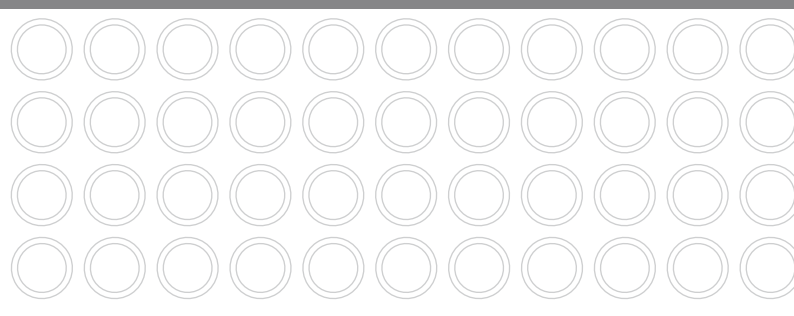


## Thermo Scientific ABgene PCR Plastics Selection Guide



# PCR plastics are the same regardless of where you buy them **Right?**



## **Wrong.**

Not all plastics are created equal - low quality PCR plastics can contain defects and contamination that interfere with your reaction and result in repeat experiments, lost time, and wasted resources.

Many steps lead up to and follow your PCR analysis; protect your entire workflow by choosing the most reliable PCR plastics available.

For over 20 years we have been supplying peace of mind to the molecular biology researcher.

**Our PCR plastics are designed, manufactured, and tested to ensure PCR performance.**



Amplify **with confidence**

# Thermo Scientific

## ABgene PCR Plastics Portfolio

### Choosing a plate

Plate model recommendations are based on optimal PCR performance and ease of handling. Most recommended plates are either fully skirted or semi-skirted as these plates offer increased rigidity, which reduces plate warping during thermal cycling, facilitates multichannel pipetting, and improves overall ease of use.

When plates maintain shape during thermal cycling there is consistent heat transfer throughout the plate and the risk of seal compromise and evaporation is greatly reduced, improving assay reproducibility. For more routine applications, we also offer non-skirted options.

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## Choose the right plate for your cycler.

To ensure proper fit and uniform heat transfer, we test each of our plate types across a broad range of PCR cyclers, real-time cyclers, and sequencers. Choose a plate that has been validated for use with your instrument block.

# Not all PCR plastics are created equal...

Many PCR plastic manufacturers cut corners to reduce costs. Our industry leading manufacturing process does not include any short-cuts and is carried out in a world-class facility run by qualified experts. Our PCR plastics manufacturing facility is solely focused on the production of high quality molecular grade plastics. Our team of engineers, molecular biologists, and QC/QA managers have the years of experience needed to deliver reliable products that generate accurate and reproducible PCR data. Thermo Scientific ABgene PCR plastics are **designed**, **manufactured**, and **tested** to ensure PCR performance.

### PCR Focused Manufacturing

#### Cleanroom Production

To avoid contaminants that can interfere with molecular biology applications, our entire production process, from molding to final packaging, is carried out in a Class 100,000 cleanroom under ISO 9001 guidelines. All of our PCR plastics are certified free from:

RNase, DNase, Endotoxins and Human DNA.

RNase

Endo-  
toxins

Human  
DNA

In contrast, during typical non-cleanroom production, plastics are exposed to many contaminants including dust, bacterial cells, and DNA. The plastics are then sterilized to kill bacteria and inactivate RNases and DNases, but sterilization does not remove dust or DNA contamination. The dust particles left behind can inhibit PCR, and the damaged DNA fragments can still act as templates leading to non-specific amplification. To ensure reliable PCR performance, choose cleanroom produced PCR plastics.

#### Virgin Medical Grade Polypropylene

The polymer we use is a select medical grade polypropylene chosen for its exceptional biocompatibility. This polymer is inert and will not interfere or adsorb PCR reaction components. To ensure purity, only virgin pellets are used - plastic waste from our manufacturing is recycled, but is not used in our products.

#### Precision Mold Design & Maintenance

Mold design and maintenance dramatically affect the quality of the PCR plastic - unpolished well surfaces can bind reaction components, and the presence of trace chemicals can inhibit amplification. Our tools are designed and maintained with this in mind.

Our tools are specially designed to ensure that no lubricants or releasing agents are used in any part of the production process and molds are cleaned and inspected after each production run. The mold cavities are also extensively polished to produce ultra-smooth PCR well surfaces.

This precision design and maintenance ensures our plastics are chemical free and ultra-smooth to prevent PCR inhibition and maximize sample recovery.

### Unparalleled QC Testing

#### Integrity Testing

Every well of every plate is visually inspected and tested using an electrostatic pinhole detection method. This thorough screening ensures every well is intact to protect all reactions.

#### PCR Functional Assays

Samples from each lot are tested in PCR to verify their ability to amplify specific targets, produce clean negative controls, and consistent technical replicates.

#### Evaporation Testing

Samples from each lot are run through PCR cycling to test sealing performance. Well liquid volumes are analyzed post-PCR to verify seal integrity. This ensures every production lot conforms to strict tolerances.

#### Biological Testing

Samples from each batch are biologically tested to certify them free of RNase, DNase, and DNA. Every package contains a PCR certificate for your convenience and documentation.

### Innovative Product Design

#### Secure, Easy Sealing

Specially designed caps create a tight seal that is still easy to open and close. Strip tubes are available in individually attached cap versions.

#### High Efficiency, Reduced Variability

Uniform, ultra thin well walls deliver maximum and consistent heat transfer for equally high performance from every sample.

#### Evaporation Protection

Raised rim design around each well enables secure sealing and safeguards against evaporation.

#### Consistent Results from A1 to H12

Reinforced plate decks and ultra rigid options prevent plate warping and keep heat transfer consistent across the entire plate.

Amplify **with confidence**



# Optimized for qPCR

## Increased Sensitivity...

### White plates give maximum signal reflection

Our white plates reflect significantly more signal than traditional clear plates. The improved signal reflection ensures that even the lowest levels of fluorescence are detected.

### Ultra-clear seals allow for maximum signal transmission

Our ABsolute qPCR adhesive seal features a pressure sensitive sealing design. This non-tacky adhesive only binds to the well rims upon application of pressure. This creates a strong seal only where it is needed, and leaves well openings ultra-clear for maximum fluorescence transmission.

...for improved detection of low copy number targets.

