooth and low operating force
- Presence of lockable volume adjustment knob to prevent accidental adjustment of set volume during pipetting
- Compatible with wide range of pipette tips
- 4-digit volume display
- Available in 3 volume ranges: 0.5-10 µl, 10-100 µl, 100-1000 µl



## ORDER INFORMATION

Cat. No	Description	Packaging
800902	abCurate™ Single-channel Pipettes, 0.5-10 µl	1/pack
800904	abCurate™ Single-channel Pipettes, 10-100 µl	1/pack
800907	abCurate™ Single-channel Pipettes, 100-1000 µl	1/pack

## General Lab Equipment

# MINI CENTRIFUGE

## PRODUCT FEATURES

- Comes with two standard rotors
- 8 x 1.5 / 2 ml rotor designed to centrifuge up to eight individual 1.5 / 2 ml microcentrifuge tubes. It can also be used to centrifuge 0.5 ml and 0.2 ml tubes with the adapters supplied with the unit
- Strip tube rotor is designed to centrifuge four 8 x 0.2 ml strip tubes. It can also be used to centrifuge 32 individual 0.2 ml tubes
- Both rotors are designed for application that requires a relatively low g-force, such as micro-filtration, cell separation and quick spin of sample
- Rotors are interchangeable by using the 'push, lift and click' method. No screws or wrenches are required



Dimension in mm: L150 x H100

Voltage: 85~245V, 60Hz

Speed: 7200 ± 200 rpm

## ORDER INFORMATION

Cat. No	Description	Packaging
800501_1	Mini Centrifuge	1/pack

## General Lab Equipment **abSPIN™ FAST MINI CENTRIFUGE**

### PRODUCT FEATURES

- Comes with two standard rotors 8 x 1.5 / 2 ml rotor designed to centrifuge up to eight individual 1.5 / 2 ml microcentrifuge tubes. It can also be used to centrifuge 0.5 ml and 0.2 ml tubes with the adapters supplied with the unit
- PCR Strip tube rotor is designed to centrifuge 4 x 8-Tube PCR Strips.
- Supplied with two interchangeable quick release rotors. No tools are required
- Adjustable speed and time using the control panel



### ORDER INFORMATION

Cat. No	Description	Packaging
800505	abSPIN™ Fast Mini Centrifuge	1/pack

# General Lab Equipment

## abSPIN™ FAST MINI CENTRIFUGE

Technical Specification	
Dimension (W x D x H)	196mm × 176mm × 122mm
Display Method	LED
Timer	1–99 mins
Speed	2000~12000rpm ±5%
Speed Increment	1000 rpm
Maximum RCF	6209 xg
Fastest Acceleration Time	≤10s
Fastest Deceleration Time	≤10s
Allowable Ambient Temperature / Relative Humidity	5°C to 40°C / 80%
Weight (no rotor)	1.3 kg
Power usage	AC 90–240V, 50 / 60 Hz
Power consumption	600W

# General Lab Equipment

## abSPIN™ MICROCENTRIFUGE 24

### PRODUCT FEATURES

- Small Footprint
- Large LCD Touchscreen Display Panel
- Option to set speed in RPM / RCF



### ORDER INFORMATION

Cat. No	Description	Packaging
800506	abSPIN™ Microcentrifuge 24	1/pack

### Rotors and Accessories

Part No.	Type	Capacity	Max. Speed (RPM)	RCF ( x g )
800510		Fixed-angle Rotor, 12 x 5.0ml (without lid)	16,500	15,720
800511		Fixed-angle Rotor, 24 x 1.5 / 2.0ml	15,000	20,625
800512		Fixed-angle Rotor, 8 x PCR Strips / 32 PCR Tubes	14,000	14,395
800513		Adapter, 0.2ml PCR Tube (8pcs / pack)	-	-
800514		Adapter, 0.5ml Tube (8pcs / pack)	-	-

# General Lab Equipment

## abSPIN™ MICROCENTRIFUGE 24

Technical Specification	
Dimension (W x D x H)	310 mm x 410 mm x 250 mm
Max. capacity	12 x 5.0ml
Max. RPM	16,500 rpm
Max. RCF	20,625 x g
RPM accuracy	±20 rpm
Acceleration rate	15
Deceleration rate	15 (plus additional 0 braking option)
Timer	1s to 99h 59min 59s
Noise level	≤ 60dBa
Weight (with rotor)	23 kg
Power supply	AC 200V ~ 240V, 50 / 60 Hz
Power rating	363W
Rated current	10 A

