

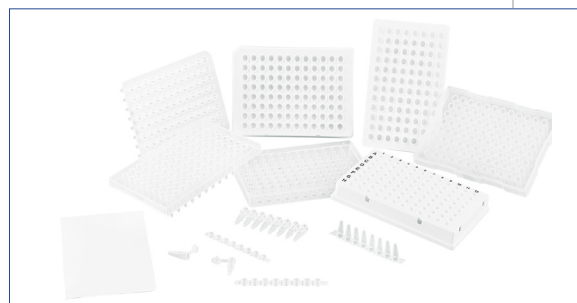
PCR Consumables



GUIDELINES FOR USE

PCR Plate

qPCR plate is a popular laboratory disposable consumable widely used in applications related to medicine, genetics, immunity, biochemistry, and other fields for, cloning, nucleic acid sequence analysis, the diagnosis of diseases, or any research with DNA or RNA. PakGent® PCR plates are designed to fit many popular thermocyclers including brands like ABI/Biorad/Roche/Eppendorf/Agilent/Bioer/Abbott etc. All our PCR disposables are made from 100% virgin polypropylene.

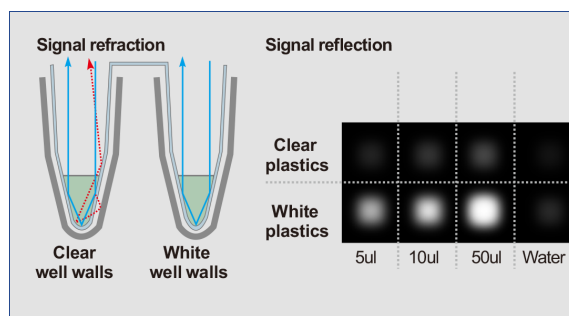
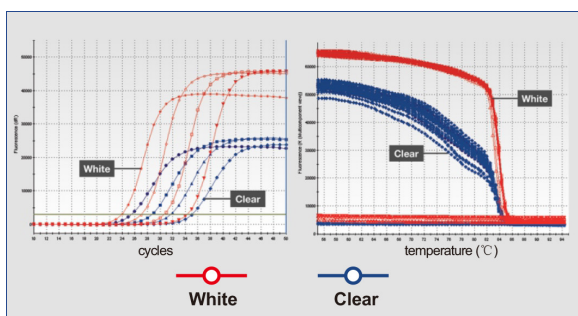


Classification	Description
Material	<ul style="list-style-type: none">• PP.
Skirt	<ul style="list-style-type: none">• Non-skirt, Half skirt, Sub semi-skirt or High-skirt, Full-skirt PCR plate.
Well quantity	<ul style="list-style-type: none">• 96 well PCR plate/384 well PCR plate.
Color	<ul style="list-style-type: none">• White/clear.
Size	<ul style="list-style-type: none">• 40ul/0.1ml/0.2ml PCR plate.

Verify color selection

PCR tubes and plates are often available in a variety of colors to facilitate visual organization and identification of samples, especially for high-throughput experiments. Although the color of the plastic has no impact on DNA amplification, in setting up reactions for real-time PCR or qPCR, white plastics may be recommended over clear to enable sensitive and accurate fluorescence detection. Users should follow recommendations of the qPCR instrument manufacturer for color considerations.

White plastics improve the sensitivity and consistency of qPCR data by preventing fluorescence refraction out of the tube. With refraction being minimized, more signal is reflected back to the detector, increasing the signal-to-noise ratio. In addition, the white wall minimizes variation across technical replicates by preventing transmission of fluorescence signals to the thermal cycler block where it can be absorbed or inconsistently reflected. On rare occasions, where the fluorescence detector is oversaturated from increased signal reflection of the white well, frosted wells may be a better alternative.



Note that ultraclear caps or optical seals should be used to seal qPCR tubes and plates in order to enhance sensitivity and reduce variability, since they are specifically designed to allow passage of fluorescence signals without interference.

As shown above, White wells prevent refraction of fluorescence signals and their absorption by the thermal block in qPCR experiments. White plates reflect significantly more signal than clear plates. Three dilutions of fluorescein were added to the plates for comparison.



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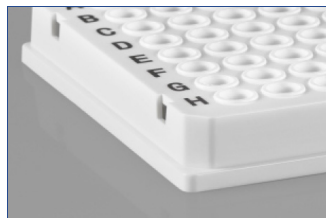
Skirt selection



A **non-skirted** plate lacks the surrounding panel. This format fits blocks of most thermal cyclers and real-time PCR instruments, but it is not suitable for robotic applications.