As with any fluorescence based assay, quantitative PCR requires specialized plastics to achieve optimal results. Thermo Scientific ABgene white qPCR plates and Absolute qPCR seals are designed to enable sensitive and accurate fluorescence detection. When used together, these products will increase sensitivity and reduce variability in your qPCR assay.

### White plates reflect significantly more signal than clear plates

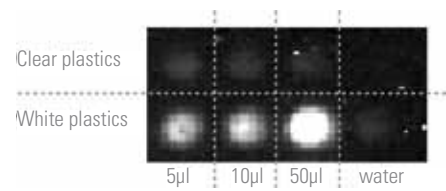


Figure 1: Three dilutions of fluorescein were added to either white or clear plates and detected using a CCD camera. White plastic reflects signal more effectively than clear plates resulting in a higher signal to noise ratio.

### Increased signal reflection leads to lower Cq values

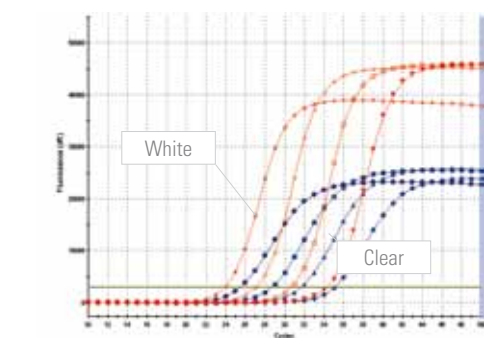


Figure 2: qPCR amplification of GAPDH using 100 ng, 10 ng, 1 ng and 100 pg of human genomic DNA. Red amplification plots representing the white plates show earlier Cq values and higher end-point fluorescence compared to the blue plots for the natural plates.

## Reduced Variability...

### White well walls enable consistent signal reflection

White well walls prevent signal from passing through to the cyclor block where it can be inconsistently reflected or absorbed. This keeps variations in the cyclor block from affecting your qPCR data.

### High quality seal manufacture ensures consistent signal transmission and secure sealing

ABsolute qPCR seals are precision manufactured for consistent seal thickness and transparency, resulting in equal signal transmission across the entire plate. The pressure sensitive adhesive used creates a secure bond to minimize evaporation and maintain high PCR efficiency in each sample.

...for tighter technical replicates and improved assay reproducibility.

### White well walls prevent signal refraction and absorption

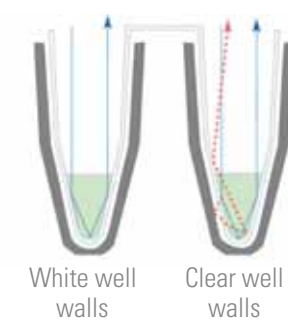


Figure 3: Clear well walls allow signal refraction through to the cyclor block where it can be partially absorbed, introducing well-to-well variability. White well walls are non-transparent and isolate the signal to prevent signal loss.

### Reduced well-to-well variability produces more consistent qPCR data

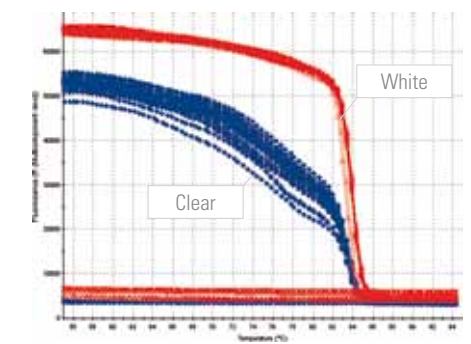


Figure 4: Melting profiles of GAPDH amplicons in white plates (red) and clear plates (blue) across four 10-fold dilutions of human genomic DNA. Signal refraction has introduced increased variability in clear plates.

## Make the switch to Blue

Thermo Scientific ABsolute Blue qPCR reagents contain an inert blue dye and make it easy to work within white plastics:

- See your reagents as you pipette
- Track your progress across multiple wells
- Visually assess your set-up

For more information, visit [www.thermo.com/blueqpcr](http://www.thermo.com/blueqpcr)

Also available: qPCR strip tubes for lower throughput applications

ABsolute qPCR seal with pressure sensitive adhesive (AB-1170)  
ABgene white qPCR plates (available for all plate options)

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# PCR Tubes & Strips



## Individual Tubes

- Compatible with standard 0.2 mL or 0.5 mL thermal cycler blocks
- Caps form a secure seal, yet are easy to open and close
- Pack size: 1000 Tubes

w/Flat Caps	w/Domed Caps		w/Flat Caps	w/Domed Caps
Clear	Clear	0.2 mL	Clear	Clear
AB-0620	AB-0337		AB-0350	AB-0489
Assorted Colors	Assorted Colors	0.5 mL	Assorted Colors	Assorted Colors
AB-0622	AB-0491		AB-0533	AB-0535

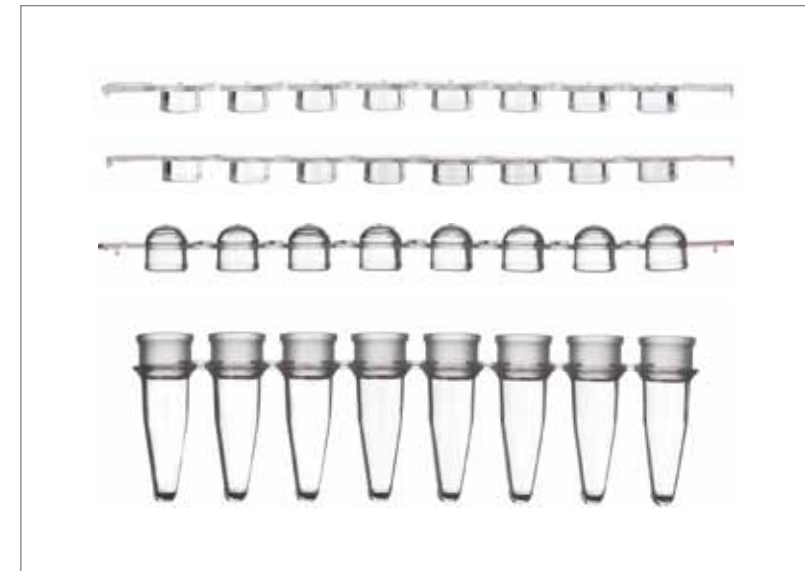
— 0.2 mL

0.5 mL

**NEW** EasyStrips -  
Attached Cap Strip Tubes

- PCR strip tubes with individually attached caps for easy sample access
- Compatible with 0.2 mL thermal cycler blocks
- Ultra clear cap options ideal for use in qPCR assays
- Pack Size: 250 strips

w/Domed Caps	w/Ultra-Clear Flat Caps
Clear	Clear
AB-1504	AB-1502
	w/ White Tubes
	AB-1502/W