# General Lab Equipment

## abSPIN™ REFRIGERATED MICROCENTRIFUGE 24R

### PRODUCT FEATURES

- Small Footprint
- Large LCD Touchscreen Display Panel
- Pre Cooling Function
- Option to set speed in RPM / RCF
- Refrigerant R290: Natural and environmental friendly hydrocarbo



### ORDER INFORMATION

Cat. No	Description	Packaging
800507	abSPIN™ Refrigerated Microcentrifuge 24R	1/pack

### Rotors and Accessories

Part No.	Type	Capacity	Max. Speed (RPM)	RCF ( x g )
800510		Fixed-angle Rotor, 12 x 5.0ml (without lid)	16,500	15,720
800511		Fixed-angle Rotor, 24 x 1.5 / 2.0ml	15,000	20,625
800512		Fixed-angle Rotor, 8 x PCR Strips / 32 PCR Tubes	14,000	14,395
800513		Adapter, 0.2ml PCR Tube (8pcs / pack)	-	-
800514		Adapter, 0.5ml Tube (8pcs / pack)	-	-

## General Lab Equipment

**abSPIN™ REFRIGERATED MICROCENTRIFUGE 24R**

Technical Specification	
Dimension (W x D x H)	295 mm x 470 mm x 330 mm
Max. capacity	12 x 5.0ml
Max. RPM	16,500 rpm
Max. RCF	20,625 x g
RPM accuracy	±20 rpm
Temperature accuracy	±1.0°C
Temperature range	-20°C to 40°C
Acceleration rate	15
Deceleration rate	15 (plus additional 0 braking option)
Timer	1s to 99h 59min 59s
Current	1.91A
Noise level	≤ 58dBa
Weight (with rotor)	39 kg
Power supply	AC 200V ~ 240V, 50 / 60 Hz

# INSTRUMENTS



# Instrument abGENIX™ AUTOMATED DNA & RNA EXTRACTION SYSTEM

## PRODUCT FEATURES

- Easy-to-use instrument with user friendly software, saving time and labour
- Small footprint which fits easily on lab bench top
- Reliable system with cost effective and affordable extraction kits for various kind of samples
- Rapid extraction to streamline work process
- High quality nucleic acid extraction using Magnetic Pillar Rod Technology



## ORDER INFORMATION

Cat No.	Product	Product Description
800800	abGenix™ Automated DNA & RNA Extraction System	Magnetic pillar automated system for extraction of DNA/RNA, up to 32 samples per run
800850	abGenix™ Strip Reagent Adapter	Adapter to hold the pre-filled strip reagents. Holds up to 8 reagent strips
800851	abGenix™ Mixing Sleeves	Mixing sleeves
800853	abGenix™ Magnetic Base	Magnetic base for standard 96-well plates and abGenix™ extraction plates

# Instrument abGENIX™ AUTOMATED DNA & RNA EXTRACTION SYSTEM



Customise, create, edit protocols on tablet, which can be easily downloaded to the *abGenix*™



Cost effective and affordable extraction kits for various kind of samples

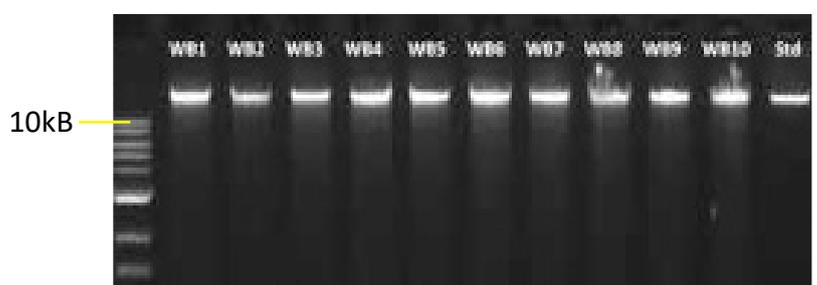


Scalable sample processing in either individual strips (1-16) or plates (16-32)

## Magnetic Pillar Rod Technology



Genomic DNA was purified from whole blood samples using the *abGenix* Whole Blood Genommic DNA kit.



