

## PCR Consumables

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# PCR Consumables

## Corning's Extensive Line of Axygen® PCR Products

Corning's extensive line of Axygen PCR products are specifically designed for use within standard, gradient, and real-time PCR applications. A wide variety of sizes, configurations, and colors help researchers organize this multi-step process.

Axygen PCR products offer ultra-thin and consistent wall thickness which allows for precise thermal transfer along the entire surface of the tube. The unique cap design ensures a perfect fit to reduce sample evaporation during thermal cycling. Our tubes and microplates are manufactured using high-end polished molds and are free from endonucleases, pyrogens, lubricants, dyes, heavy metals, and fillers.

### Features

- ▶ Available in a wide variety of sizes, configurations, and colors
- ▶ 0.2 mL and 0.5 mL tubes and PCR microplates fit most popular thermal cyclers (see compatibility chart on pages 48-53).
- ▶ Ultra-thin and consistent wall thickness allows for precise thermal transfer, leading to shorter cycle times and more consistent results
- ▶ Available with domed caps for efficient heat transfer from the thermal cycler's lid or flat cap for easy piercing and labeling
- ▶ Unique cap design reduces sample evaporation
- ▶ RNase-/DNase-/human gDNA-free
- ▶ Nonpyrogenic
- ▶ Bar coding available on skirted microplates
- ▶ Available with Axygen Maximum Recovery® surface by special order





### Axygen® PCR Tubes

PCR tubes require a thin and consistent wall thickness to reduce the insulating effect of the tube. Axxygen PCR tubes are manufactured to the highest quality standards so your results will be consistent every time. PCR tubes with a short cap may allow for sample evaporation during thermal cycling. Axxygen PCR tubes are sealed with a full-length, even, insertion cap which ensures a tight fit and reduces sample evaporation.

### Extensive Array of Plate Sealing Options Suitable for Any Preference or Application

PCR AxyMats are research-grade silicone sealing mats designed for long- or short-term sample storage and PCR. They are autoclavable and reusable.

Compression and expansion AxyMats are ideal for sealing microplates during thermal cycling. Thicker than PCR AxyMats, these form an optimal seal between the cycler's heated lid and the wells, minimizing evaporation and well-to-well contamination. They are autoclavable and reusable.

Axygen 8-strip caps applied to multiwell microplates offer a quick and effective way to seal selected rows and subsequently access individual wells.

HeatSeal is ideal for PCR applications as it eliminates evaporation and well-to-well contamination. It is also useful for sample storage and transport.

AluminumSeal and PolyesterSeal are designed for high throughput screening applications, but is also popular for long-term storage, transport, and PCR.



Bar coding is available on skirted microplates.



Axygen products are manufactured in a clean, controlled "state of the art" facility and are RNase-/DNase-/human gDNA-free and nonpyrogenic.



### Axygen® Automation-compatible PCR Microplate

A unique, one material automation-compatible PCR microplate that sustains flatness post-thermal cycling, has raised-angled rims for improved sealing, and has grid lines for better sample traceability.

- ▶ Rigid frame with a split in frame relieves stress during thermal cycling.
- ▶ Clear and ultra-thin walls provide even heat transfer.
- ▶ Grid improves support and rigidity.
- ▶ This microplate is compatible with major automated thermal cyclers, liquid handlers, and sequencers:
  - Applied Biosystems 7000, 7300, 7500, 7700, 7900HT, ProFlex™, StepOne™, StepOnePlus™, ViiA™ 7, QuantStudio™ 12K Flex, Veriti®, 9600, 9700, 2720, sequencers: 3100, 3130, 3700, 3730/3730x
  - BioRad/MJ Research iCycler®, MyiQ™, iQ5™, Chromo4™, DNA Engine Opticon® 2, CFX96 Touch™, MiniOpticon™, MyCycler™, T100™, C1000 Touch™, S1000™, DNA Engine Tetrad® 2, PTC-100®, PTC-200®, PTC-225 Tetrad, DNA Engine Dyad®, Dyad Disciple™
  - Eppendorf Mastercycler® ep realplex, Mastercycler series: ep, pro, nexus, nexus eco, nexus gradient, nexus gradient eco, nexus GSX1, nexus GSX1e, nexus SX1, nexus SX1e
  - Liquid handlers: Beckman Coulter, Hamilton, Tecan, Agilent, Perkin-Elmer
- ▶ Sealing options: AxyMats, adhesive films, flat and domed cap strips

Cat. No.	Volume (µL)	Description	Packaging
PCR-96-HS-AC-C	200	96-well half skirt automation-compatible, PCR microplate, clear, nonsterile	10/pk, 5 pk/cs
AM-96-PCR-RD	–	96-well PCR plate sealing mat	10/pk, 5 pk/cs
UC-500	–	UltraClear film, pressure sensitive	100/pk, 5 pk/cs

### 96-well PCR Microplates and Sealing Mats for 0.2 mL Thermal Cycler Blocks

Axygen® 96-well PCR microplates are designed to fit standard 96-well blocks. The consistent and ultra-thin wall allows precise thermal transfer for optimum results. Microplates can be sealed with 8- or 12-strip caps, Axygen AxyMats, or sealing film.