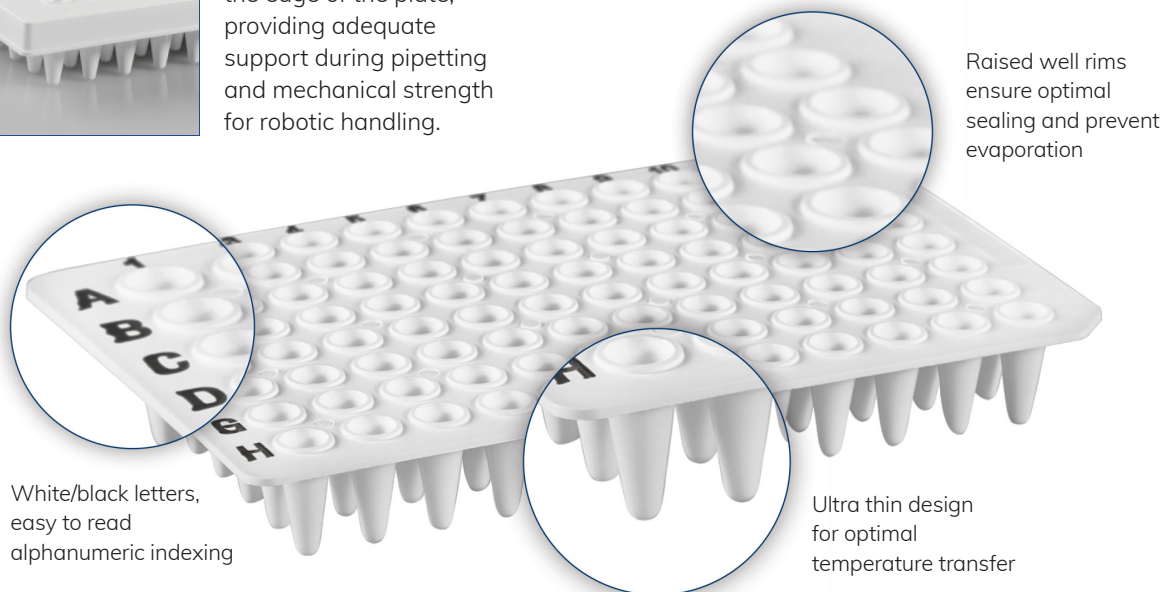


A **semi-skirted** plate has a short panel around the edge of the plate, providing adequate support during pipetting and mechanical strength for robotic handling.



A **full skirted** PCR/qPCR plate has a full-height panel surrounding the plate. This plate format is designed to fit securely over a thermal cycler with a raised block (which facilitates robotic handling).

The full skirt also enhances mechanical strength, making it excellent for use with robotic platforms in an automated workflow.



Raised well rims ensure optimal sealing and prevent evaporation

White/black letters, easy to read alphanumeric indexing

Ultra thin design for optimal temperature transfer

Part No.	Skirt	Option	Colour	Identification Color	Pack
PCRP-20NS	Non-skirt	0.2ml 96-well	clear	■ ■	10/box, 10boxs/case
PCRP-10NS	Non-skirt	0.1ml 96-well	clear	■ ■	10/box, 10boxs/case
PCRP-20NS-W	Non-skirt	0.2ml 96-well	white	■ ■	10/box, 10boxs/case
PCRP-10NS-W	Non-skirt	0.1ml 96-well	white	■ ■	10/box, 10boxs/case
PCRP-20HS	Half skirt	0.2ml 96-well	clear	■ ■	10/box, 10boxs/case
PCRP-20HS-W	Half skirt	0.1ml 96-well	white	■ ■	10/box, 10boxs/case
PCRP-10HSR	Half skirt	0.1ml 96-well	clear	■	10/box, 10boxs/case
PCRP-10HSR-W	Half skirt	0.1ml 96-well	white	■	10/box, 10boxs/case
PCRP-20IS	Sub semi-skirt	0.2ml 96-well	clear	■	10/box, 10boxs/case
PCRP-10IS	Sub semi-skirt	0.1ml 96-well	clear	■	10/box, 10boxs/case
PCRP-10FS	Full-skirt	0.1ml 96-well	white base, clear wells	■	10/box, 10boxs/case
PCRP-10FS-W	Full-skirt	0.1ml 96-well	white base, white wells	■	10/box, 10boxs/case
PCRP-20FS	Full-skirt	0.2ml 96-well	white base, clear wells	■	10/box, 10boxs/case
PCRP-20FS-W	Full-skirt	0.2ml 96-well	white base, white wells	■	10/box, 10boxs/case
PCRP-40FS-384C	Full-skirt	40µL384-well	white base, clear wells	■	10/box, 10boxs/case
PCRP-40FS-384C-W	Full-skirt	40µL384-well	white base, white wells	■	10/box, 10boxs/case

Note: Letter printing color (■ black ■ white). Please note identification color when placing order