# Instrument

## abGENIX™ AUTOMATED DNA & RNA EXTRACTION SYSTEM

Technical Specification	
Dimension (W x D x H)	440 mm x 420 mm x 440 mm
Extraction method	Magnetic pillar rod technology
Capacity	1–32 samples per batch 30–60 mins (Kit dependent)
Processing time	30–60 mins (Kit dependent)
Processing volume	Fixed volume: 100–200 µl (Kit dependent)
Elution volume	Fixed volume: 60–100 µl (Kit dependent)
Collection efficiency of magnetic particles	> 95% depending on sample and reagent kit
Heating temperature	Room temperature to 120°C
Contamination control	UV light
Hardware	<ul style="list-style-type: none"> <li>• Integrated microprocessor, no external PC required</li> <li>• Touch control panel</li> <li>• Tablet pairing and control</li> </ul>
Operation interface	English / Chinese language operation system
Protocols	15 pre-installed protocol in instrument, unlimited in tablet
Weight	31.5 kg
Power usage	AC 110–240V, 50 / 60 Hz
Power consumption	600VA
Operational ambient temperature	10–40°C

# Instrument **abCYCLER™ THERMOCYCLER SYSTEM**

## PRODUCT FEATURES

- Affordable, get more performance for less
- Easy operation, simple, intuitive graphic programming
- Small footprint, USB port for data transfer and store unlimited number of protocols
- Save lab space without sacrificing results
- Accommodate a wide variety of PCR consumables



## ORDER INFORMATION

Cat. No	Description	Packaging
800710	abCycler™ Thermocycler System	1/unit

# Instrument

## abCYCLER™ THERMOCYCLER SYSTEM

Technical Specification	
Dimension (W x D x H)	260 mm x 400 mm x 260 mm
Sample capacity	12 x 0.2 ml 8-tube PCR strips / 96 x 0.2 ml PCR tubes / 1 PCR plate 8 x 12 (No Skirt, Semi Skirt, Full Skirt)
Tube type	Clear, White, Frosted
Thermoblock	Aluminium
Reaction volume	Up to 100 µl
Temperature range	0–100°C
Heating technology of the block	Peltier element
Max. heating rate	5.5°C / sec
Max. cooling rate	4.5°C / sec
Block uniformity 20–72°C   95°C	± 0.2°C   ± 0.3°C
Gradient range	1–40°C
Gradient block	12 columns
Gradient temperature range	35–100°C
Lid temperature range (Heated Lid)	Enabled: 40–110°C Disabled: Room temperature to 110°C
Special temperature protocol	Standard mode, Gradient PCR mode, Long PCR mode, Touchdown PCR mode
Control modes	<ul style="list-style-type: none"> <li>7" LCD touch screen</li> <li>Standalone system</li> </ul>
Power failure protection	Continue with experiments after power supply resumes
Communication port	1 ethernet and 1 USB
Weight	11 kg
Power usage	AC 110–240V, 50 / 60 Hz
Power consumption	600VA
Working environment	Temperature: 15–35°C Humidity: 20–70%

# Instrument *abCYCLER™Q* REAL-TIME PCR SYSTEM

## PRODUCT FEATURES

- Easy-to-use software
- LED excitation source and PD detection
- 10 inch touch screen monitor
- Outstanding and powerful data analysis function
- 7 seconds top optical scanning
- Special temperature protocol advantage