## 0.2 mL Strip Tubes

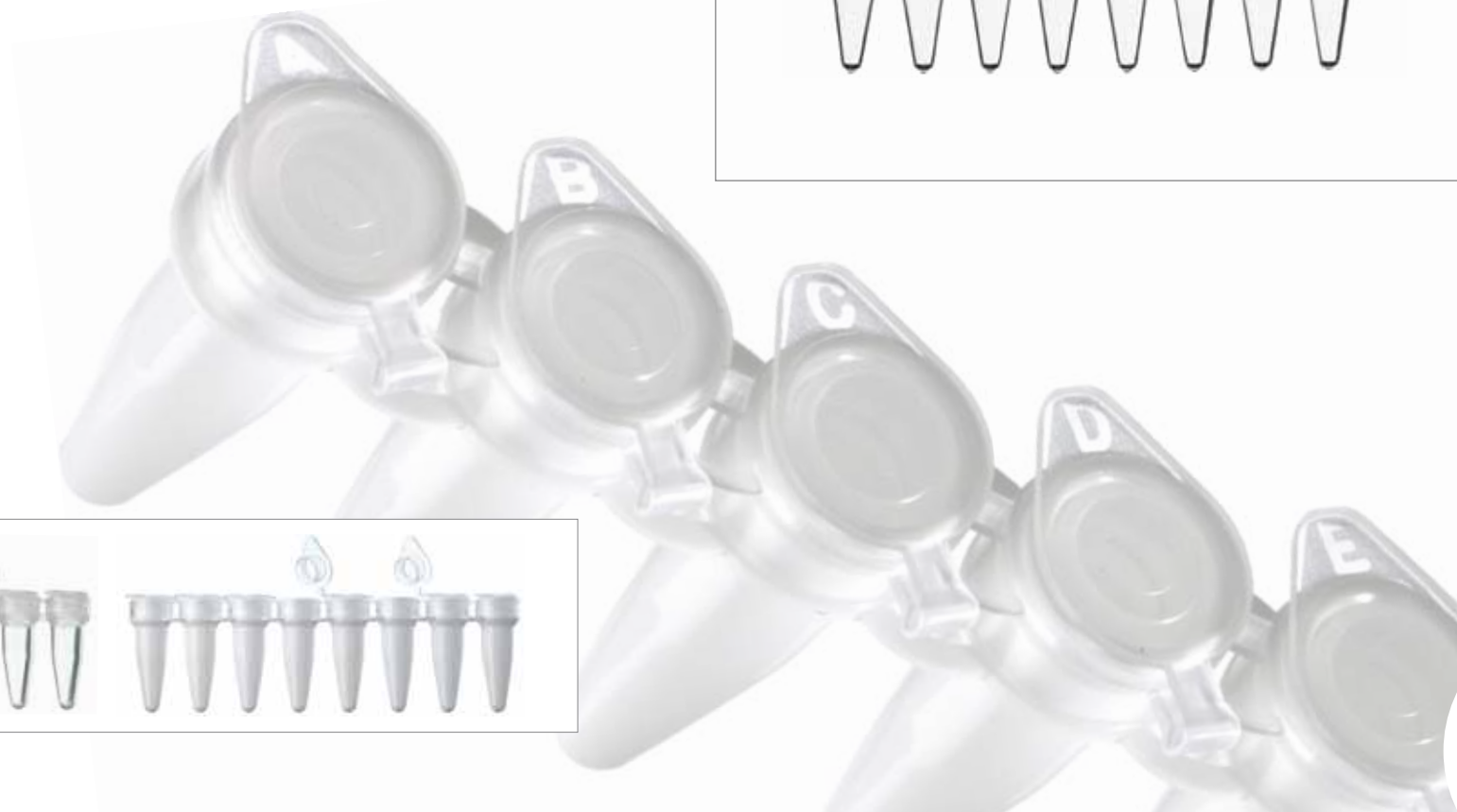
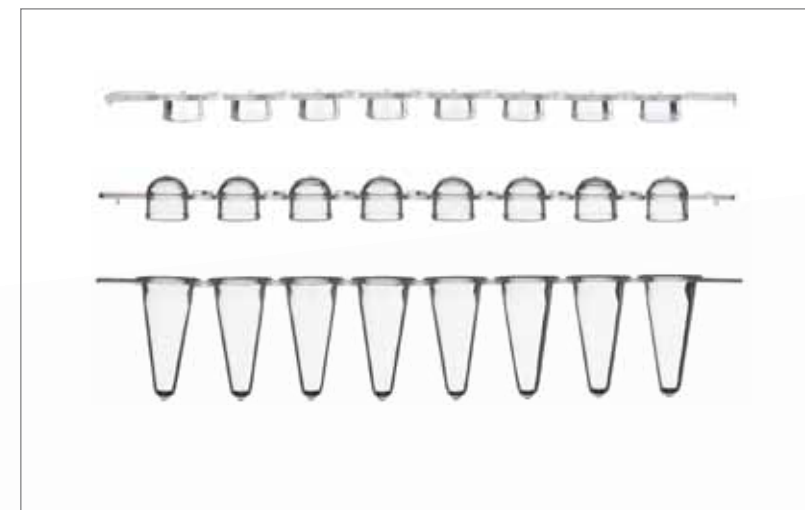
- Compatible with 0.2 mL thermal cycler blocks
- Ultra clear options ideal for use in qPCR assays
- Caps form a secure seal, yet are easy to apply and remove
- 8 tubes per strip

w/Flat Caps	w/Domed Caps	w/Ultra Clear Caps
<b>Clear</b> AB-1182	<b>Clear</b> AB-0266	<b>Clear</b> AB-1183
<b>Assorted Colors</b> AB-0496	<b>Assorted Colors</b> AB-0490	<b>White</b> AB-1191