#### No Skirt, Flat Top, Low Profile

- ▶ Clear, thin wall well bottom
- ▶ Compatibility: Standard Biometra thermal cyclers, Eppendorf MasterCycler qPCR, MJ Opticon/Chromo4 qPCR
- ▶ Sealing options: AxyMats, heat sealing, adhesive films and foils, flat and domed cap strips
- ▶ Volume to brim of well: 210 µL; working volume: 180 µL; volume with AxyMat: 100 µL
- ▶ Maximum G-force: 4,000 RCF

Cat. No.	Volume (µL)	Color	Description	Packaging
PCR-96-LP-FLT-C	100	Clear	96-well, no skirt, low profile	5/sleeve, 5 sleeves/pk, 4 pk/cs
PCR-96-LP-FLT-W	100	White	96-well, no skirt, low profile	5/sleeve, 5 sleeves/pk, 4 pk/cs
AM-96-PCR-RD	–	–	96-well PCR sealing mat	10/pk, 5 pk/cs





### No Skirt, Elevated Wells



- ▶ Clear, thin wall well bottom
- ▶ Compatibility: Standard thermal cycling, no skirt Stratagene MX4000, elevated wells Megabace sequencer
- ▶ Sealing options: AxyMats, heat sealing, adhesive films and foils, flat and domed cap strips
- ▶ Volume to brim of well: 350  $\mu$ L; working volume: 300  $\mu$ L; volume with AxyMat: 240  $\mu$ L
- ▶ Maximum G-force: 4,000 RCF

Cat. No.	Volume ( $\mu$ L)	Color	Description	Packaging
PCR-96-C	200	Clear	96-well, no skirt	10/pk, 5 pk/cs
PCR-96-MB-C	200	Clear	96-well, no skirt, elevated wells	10/pk, 5 pk/cs
AM-96-PCR-RD	–	–	96-well PCR sealing mat	10/pk, 5 pk/cs

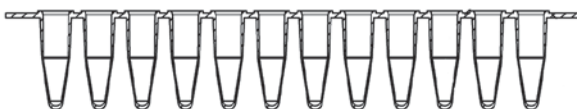


### No Skirt, Flat Top



- ▶ Clear, thin wall well bottom
- ▶ Compatibility: Standard thermal cycling, BioRad qPCR systems, Stratagene MX-3000
- ▶ Sealing options: AxyMats, heat sealing, adhesive films and foils, flat and domed cap strips
- ▶ Volume to brim of well: 330  $\mu$ L; working volume: 300  $\mu$ L; volume with AxyMat: 270  $\mu$ L
- ▶ Maximum G-force: 4,000 RCF

Cat. No.	Volume ( $\mu$ L)	Color	Description	Packaging
PCR-96-FLT-C	200	Clear	96-well, no skirt	5/sleeve, 5 sleeves/pk, 4 pk/cs
AM-96-PCR-RD	–	–	96-well PCR sealing mat	10/pk, 5 pk/cs

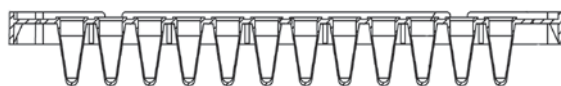


### Half Skirt, Low Profile



- ▶ Optimized for Fast PCR
- ▶ Reduced volume minimizes potential evaporation
- ▶ Compatibility: ABI Fast PCR 7500, 7900 Fast, 9800, Veriti, and StepOne
- ▶ Sealing options: AxyMats, heat sealing, adhesive films and foils, flat and domed cap strips
- ▶ Volume to brim of well: 240  $\mu$ L; working volume: 200  $\mu$ L; volume with AxyMat: 140  $\mu$ L
- ▶ Maximum G-force: 4,000 RCF