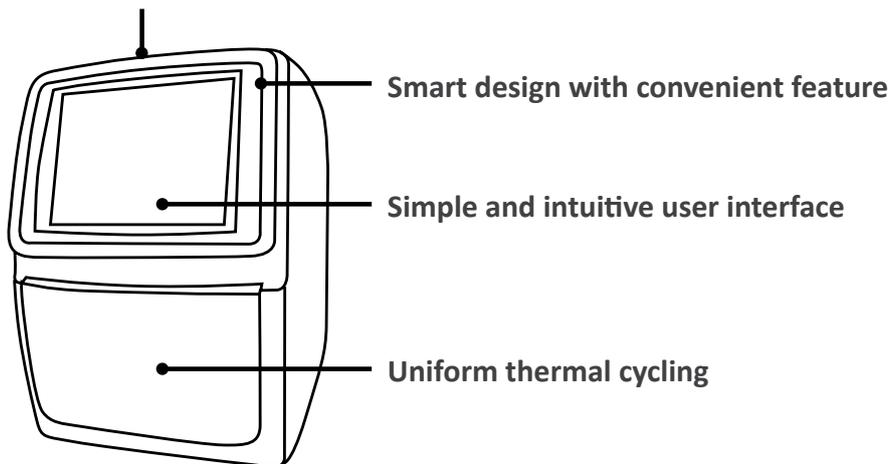


## ORDER INFORMATION

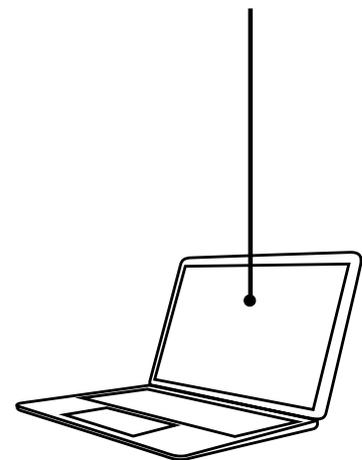
Cat. No	Description	Packaging
800700	<i>abCycler™Q</i> Real-time PCR System	1/unit

# Instrument abCYCLER™Q REAL-TIME PCR SYSTEM

## Sensitive optical system



## Powerful analysis software

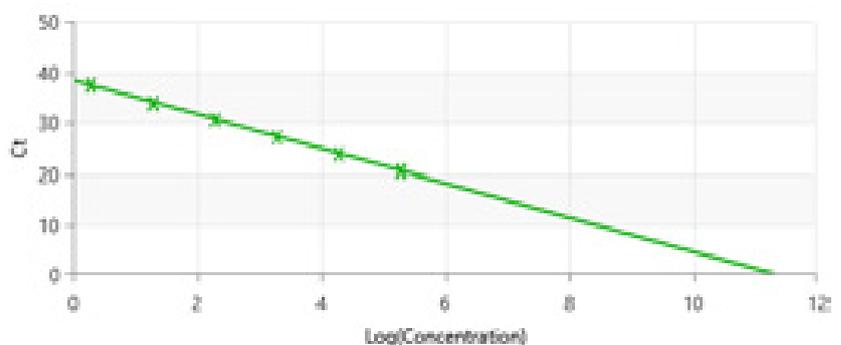
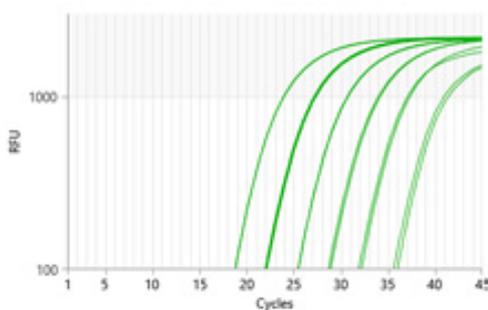


*\*For illustration purpose only. Laptop not included.*

## Data Analysis



abCycler™Q allows features like Heat Map to effortlessly visualize amplification data, using the RFU or the Ct values from the assays performed.



A real-time PCR using 10-fold serial dilution of IVT-RNA (synthetic target) was conducted on abCycler™Q. The instrument demonstrated a 6-log dynamic range amplification from  $1 \times 10^6$  to 10 copies / reaction.

abCycler™Q allows direct construction of standard curve from qPCR assays performed. An  $R^2$  value of  $\geq 0.99$  with very low CV% between replicates can be produced, facilitating the determination of good assay efficiency.