## Low Profile Strip Tubes

- Ideal strip for reaction volumes below 20 µl
- Compatible with 0.2 mL thermal cycler blocks
- Low profile to reduce dead space and increase PCR efficiency
- Labelled A-H end tabs
- Pack Size: 250 Tube Strips / Cap Strips

w/Flat Caps	w/Domed Caps	w/Ultra Clear Caps
<b>Clear</b>	<b>Clear</b>	<b>Clear</b>
AB-0776	AB-0775	AB-1770
<b>Assorted Colors</b>	<b>Assorted Colors</b>	<b>White</b>
AB-0778	AB-0777	AB-1771



Also available:  
**Segmented  
Plates**

# 96-Well PCR Plates



## Fully Skirted, Low Profile

- SBS footprint and stackable for use in automated systems
- Low profile to reduce dead space and increase PCR efficiency
- Cut Corner: H1
- Pack Size: 25 Plates

### Choose Your Preferred Format:

Clear	Clear w/Barcode	White for qPCR	White w/Barcode	Colors
AB-0800	BC-0800	AB-0800/W <div>qPCR</div>	BC-0800/W <div>qPCR</div>	<div>AB-0800/B</div> <div>AB-0800/G</div> <div>AB-0800/P</div> <div>AB-0800/R</div> <div>AB-0800/Y</div>

SuperPlate Version: 4x more rigid for superior robotic handling				
Clear	Clear w/Barcode	White for qPCR	White w/Barcode	Colors
AB-2800	BC-2800	AB-2800/W <div>qPCR</div>	BC-2800/W <div>qPCR</div>	<div>AB-2800/B</div> <div>AB-2800/G</div> <div>AB-2800/P</div> <div>AB-2800/R</div> <div>AB-2800/Y</div>

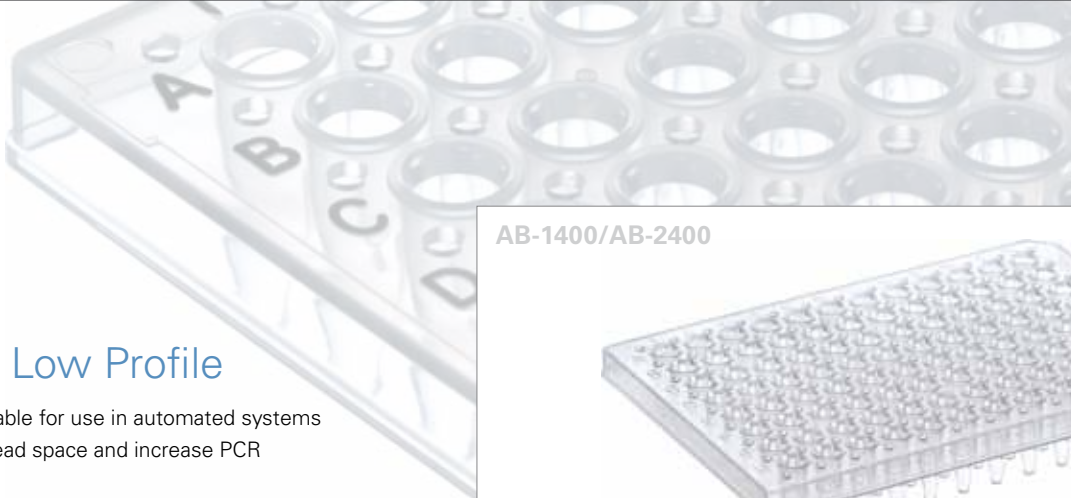


## Semi-Skirted, Fast Block

- Directly compatible with all ABI thermal cycler fast blocks with no adapters necessary
- Raised Deck of plate to aid in spill prevention
- Cut Corner: A1
- Pack Size: 25 Plates

### Choose Your Preferred Format:

Clear	Clear w/Barcode	White for qPCR	White w/Barcode	Colors
AB-1900	BC-1900	AB-1900/W <div>qPCR</div>	BC-1900/W <div>qPCR</div>	<div>AB-1900/B</div> <div>AB-1900/G</div> <div>AB-1900/P</div> <div>AB-1900/R</div> <div>AB-1900/Y</div>



AB-1400/AB-2400

A12

## Semi-Skirted, Flat Deck

- Directly compatible with all ABI platforms including sequencers with no adapters necessary
- Flat Deck of plate facilitates sealing and handling
- Cut Corner: A12
- Pack Size: 25 Plates

### Choose Your Preferred Format:

Clear	Clear w/Barcode	White for qPCR	White w/Barcode	Colors
AB-1400	BC-1400	AB-1400/W <div>qPCR</div>	BC-1400/W <div>qPCR</div>	<div>AB-1400/B</div> <div>AB-1400/G</div> <div>AB-1400/P</div> <div>AB-1400/R</div> <div>AB-1400/Y</div>

SuperPlate Version: 4x more rigid for superior robotic handling				
Clear	Clear w/Barcode	White for qPCR	White w/Barcode	Colors
AB-2400	BC-2400	AB-2400/W <div>qPCR</div>	BC-2400/W <div>qPCR</div>	<div>AB-2400/B</div> <div>AB-2400/G</div> <div>AB-2400/P</div> <div>AB-2400/R</div> <div>AB-2400/Y</div>



## Semi-Skirted, Raised Deck

- Directly compatible with all ABI platforms including sequencers with no adapters necessary
- Raised Deck of plate to aid in spill prevention
- Cut Corner: A12
- Pack Size: 25 Plates

### Choose Your Preferred Format:

Clear	Clear w/Barcode	White for qPCR	White w/Barcode	Colors
AB-1100	BC-1100	AB-1100/W <div>qPCR</div>	BC-1100/W <div>qPCR</div>	<div>AB-1100/B</div> <div>AB-1100/G</div> <div>AB-1100/P</div> <div>AB-1100/R</div> <div>AB-1100/Y</div>

SuperPlate Version: 4x more rigid for superior robotic handling				
Clear	Clear w/Barcode	White for qPCR	White w/Barcode	Colors
AB-2100	BC-2100	AB-2100/W <div>qPCR</div>	BC-2100/W <div>qPCR</div>	<div>AB-2100/B</div> <div>AB-2100/G</div> <div>AB-2100/P</div> <div>AB-2100/R</div> <div>AB-2100/Y</div>



# 96-Well PCR Plates



## Semi-Skirted, Segmented

- Patented segmented plate design allows plates to be cut into 24 and 48 well sections
- Semi Skirt adds rigidity and allows for labeling or barcoding
- Cut corner: H1
- Pack Size: 25 Plates