Cat. No.	Volume ( $\mu$ L)	Color	Description	Packaging
PCR-96-LP-AB-C	100	Clear	96-well PCR microplate, low profile	5/sleeve, 5 sleeves/pk, 4 pk/cs
PCR-96-LP-AB-C-BC	100	Clear	96-well PCR microplate, low profile, bar coded	5/sleeve, 5 sleeves/pk, 4 pk/cs
PCR-96-LP-AB-W	100	White	96-well PCR microplate, low profile	5/sleeve, 5 sleeves/pk, 4 pk/cs
AM-96-PCR-RD	–	–	96-well PCR sealing mat	10/pk, 5 pk/cs



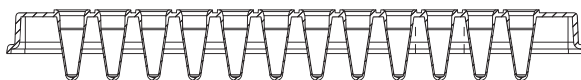
## 96-well PCR Microplates and Sealing Mats for 0.2 mL Thermal Cycler Blocks (Continued)

### Half Skirt



- ▶ Cut-away notches for perfect plate positioning
- ▶ Consistently thin walls for reduced cycle times and reproducible results
- ▶ Optional bar coding
- ▶ Compatibility: Roche 480 LightCycler®
- ▶ Sealing option: Adhesive films
- ▶ Volume to brim of well: 210 µL; working volume: 190 µL; volume with UC-500: 120 µL
- ▶ Maximum G-force: 4,000 RCF

Cat. No.	Volume (µL)	Color	Description	Packaging
PCR-96-LC480-C-NF	100	Clear	96-well PCR microplate, clear, no sealing film	10/pk, 5 pk/cs
PCR-96-LC480-W	100	White	96-well PCR microplate, white, with sealing film	10/pk, 5 pk/cs
PCR-96-LC480-W-BC	100	White	96-well PCR microplate, white, bar coded, with sealing film	10/pk, 5 pk/cs
PCR-96-LC480-W-NF	100	White	96-well PCR microplate, white, no sealing film	10/pk, 5 pk/cs
UC-500	–	–	UltraClear film, pressure sensitive	100/pk, 5 pk/cs

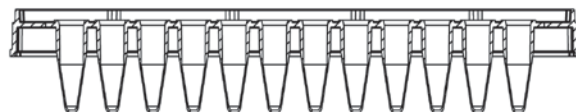


### Half Skirt, Elevated Frame



- ▶ Single notch corner
- ▶ Compatibility: ABI Real Time PCR 7300, 7500, 7900
- ▶ Sealing Options: AxyMats, heat sealing, adhesive films and foils, flat and domed cap strips
- ▶ Volume to brim of well: 335 µL; working volume: 300 µL; volume with AxyMat: 260 µL
- ▶ Maximum G-force: 4,000 RCF

Cat. No.	Volume (µL)	Color	Description	Packaging
PCR-96-AB-C	200	Clear	96-well, elevated skirt	10/pk, 5 pk/cs
AM-96-PCR-RD	–	–	96-well PCR sealing mat	10/pk, 5 pk/cs

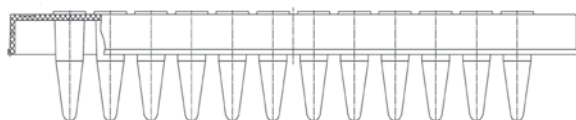


### Half Skirt



- ▶ Clear, thin wall well bottom
- ▶ Compatibility: Standard thermal sequence cyclers, ABI PCR 2700, 2720, 9700, 9800, 7300, 7500, 7900, and ABI sequencing units
- ▶ Volume to brim of well: 340  $\mu$ L, working volume: 300  $\mu$ L, volume with AxyMat: 230  $\mu$ L
- ▶ Sealing options: AxyMats, heat sealing, adhesive films and foils, flat and domed cap strips
- ▶ Maximum G-force = 4,000 RCF

Cat. No.	Volume ( $\mu$ L)	Color	Description	Packaging
PCR-96M2-HS-C	200	Clear	96-well, half skirt, single notch corner	10/pk, 5 pk/cs
PCR-96-HS-C	200	Clear	96-well, half skirt	10/pk, 5 pk/cs
AM-96-PCR-RD	–	Clear	96-well PCR sealing mat	10/pk, 5 pk/cs

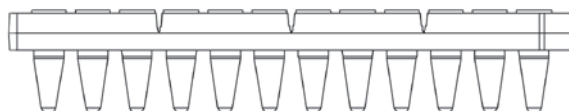


### Half Skirt, Segmented



- ▶ Compatibility: Standard thermal sequence cyclers, Beckman CEQ Sequencers
- ▶ Volume to brim of well: 340  $\mu$ L, working volume: 280  $\mu$ L, volume with AxyMat: 240  $\mu$ L
- ▶ Sealing options: AxyMats, heat sealing, adhesive films and foils, flat and domed cap strips
- ▶ Maximum G-force = 4,000 RCF