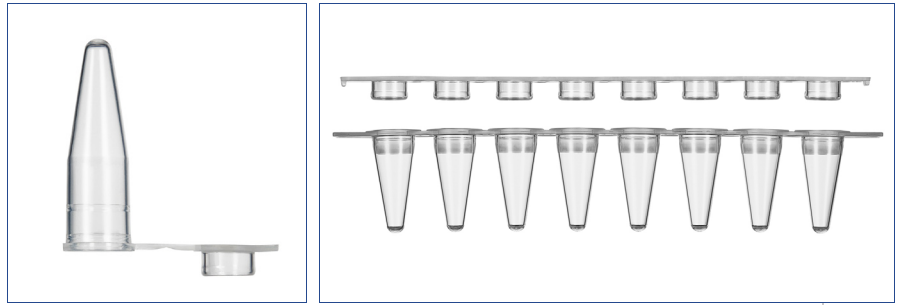
Dynalon[®]
Labware



PCR Tube

Individual tubes provide the flexibility of setting up the exact number of reactions to run.

8-Strip PCR Tubes with separate or attached caps. Designed to work with both single-channel and multi-channel pipettes, tube strips are suitable for low- and medium-throughput experiments. Those with attached caps offer the option of opening and closing the tubes independently to prevent sample contamination.



Part No.	Option	Color	Pack
PCRS-20F	0.2ml 8-Strip	clear tube	125/unit, 10units/case
PCRS-20F-W	0.2ml 8-Strip	white tube	125/unit, 10units/case
PCRS-10F	0.1ml 8-Strip	clear tube	125/unit, 10units/case
PCRS-10F-W	0.1ml 8-Strip	white tube	125/unit, 10units/case
PCRT-20F	0.2ml Individual tube	clear tube	1,000/unit, 10units/case

PCR Sealing Film (works for all kinds of plates)

Polyester seals feature a strong adhesive to minimize evaporation during PCR and storage applications.

- Ideal for PCR & storage
- Certified Dnase and Rnase free
- Temperature range is -40 to +120 °C
- Minimizes evaporation

Part No.	Color	Pack
PCRF-C	clear	100/unit



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PCR Plate Selection Guide

☑ = Compatible ☑ = Recommended

Brand	Product	Part No.	PCR 8 Strip Tube				PCR Tube	PCR Plate											
			PCRS-10F	PCRS-10F-W	PCRS-20F	PCRS-20F-W	PCRT-20F	PCRP-20NS	PCRP-20NS-W	PCRP-10NS	PCRP-10NS-W	PCRP-10HSR	PCRP-10HSR-W	PCRP-20HS	PCRP-20HS-W	PCRP-20IS	PCRP-10IS	PCRP-10FS	
Applied biosystems/ Life technologies	StepOnePlus™ qPCR system		☑	☑				☑	☑								☑		
	StepOne™ qPCR system		☑	☑															
	ViiA™7 fast qPCR 96*0.1ml		☑	☑				☑	☑								☑		
	ViiA™7 qPCR system				☑	☑				☑	☑			☑	☑			☑	
	7500 Fast qPCR system		☑	☑				☑	☑								☑		
	7900HT Fast qPCR system		☑	☑				☑	☑									☑	
	7500 qPCR system				☑	☑				☑	☑		☑	☑				☑	
	7900HT qPCR system						☑												
	QuantStudio™ 12k Flex Fast		☑	☑				☑	☑									☑	
	QuantStudio™ 12k Flex				☑	☑				☑	☑			☑	☑			☑	
	7300 qPCR system				☑	☑				☑	☑		☑	☑				☑	
	7000 ABI PRISM 7000 SDS				☑	☑				☑	☑		☑	☑				☑	
	9700									☑			☑	☑				☑	
	QuantStudio® 3 \Q5\Q6\Q7				☑	☑				☑	☑		☑	☑				☑	
	QuantStudio® 3 \Q5\Q6\Q7fast		☑	☑					☑	☑								☑	
	Veriti 96-Well/Veriti™ Dx 96-Well				☑	☑				☑	☑			☑	☑			☑	
	Veriti FAST 96-Wel/Veriti™ Dx FAST		☑	☑					☑	☑								☑	
	SimpliAmp™				☑	☑					☑	☑		☑	☑			☑	
Bio-Rad Laboratories	CFX96 Touch		☑	☑				☑	☑	☑	☑								☑
	CFX96 Touch Deepwell				☑	☑				☑	☑								
	iQ5 Real-Time PCR				☑	☑				☑	☑								
	iQ Real-Time PCR				☑	☑				☑	☑								
	MyiQ Real-Time PCR				☑	☑				☑	☑								
	MyiQ2 Real-Time PCR				☑	☑													
	Opticon 2		☑	☑					☑	☑									☑
	CFX connect		☑	☑					☑	☑									☑
	T100 pcr		☑	☑	☑	☑			☑	☑	☑	☑							☑
	icycler				☑	☑					☑	☑							
	C1000/ C1000 Touch		☑	☑	☑	☑			☑	☑	☑	☑							☑
	DNA Engine		☑	☑	☑	☑			☑	☑	☑	☑							☑
	MiniOpticon		☑	☑	☑	☑			☑	☑	☑	☑							
	MJ Mini		☑	☑	☑	☑			☑	☑	☑	☑							
	PTC-100		☑	☑	☑	☑			☑	☑	☑	☑							
	S1000		☑	☑	☑	☑			☑	☑	☑	☑							☑
	iCycler 0.2ml*48 0.2ml*96				☑	☑					☑	☑							



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PCR Plate Selection Guide (cont.)