Choose Your Preferred Format:



Clear	Clear w/Barcode	White	White w/Barcode	Colors
AB-0900	BC-0900	AB-0900/W 	BC-0900/W 	<div>AB-0900/B</div> <div>AB-0900/G</div> <div>AB-0900/P</div> <div>AB-0900/R</div> <div>AB-0900/Y</div>



## Semi-Skirted, Segmented (Pre-Cut)

- Conveniently pre-cut into 24 or 48 well segments
- Semi Skirt adds rigidity and allows for labeling or barcoding
- Pack Size: 50 Plates

Choose Your Preferred Format:


24-Well Clear	24-Well White	24-Well Colors	48-Well Clear	48-Well White	48-Well Colors
AB-0624	AB-0624/W 	<div>AB-0624/B</div> <div>AB-0624/G</div> <div>AB-0624/P</div> <div>AB-0624/R</div> <div>AB-0624/Y</div>	AB-0648	AB-0648/W 	<div>AB-0648/B</div> <div>AB-0648/G</div> <div>AB-0648/P</div> <div>AB-0648/R</div> <div>AB-0648/Y</div>



## Non-Skirted, Low Profile

- Low profile to reduce dead space and increase PCR efficiency
- Available with black alpha-numeric lettering
- Improved access for liquid handling
- Cut Corner: H12
- Pack Size: 25 Plates

Choose Your Preferred Format:


Clear	Clear w/Black Letters	White	Colors
AB-0700	AB-0700-L	AB-0700/W 	<div>AB-0700/B</div> <div>AB-0700/G</div> <div>AB-0700/P</div> <div>AB-0700/R</div> <div>AB-0700/Y</div>



## Non-Skirted, Standard

- Non-skirted format compatible with most thermal cyclers
- Available with black alpha-numeric lettering
- Cut Corner: H1
- Pack Size: 25 Plates

Choose Your Preferred Format:

Clear	Clear w/Black Letters	White	Colors
AB-0600	AB-0600-L	AB-0600/W 	<div>AB-0600/B</div> <div>AB-0600/G</div> <div>AB-0600/P</div> <div>AB-0600/R</div> <div>AB-0600/Y</div>



Cycler Compatibility

Barcoding Information

qPCR Information

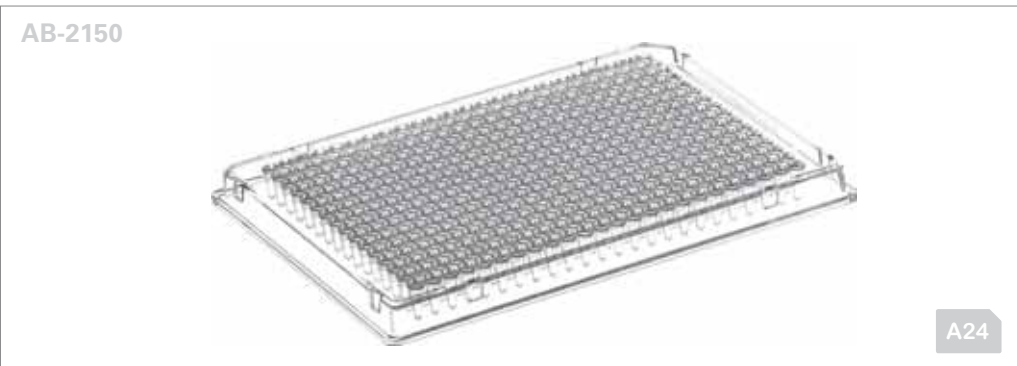
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# 384-Well PCR Plates



- Full Skirted, Diamond Ultra**
- Ultra rigid plate for high throughput robotic applications
  - Proprietary inert polymer will not bind reaction components
  - Working well volume: 25 µL
  - Cut Corner: A24
  - Pack Size: 50 Plates

Choose Your Preferred Format:

Clear AB-2150	Clear w/Barcode BC-3150	White AB-2150/W	White w/Barcode BC-3151	Colors Enquire
		qPCR	qPCR	



- Full Skirted, Standard**
- Fully skirted for use with automated systems
  - Compatible with all leading 384 block thermal cyclers
  - Working well volume: 25 µL
  - Cut Corner: A24
  - Pack Size: 50 Plates

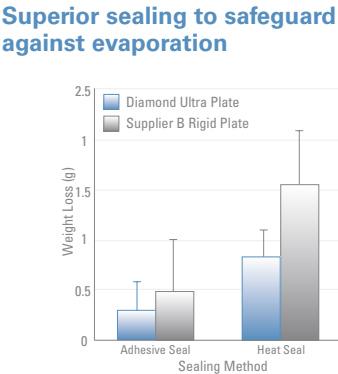
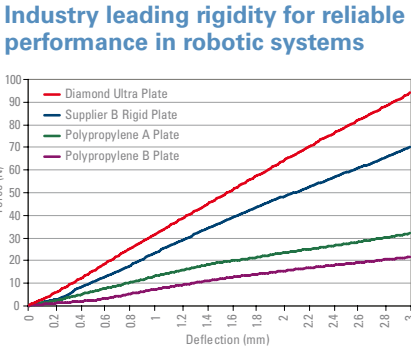
Choose Your Preferred Format:

Clear AB-1384	Clear w/Barcode BC-1384	White AB-1384/W	White w/Barcode BC-1384/W	Colors
		qPCR	qPCR	AB-1384/B AB-1384/G AB-1384/P AB-1384/R AB-1384/Y

## The Ultimate Plate for Robotic Platforms

The Thermo Scientific ABgene Diamond Ultra PCR plate offers ultimate rigidity for reliable performance in high-throughput robotic handling systems. By minimizing warping during thermal cycling and heat sealing, plate dimensions remain consistent and seal integrity remains strong, delivering unparalleled performance in automated PCR and sequencing applications.