Cat. No.	Volume ( $\mu$ L)	Color	Description	Packaging
PCR-96-SG-C	200	Clear	96-well, segmented	10/pk, 5 pk/cs
AM-96-PCR-RD	–	–	96-well PCR sealing mat	10/pk, 5 pk/cs

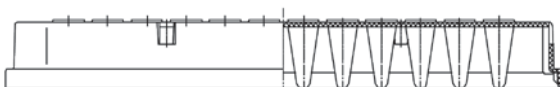


### Full Skirt



- ▶ Single notch corner
- ▶ Clear, thin wall well bottom
- ▶ Stackable, automation-compatible design
- ▶ Compatibility: Standard thermal sequence cyclers, Automation friendly
- ▶ Volume to brim of well: 220  $\mu$ L, working volume: 190  $\mu$ L, volume with AxyMat: 120  $\mu$ L
- ▶ Sealing options: AxyMats, heat sealing, adhesive films and foils, flat and domed cap strips
- ▶ Maximum G-force = 4,000 RCF

Cat. No.	Volume ( $\mu$ L)	Color	Description	Packaging
PCR-96-FS-C	200	Clear	96-well, full skirt	10/pk, 5 pk/cs
AM-96-PCR-RD	–	–	96-well PCR sealing mat	10/pk, 5 pk/cs



### 384-well PCR Microplates and Sealing Mats for 0.2 mL Thermal Cycler Blocks

Axygen® 384-well PCR microplates are designed to fit standard 384-well blocks. The consistent and ultra-thin wall allows precise thermal transfer for optimum results. Automation-compatible full skirt designs can be sealed with Axygen AxyMats or sealing film.

#### Skirted

- ▶ Cut-away notches for perfect plate positioning
- ▶ Consistently thin walls for reduced cycle times and reproducible results
- ▶ Optional bar coding
- ▶ Compatibility: Roche 480 LightCycler®
- ▶ Volume to brim of well: 50 µL, working volume: 45 µL, volume with AxyMat: 35 µL
- ▶ Sealing options: Adhesive films and foils
- ▶ Maximum G-force = 4,000 RCF



Cat. No.	Volume	Color	Description	Packaging
PCR-384-LC480-W	20	White	384-well PCR microplate, with sealing film	10/pk, 5 pk/cs
PCR-384-LC480-W-NF	20	White	384-well PCR microplate, no sealing film	10/pk, 5 pk/cs
PCR-384-LC480-W-NF-BC	20	White	384-well PCR microplate, bar coded, no sealing film	10/pk, 5 pk/cs
UC-500	–	–	UltraClear film, pressure sensitive	100/pk, 5 pk/cs



#### Skirted

- ▶ Notches on A24 and P24 side
- ▶ Automation-compatible design
- ▶ Application/Compatibility: Standard thermal cycling
- ▶ Volume to brim of well: 50 µL, working volume: 45 µL, volume with AxyMat: 35 µL
- ▶ Sealing options: AxyMats, heat sealing, adhesive films and foils
- ▶ Maximum G-force = 4,000 RCF



Cat. No.	Volume (µL)	Color	Description	Packaging
PCR-384-C	50	Clear	384-well, skirted	10/pk, 5 pk/cs
AM-384-PCR-RD	–	–	384-well PCR sealing mat	10/pk, 5 pk/cs



#### Skirted

- ▶ Notch on A24 side
- ▶ Automation-compatible design
- ▶ Application/compatibility: Standard thermal cycling, fully ABI compatible for qPCR and sequencing
- ▶ Volume to brim of well: 50 µL, working volume: 45 µL, volume with AxyMat: 35 µL
- ▶ Sealing options: AxyMats, heat sealing, adhesive films and foils
- ▶ Maximum G-force = 4,000 RCF



Cat. No.	Volume (µL)	Color	Description	Packaging
PCR-384M2-C	55	Clear	384-well, skirted	10/pk, 5 pk/cs
AM-384-PCR-RD	–	–	384-well PCR sealing mat	10/pk, 5 pk/cs





**Skirted, Rigid**

- ▶ Notch on A24 side
- ▶ Automation-compatible design
- ▶ Application/compatibility: Standard thermal cycling, ABI sequencing, automation applications
- ▶ Volume to brim of well: 42  $\mu$ L, working volume: 35  $\mu$ L, volume with AxyMat: 30  $\mu$ L
- ▶ Sealing options: AxyMats, heat sealing, adhesive films and foils
- ▶ Maximum G-force = 4,000 RCF



Cat. No.	Volume ( $\mu$ L)	Color	Description	Packaging
PCR-384-RGD-C	50	Clear	384-well skirted	10/bag, 2 bags/pk, 5 pk/cs
AM-384-PCR-RD	–	–	384-well PCR sealing mat	10/pk, 5 pk/cs