# Instrument

## abCYCLER™Q REAL-TIME PCR SYSTEM

Technical Specification	
Dimension (W x D x H)	355 mm x 480 mm x 485 mm
Sample capacity	12 x 0.2 ml 8-tube qPCR strips / 96 x 0.2 ml qPCR / 1 qPCR plate 8 x 12 (No Skirt)
Tube type	Clear, White, Frosted
Thermoblock	Aluminium
Reaction volume	Up to 100 µl
Temperature range	0–100°C
Heating technology of the block	Peltier element
Max. heating rate	6.1°C / sec
Average heating rate	4.5°C / sec
Max. cooling rate	5.0°C / sec
Average cooling rate	2.8°C / sec
Temperature accuracy	± 0.2°C
Block uniformity 20–72°C   95°C	± 0.2°C   ± 0.3°C
Gradient range	1–40°C
Gradient block	12 columns
Gradient temperature range	35–100°C
Lid temperature range (Heated Lid)	Enabled: 40–110°C Disabled: Room temperature to 110°C
Special temperature protocol	Standard mode, Gradient PCR mode, Long PCR mode, Touchdown PCR mode
Sample linearity	$R^2 \geq 0.998$ or $r \geq  0.999 $
Sample repeatability	Ct value, CV $\geq 0.5\%$
Sample dynamic range	1–10 <sup>10</sup> copies
PC operating system	Windows 7, Windows 10
Communication port	1 ethernet and 3 USB
Weight	30 kg
Power usage	AC 110–240V, 50 / 60 Hz
Power consumption	900VA
Working environment	Temperature: 10–30°C Humidity: 20–85%

# Instrument abCYCLER™Q REAL-TIME PCR SYSTEM

Optical System Specification	
Excitation source	6 filtered LED
Detection	Photodiodes
Detection position	Excitation and detection from the top
Detection method	6 channels scanning at the same time, no edge effect
Scan time	7 seconds for 96 wells for all channels
Channels & wavelength	<ul style="list-style-type: none"> <li>• 465 / 510 (FAM, SYBR Green I, STY09, EvaGreen, LCGreen)</li> <li>• 527 / 563 (HEX, VIC, TET, JOE)</li> <li>• 580 / 616 (ROX, Texas Red)</li> <li>• 632 / 664 (Cy5)</li> <li>• 680 / 730 (Alexa Fluor680)</li> <li>• 465 / 616 (FRET)</li> </ul>
Probe	TaqMan probe, Molecular beacon probe, Scorpion probe, FRET
Multiplexing	Up to 5 targets per well
Fluorescence linearity	$R^2 > 0.980$ or $r >  0.990 $

Software Functions Specification	
Data analysis modes	Qualitative analysis, Absolute quantification, Relative quantification, Genotyping, Endpoint analysis, High resolution melt analysis, Melt curve analysis
Control modes	<ul style="list-style-type: none"> <li>• 10.4" touch screen</li> <li>• Direct PC control / Standalone system</li> <li>• WLAN control (One PC can connect up to 10 units)</li> </ul>
Sample loading	Touch screen command on loading platform
Data storage	Upload & download via USB; save up to 1000 run files in internal memory storage
Power failure protection	Continue with experiments after power supply resumes
Customize report	Default template available with customizable options
Shipping lock	Automatically detect shipping lock upon start up
LIS connection	CSV, Excel, TXT format data output, open port for LIS connection

# Instrument *ab*CYCLER™QS REAL-TIME PCR SYSTEM

## PRODUCT FEATURES

- 4 Channel multiplex
- Fast, accurate and reliable
- Simultaneously scan all samples
- High temperature accuracy and uniformity
- Intuitive control interface



## ORDER INFORMATION

Cat. No	Description	Packaging
800730	<i>ab</i> Cycler™Qs Real-time PCR System	1/unit

# Instrument abCYCLER™QS REAL-TIME PCR SYSTEM

Technical Specification	
Dimension (W x D x H)	466 mm x 310 mm x 273 mm
Sample capacity	6 x 0.2ml 8-tube qPCR strips / 96 x 0.2ml qPCR tubes
Tube type	Clear
Thermoblock	Aluminium
Reaction volume	20 - 120 µl
Temperature range	4 - 99°C
Heating technology	Peltier element
Temperature accuracy	0.1°C
Temperature uniformity	± 0.25°C
Sample linearity	R ≥ 0.99
Sample repeatability	Ct ≤ 1%
Sample dynamic range	1 - 10 <sup>9</sup> copies
Excitation source	High power LED
Detection	Photodiodes
Detection position	Bottom scanning, via optical fiber
Detection method	48 samples scanning at the same time
Channels & wavelength	<ul style="list-style-type: none"> <li>• 470 / 525</li> <li>• 525 / 570</li> <li>• 570 / 620</li> <li>• 620 / 670</li> </ul>
Weight	18 kg
Power supply	AC 100 – 240V