- Superior resistance to warping during thermal cycling
- Optically clear wells and skirt allow for quick and easy visual plate checks
- Ultra-strong seal integrity with either heat or adhesive seals to safeguard against evaporation
- Decreased splash-back during pipetting for seamless liquid handling



[www.thermo.com/diamond](http://www.thermo.com/diamond)



- Full Skirted, Extra Volume**
- Tall Chimney well design
  - Increased well volume accommodates sequencing and wash steps
  - Working well volume: 40 µL
  - Cut Corner: A24
  - Pack Size: 50 Plates

Choose Your Preferred Format:






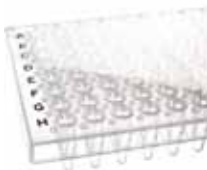



Clear AB-0937	Clear w/Barcode BC-0937	White AB-0937/W	White w/Barcode BC-0937/W	Colors
		qPCR	qPCR	AB-0937/B AB-0937/G AB-0937/P AB-0937/R AB-0937/Y

Cycler Compatibility  
Barcoding Information  
qPCR Information

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# Sealing Options

We offer a wide range of robust sealing options to suit any application. All of our sealing products are designed to provide the ultimate in sample protection while also being easy to use. Our qPCR sealing options are optically clear to deliver maximum and consistent signal transmission critical to accurate qPCR results.

		PCR Cap Strips					Adhesive Seals				Storage Plate Sealing								
		Flat Cap Strips <sup>2</sup>	Domed <sup>2</sup> Cap Strips	Ultra-Clear qPCR Cap Strips	PCR Foil Seal	PCR Film Seal			ABsolute qPCR Seal	Crystallography Seal	Gas Permeable Seal	Plate Seal	Storage Plate Caps and Cap Strips		Sealing Mat (Pierceable)		Sealing Mat (Autoclavable)		384 Multisip Septum Cap Mat
Part No.		AB-0784 (8 Caps per Strip)	AB-0265 (8 Caps per Strip)	AB-0866 (8 Caps per Strip)	AB-0626	AB-0558			AB-1170	AB-1450	AB-0718	AB-0580	AB-1179	AB-0981	AB-0566 (Round Well)	AB-0662 (Square Well)	AB-0674 (Round Well)	AB-0675 (Square Well)	AB-1171
Pack Size		250 Strips	250 Strips	120 Strips	100 Sheets	100 Sheets			50 Sheets	50 Sheets	50 Sheets	100 Sheets	960 Caps	120 Strips of 8 Caps	50 Mats	50 Mats	50 Mats	50 Mats	50 Mats
Applications	PCR (including waterbath)	✓	✓	✓	✓	✓			✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓
	qPCR	✗	✗	✓	✗	✗			✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
	Sealing Temp Range	-20°C to +120°C	-20°C to +120°C	-20°C to +120°C	-80°C to +150°C	-20°C to +120°C			-80°C to +110°C	-70°C to +110°C	-20°C to +80°C	-40°C to +80°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +130°C	-20°C to +120°C	-20°C to +120°C	-20°C to +120°C
	Long Term Storage	✓	✓	✓	✓	✓			✗	✗	✗	✓	✓	✓	✓	✓	✗	✗	✗
Mechanical Properties	Pierceable	✗	✗	✗	8.1 N	✗			✗	✗	✗	✗	✗	6 N	✗	✗	✗	<0.5 N	<0.5 N
	Peelable	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Resealable	✓	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓
	Thickness <sup>1</sup>				75 µm	255 µm			100 µm	100 µm	170 µm	55 µm							
Resistance	DMSO (100%)	✓	✓	✓	✓	✗			✓	✓	✗	✗	✓	✓	✗	✗	✗	✓	✓
	Ethanol (100%)	✓	✓	✓	✗	✗			✓	✓	✗	✗	✓	✓	✗	✗	✗	✓	✓
	Isopropanol (100%)	✓	✓	✓	✗	✗			✓	✓	✗	✗	✓	✓	✗	✗	✗	✓	✓
	Autoclavable	✓	✓	✓							✗	✗	✓	✓	✓	✓	✓	✓	✓
	UV Irradiation	✓	✓	✓							✓	✓	✓	✓	✓	✓	✓	✓	✓
	Gamma Irradiation	✓	✓	✓							✓	✓	✓	✓	✓	✓	✓	✓	✓
Compatible Products	Applicator Tools	AB-0536	AB-0536	AB-0536					AB-1391	AB-1391									
	Tubes/Plates	8-Strip PCR Tubes 96-Well PCR Plates	8-Strip PCR Tubes 96-Well PCR Plates	8-Strip PCR Tubes 96-Well PCR Plates	All Plates <sup>3</sup>	All Plates <sup>3</sup>			All Plates	All Plates <sup>3</sup>	All Plates <sup>3</sup>	All Plates <sup>3</sup>	Storage Plates	Storage Plates	Storage Plates	Storage Plates	Storage Plates	Storage Plates	Storage Plates
					 				   				  						

**Legend**  
✓ Successfully tested  
✗ Not recommended

<sup>1</sup>Does not include release liner.  
<sup>2</sup>Choose cap shape according to the instrument manufacturer's recommendation.  
<sup>3</sup>Except Diamond Ultra.

Streamline your molecular biology applications with our storage and assay plates. All plates are manufactured in our cleanroom facility to ensure molecular grade quality. Our wide range of plates provides excellent solutions for sample storage and assay set-up, allowing dilutions and aliquots to be handled, stored or transported easily. All plates are SBS format for compatibility with automated systems. To further assist in storage and tracking, all plates can be supplied with custom barcoding. (See page 20-21)

## Well Bottom

**\*Plastic Polymer Resistance**

**Polypropylene**  
DMSO (100%)  
Ethanol (100%)  
Isopropanol (100%);  
Autoclave (15 min at 121°C)  
Gamma Irradiation

## Round Wells

- Designed for optimal sample recovery
- Each well specifically designed with an independent sealing rim to prevent cross contamination
- Ideally suited for use with the widest range of sealing options

## Square Wells

- Angled well corners reduce the capillary action of liquids, preventing cross-contamination between wells
- Square shape maximizes well volume within SBS footprint design