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Brand	Product	Part No.	PCR 8 Strip Tube				PCR Tube	PCR Plate										
			PCRS-10F	PCRS-10F-W	PCRS-20F	PCRS-20F-W	PCRT-20F	PCRP-20NS	PCRP-20NS-W	PCRP-10NS	PCRP-10NS-W	PCRP-10HSR	PCRP-10HSR-W	PCRP-20HS	PCRP-20HS-W	PCRP-20IS	PCRP-10IS	PCRP-10FS
Eppendorf	Mastercycler ep realplex		☑	☑	☑	☑		☑	☑	☑	☑							
	Mastercycler nexus /hexus eco GSX1				☑					☑	☑							
	Mastercycler ep gradient		☑	☑	☑			☑	☑	☑	☑							
	Mastercycler pro/pro S		☑	☑	☑			☑	☑	☑								
	Thermomixer C		☑	☑	☑			☑	☑	☑	☑	☑	☑					
	Thermomixer comfort		☑	☑	☑			☑	☑	☑								
	Mastercycler gradient				☑					☑	☑							
HongShi	SLAN-48P 48				☑				☑									
	SLAN-96P 2*48				☑				☑									
	SLAN-96S				☑				☑				☑	☑				
Roche	Cobas z480			☑					☑			☑	☑					
	LightCycler® 480 System 384-well			☑					☑			☑	☑					
	LightCycler® 480 System			☑					☑			☑	☑					
	LightCycler® 96 System			☑					☑			☑	☑					
	LightCycler® Nano			☑					☑			☑	☑					
Abbott	m2000rt			☑	☑													
Agilent/Stratagena	Mx3000PTM				☑	☑					☑	☑		☑	☑			
	Mx3005PTM				☑	☑					☑	☑						
	Mx4000TM				☑	☑					☑	☑						
	Agilent AriaMX		☑	☑					☑	☑								
	SureCycler 8800 thermal cycler				☑	☑					☑	☑						
Analytik Jena/Biometra	Toptical			☑					☑									
	qTower				☑	☑					☑	☑						
	Tone96/96G				☑	☑					☑	☑						
	Alpha SC 0.2ml*96 0.2ml*48 0.2ml*48*2		☑	☑	☑	☑			☑	☑	☑	☑						
	FlexCycler 0.2ml*96 0.2ml*48		☑	☑	☑	☑			☑	☑	☑	☑						
	TRIO48 0.2ml*48				☑	☑												
	TRIO Combi 0.2ml*48				☑	☑					☑	☑						
SpeedCycler 36				☑	☑													



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PCR Plate Selection Guide (cont.)

= Compatible = Recommended

Brand	Product	Part No.	PCR 8 Strip Tube				PCR Tube	PCR Plate										
			PCRS-10F	PCRS-10F-W	PCRS-20F	PCRS-20F-W	PCRT-20F	PCRP-20NS	PCRP-20NS-W	PCRP-10NS	PCRP-10NS-W	PCRP-10HSR	PCRP-10HSR-W	PCRP-20HS	PCRP-20HS-W	PCRP-20IS	PCRP-10IS	PCRP-10FS
Bioer	Line-Genes I/Mini 16				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>								
	Line-Genes K48				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>								
	Line-Genes 3310/3320				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>								
	Line-Genes 9600				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>								
	Line-Genes 9600plus				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>								
	GenePro B		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>								
	Life ECO Thermal Cycler		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>								
	Life Express TC-96/T/H(a) TC-48/H(t)				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>								
	LifeProTC-96/G/H(b)A		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						
	LifeTouch TC-96/G/H(b)B		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						
	XPcycler TC-XP				<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>							
Xian Tianlong Science	Gentier				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	96E		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
	DTC-4		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
	DTC-4G		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
TaKaRa Bio Inc	Thermal Cycler Dice TP600		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	Thermal Cycler Dice TP650		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
	Thermal Cycler Dice TP850				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>							
	Thermal Cycler Dice TP870				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>							
LongGene	A100		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
	A200		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
	Gradient PCR		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									
	L Series 96		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									
	Multi-Purpose PCR		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									
	MyGene™ PCR		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									
	Q2000C		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								



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