# Instrument *abCYCLER™*QMINI REAL-TIME PCR SYSTEM

## PRODUCT FEATURES

- Used for relative and absolute quantification
- 7 inch intuitive touch screen monitor
- High quality peltier element
- 3 Fluorescence channels
- Small size and light weigh



## ORDER INFORMATION

Cat. No	Description	Packaging
800702	<i>abCycler™</i> Qmini Real-time PCR System	1/unit

# Instrument

## abCYCLER™QMINI REAL-TIME PCR SYSTEM

Technical Specification	
Dimension (W x D x H)	320 mm x 250 mm x 177 mm
Sample capacity	16 x 0.2ml PCR tubes / 2 x 0.2ml 8-tube PCR strips
Sample volume	25 - 120 µl
Temperature range	4 – 99°C
Temperature accuracy	≤ 0.2°C
Temperature uniformity	≤ ±0.2°C
Operating temperature	15 – 30°C
Light source	High-brightness LED
Detection	Photodiodes
Excitation & detection of a propagation medium	High temperature specialty optical fiber
Sample linear range	10 - 10 <sup>10</sup> copies
Sample linearity	R ≥ 0.99
Channels & wavelength	<ul style="list-style-type: none"> <li>• 465/510 (FAM, SYBR Green I, SYT09, EvaGreen, LCGreen)</li> <li>• 527/563 (HEX, VIC, TET, JOE)</li> <li>• 580/616 (ROX, Texas Red)</li> </ul>
Operation relative humidity	≤ 85%
Transport & storage temperature	-20 – 55°C
Transport & storage relative humidity	≤ 85%
Weight	4.5 kg
Power supply	220V, 50Hz, 240W
Noise level	45db

# Instrument

## abONE™ AUTOMATED MDx SYSTEM

### PRODUCT FEATURES

- Standalone system
- Small footprint
- True walk-away platform
- Pre-filled extraction cartridge
- Process 1–16 samples per run
- Laboratory information system (LIS)
- Less than 1 hour from sample to result
- Available in both ready-to-use and open-system



### ORDER INFORMATION

Cat. No	Description	Packaging
800702	abONE™ Automated Mdx System	1/unit
800741	4 fluorescence channels - lyophilized reagent version	
800742	4 fluorescence channels - liquid reagent version	
800743	5 fluorescence channels - lyophilized reagent version	
800744	5 fluorescence channels - liquid reagent version	

# Instrument

## abONE™ AUTOMATED MDx SYSTEM

Technical Specification	
Dimension (W x D x H)	610 mm x 670 mm x 660 mm
Operational ambient temperature	10–40°C
LIS connection	CSV
Data Storage	Upload and download via USB; save up to 1000 runfiles in internal memory storage
Contamination control	UV light
Communication port	1 ethernet and 2 USB
Weight	76 kg
Power usage	AC 100–240V, 50 / 60 Hz
Power consumption	600VA
Customize report	Default template available with customizable options

# Instrument

## abONE™ AUTOMATED MDx SYSTEM

Extraction unit	
Extraction method	Magnetic pillar rod technology
Sample capacity	1-16 samples/run
Processing time	10-40 mins (Kit dependent)
Sample capacity	50-300 µl
Elution volume	80-200 µl (Kit dependent)
Magnetic beads recovery rate	≥ 98%
Heating Temperature	Room temperature to 120°C
Protocol	Pre-installed protocols in instrument

Liquid Handling Unit	
Pipetting volume	10-200 µl
Pipetting accuracy	CV < 5% at 15 µl CV < 1% at 200 µl

qPCR unit	
Sample input volume	10-50 µl
Temperature range	40-99 °C
Processing time	<40 mins (Kit dependent)
Excitation source	5 filtered LED
Detection position	Excitation and detection from bottom
Channel & wavelength	465/510 (FAM) 527/563 (HEX/VIC) 580/616 (Texas Red) 632/664 (Cy5) 680/730 (Cy5.5)

For more information, call (65) 6778 6822 or email us at, [sales@aitbiotech.com](mailto:sales@aitbiotech.com)  
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