**U-bottomed**

- Ideally suited for sample resuspension

**V-bottomed**

- Virtually eliminates dead volume in tubes during liquid handling

### Conical/Pyramidal

- Improved sample recovery and decreased dead volume



# Barcoding Options

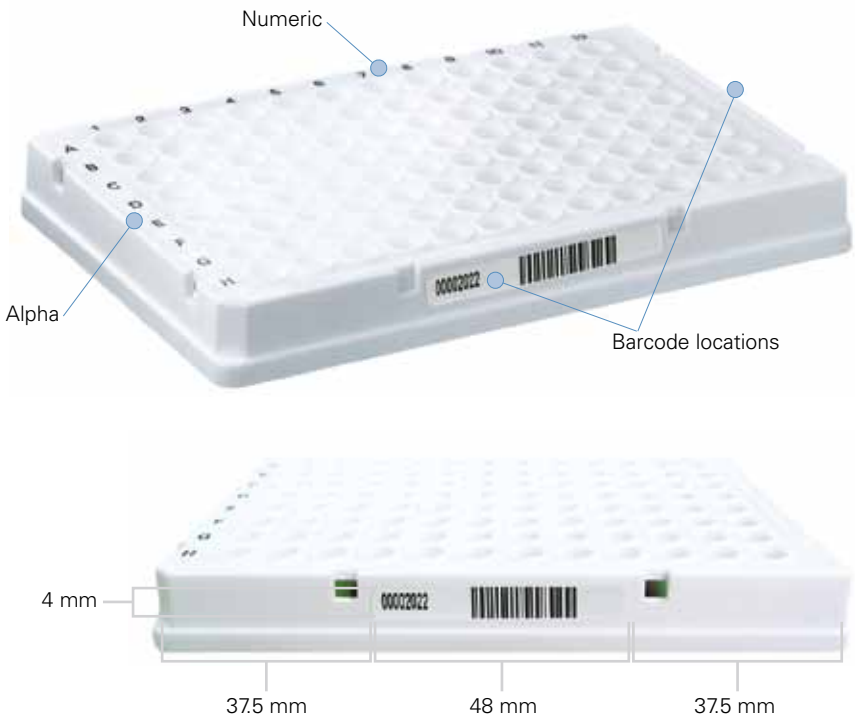
## Add reliable tracking to your PCR workflow

Streamline your sample tracking with barcoded PCR plates. All Thermo Scientific ABgene fully skirted and semi-skirted PCR plates are available with random off-the-shelf barcoding or custom barcoding for complete flexibility. All of our barcodes deliver reliable reading performance and industry leading durability for secure and efficient tracking.

Barcode labels are scratch resistant and are able to withstand chemical exposures and wide temperature extremes; from the high temperature cycles of PCR down to freezing in liquid phase nitrogen.

### Off-the-shelf Barcoded Plates

Our off-the-shelf barcoded plates can be ordered immediately, and are available for each fully skirted and semi-skirted PCR plate model. The barcode has been carefully designed and positioned for compatibility with all major barcode readers. Codes are random and each barcode also includes a human readable format as a back-up, to ensure valuable samples can always be identified.



#### Compatibility

Our off-the-shelf industry standard 128 barcode is compatible with most barcode readers. To **choose the right plate type** for your instrument, please see the plate compatibility table on **page 3**.

Page  
3

#### Choose Thermo Scientific ABgene Barcodes

- Wide temperature tolerance (-196°C to +120°C)
- Proprietary coating for superior scratch-resistance
- Precise sizing and placement for reliable scanning

## Custom Barcoding Services

Do you have specific requirements not met by our off-the-shelf Code 128 barcoded plates? Our custom barcode services are flexible enough to meet your unique tracking specifications. These services utilize our durable barcodes and apply them in your preferred configuration or format, with any sequence, on any plate. Let us solve your tracking needs with our wide range of options.

### Design the perfect barcoding solution to fit your unique needs

Choose Thermo Scientific ABgene for the ultimate in barcoding flexibility

#### Plate Type

Any fully skirted or semi-skirted plate from the entire range of PCR and storage plates

#### Barcode Format

Code 128, Code 39, Interleaved 2 of 5, with flexible human-readable code position

#### Label Size

Available in standard label sizes or customizable according to requirements

#### Barcode Density

Range of dimensions available

#### Sequence

You determine start to end sequence and alpha-numeric pattern

#### Positioning

Any code on any side, all the same code or varied

### Barcode format options

Barcode Type		
Code 128	A0000002	
Code 39	A0000002	
Interleaved 2 of 5	0000001	
x-dimension	7 mils	
	13 mils	
	17 mils	

### Minimum Order Requirements

**1000 plate minimum orders.** Smaller quantities may be possible, but are subject to an order fee. Please enquire.

To order your barcoding solution today, visit [www.thermo.com/custombarcodes](http://www.thermo.com/custombarcodes)

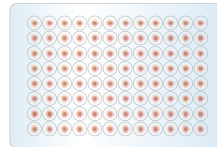
## Custom Solutions for High-Throughput PCR

Thermo Scientific Custom Aliquoting Services can significantly streamline your process and increase your PCR productivity. Our Custom Aliquoting Service can provide any of our PCR and qPCR mixes pre-aliquoted into our high quality PCR plastics. Save time, money, and effort by letting our PCR focused manufacturing facility, state-of-the-art instruments, and skilled production staff supply you with reliable, quality controlled, pre-filled PCR plastics.

**Order your PCR plastics  
pre-filled with the  
reagent of your choice:**

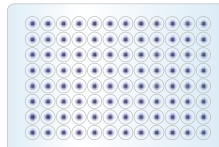
### Standard PCR Reagent Systems:

- Standard Taq
- High Yield
- Hot-Start
- High Fidelity
- Long Range



### Quantitative PCR Reagent Systems:

- Probe Based and SYBR Based qPCR
- Fast qPCR



Blue colored master mixes for easy visualization and use of white qPCR plastics for optimal qPCR results

**Let Thermo Scientific Custom Aliquoting Services Streamline Your PCR Workflow**

## Simplify Supply Chain & Materials Management

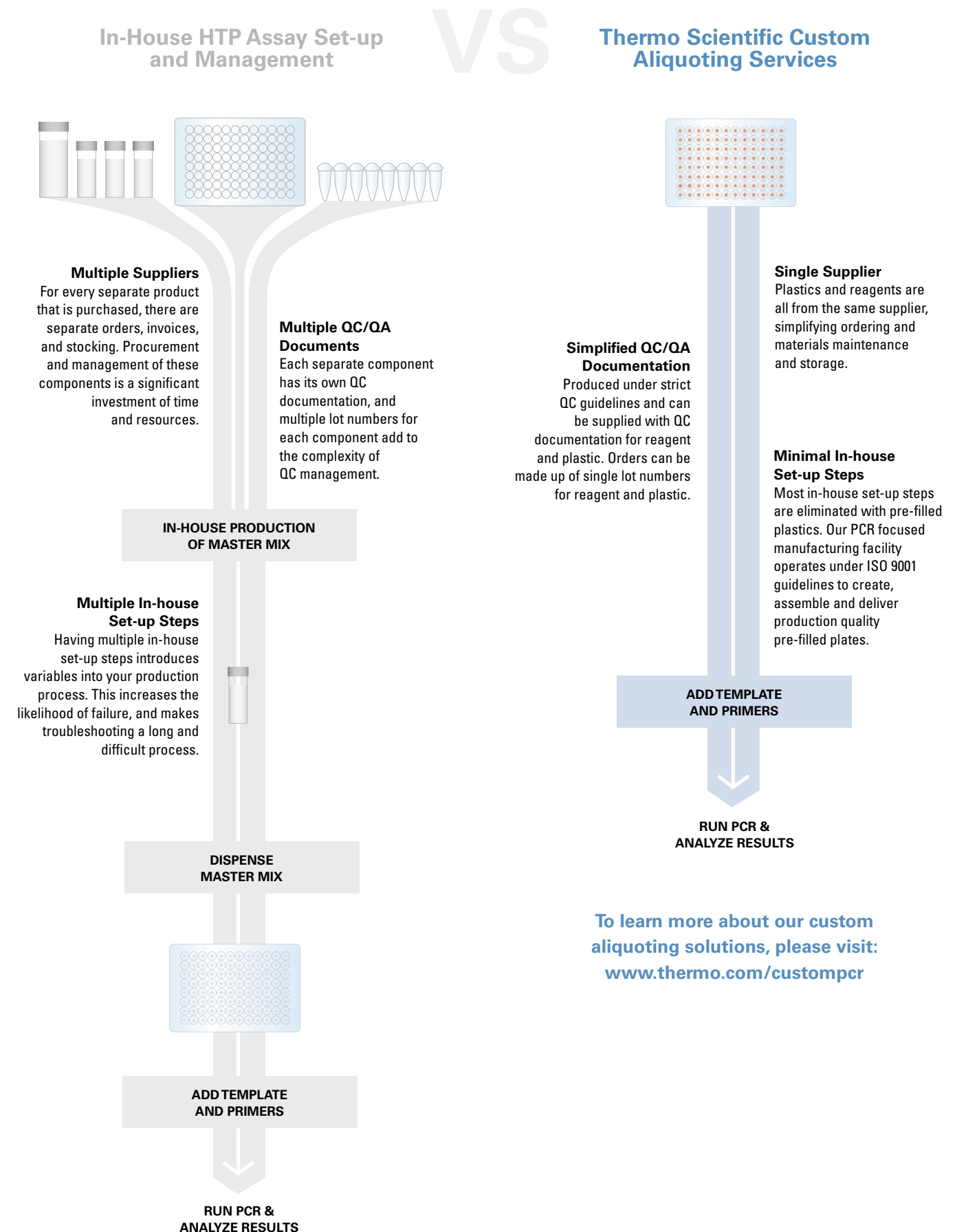
Buying pre-filled PCR plastics greatly simplifies the procurement process. All reagent and plastic components are ordered with a single part number and can be purchased in a single transaction. Standing orders can be set up to deliver regular shipments to match production demand. The supply chain is simplified by having one vendor for all PCR consumables, and stock management is far easier when the products arrive in a pre-assembled format.

## Improve Quality Control and Documentation

Stop collecting and managing QC documentation from multiple suppliers, for multiple products and lot numbers. All of our pre-aliquoted products are manufactured under strict ISO 9000 quality control guidelines and are supplied with certificates of analysis for each reagent and plastics lot. We can also provide entire orders consisting of a single combination of plastic and reagent lot numbers for easy QC tracking. End the struggle to manage QC data and increase assay reproducibility by switching to our pre-filled PCR plastics.

## Reduce Assay Failure and Increase Productivity

Increase productivity by letting us take care of your reaction mix and aliquoting steps. In-house master mix creation and aliquoting can introduce multiple variables in your production process. Don't waste valuable time and resources troubleshooting through multiple production steps. Let our dedicated PCR manufacturing facility provide you with an uninterrupted supply of cycler-ready, reliable product to keep your project moving.



# Ordering Information

## United States

Fisher Scientific:

Telephone: (800) 766-7000  
To fax an order: (800) 926-1166  
Order online: [www.fishersci.com](http://www.fishersci.com)  
Detailed product information: [www.thermo.com/pcrproducts](http://www.thermo.com/pcrproducts)

## United Kingdom

Direct:

Telephone: 01372 723456  
To fax an order: 01372 741414  
Order online: [www.thermo.com/abgene](http://www.thermo.com/abgene)

## Canada

Fisher Scientific:

Telephone: (800) 234-7437  
To fax an order: (800) 463-2996  
Order online: [www.fishersci.ca](http://www.fishersci.ca)

## France

Dominique Dutscher:

Telephone: 03 88 59 33 90  
To fax an order: 03 88 59 33 99  
Order online: [www.dutscher.com](http://www.dutscher.com)

Fisher Scientific:

Telephone: 03 88 67 53 23  
To fax an order: 03 88 67 85 11  
Order online: [www.fr.fishersci.com](http://www.fr.fishersci.com)

## Germany

Direct:

Telephone: 040 23 00 21  
To fax an order: 040 23 00 55  
Order online: [www.thermo.com/abgene](http://www.thermo.com/abgene)

## Rest of World

Please refer to our Distributor listing by visiting [www.thermo.com/PCRcontact](http://www.thermo.com/PCRcontact)

### Need help? Contact your local PCR technical support team

#### United States and Canada

Telephone: (800) 235-9880      [abgeneus.techservice@thermofisher.com](mailto:abgeneus.techservice@thermofisher.com)

#### United Kingdom

Telephone: 01372 840 410      [abgene.techservice@thermofisher.com](mailto:abgene.techservice@thermofisher.com)

#### France

Telephone: 01 60 92 48 68      [abgene.techservice@thermofisher.com](mailto:abgene.techservice@thermofisher.com)

#### Germany

Telephone: 040 23 51 36 79      [abgene.techservice@thermofisher.com](mailto:abgene.techservice@thermofisher.com)

#### Rest of World

Telephone: +44 1372 840 410      [abgene.techservice@thermofisher.com](mailto:abgene.techservice@thermofisher.com)



## Thermo Scientific ABgene PCR Plastics Selection Guide