**24-, 32-, and 48-well PCR Plates**

- ▶ Volume to brim of well: 350  $\mu$ L, working volume: 300  $\mu$ L, volume with AxyMat: 240  $\mu$ L

Cat. No.	Volume ( $\mu$ L)	Color	Description	Packaging
PCR-24-C	200	Clear	24-well plate	10/pk, 5 pk/cs
PCR-32-C	200	Clear	32-well plate	10/pk, 5 pk/cs
PCR-48-C	200	Clear	48-well plate	10/pk, 5 pk/cs

**Capillary Sequencing Products**

Cat. No.	Volume (mL)	Color	Description	Packaging
TUB-310-NC	0.5	Clear	Capless tube for ABI Prism 310 sequencer	500/pk, 5 pk/cs
AM-SEPTA-310	–	Grey	Individual Septa caps for 0.5 mL ABI Prism 310 sequencer tubes	500/pk, 5 pk/cs
AM-96-SEPTA-3100	–	Grey	Septa mat for ABI multi-capillary sequencing instruments	10/pk, 5 pk/cs



## PCR Tubes

Axygen® polypropylene, thin wall PCR tubes with and without caps are designed to fit standard 96-well blocks and are available in an assortment of colors. The consistent and ultra-thin wall allows precise thermal transfer. An even insertion cap ensures a tight fit to reduce evaporation.

### 0.2 mL, Flat Cap



Standard Surface Cat. No.	Maxymum Recovery® Surface Cat. No.	Max. Volume (mL)	Color	Description	Packaging
PCR-02-C	PCR-02-L-C	0.2	Clear	Thin wall, flat cap	1,000/pk, 10 pk/cs
PCR-02-A	–	0.2	Assorted	Thin wall, flat cap	1,000/pk, 10 pk/cs

For color availability, contact Customer Service.



### 0.2 mL, Domed Cap

PCR-02D-C	PCR-02D-L-C	0.2	Clear	Thin wall, domed cap	1,000/pk, 10 pk/cs
PCR-02D-A	–	0.2	Assorted	Thin wall, domed cap	1,000/pk, 10 pk/cs

For color availability, contact Customer Service.



### 0.2 mL, Without Cap

PCR-02-NC		0.2	Clear	Thin wall, without cap	1,000/pk, 10 pk/cs
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### 0.5 mL, Flat Cap

PCR-05-C	PCR-05-L-C	0.5	Clear	Thin wall, flat cap	1,000/pk, 10 pk/cs
PCR-05-A	–	0.5	Assorted	Thin wall, flat cap	1,000/pk, 10 pk/cs

For color availability, contact Customer Service.









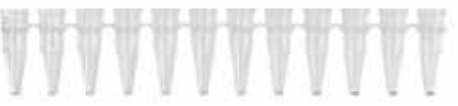



### 0.2 mL PCR Tube Storage Rack

Standard Surface Cat. No.	Color	Description	Packaging
R-96-PCR-FY	Fluorescent yellow	PCR storage rack for 0.2 mL tubes	5/pk, 5 pk/cs

## PCR Strip Tubes and Caps

Axygen® thin wall PCR strip tubes are designed to fit a variety of thermal cyclers. The consistent and ultra-thin wall allows precise thermal transfer. An even insertion cap ensures a tight fit to reduce evaporation. Strip tubes are available in an assortment of colors.

Optical flat cap strips feature ultra-clear upper surfaces, ideal for fluorescent luminescent and real-time PCR applications. They offer a light transmittance that is 75% higher than with standard strip caps. Made to seal tube strips and 96-well microplates.

Cat. No.	Max. Volume (µL)	Color	Description	Packaging
 PCR-02CP-C	–	MaxyClear	Domed 8-strip caps	125/pk, 10 pk/cs
 PCR-02-FCP-C	–	MaxyClear	Flat 8-strip caps with writing surface	125/pk, 10 pk/cs
 PCR-2CP-RT-C	–	MaxyClear	Thin wall 8-strip caps for qPCR	125/pk, 10 pk/cs
 PCR-0208-C	0.2	MaxyClear	Thin wall PCR 8-strip tubes	125/pk, 10 pk/cs
 PCR-0208-CP-C	0.2	MaxyClear	Thin wall PCR 8-strip tubes and domed strip caps	125/pk, 10 pk/cs
 PCR-0208-FCP-C	0.2	MaxyClear	Thin wall PCR 8-strip tubes and flat strip caps	125/pk, 10 pk/cs
 PCR-0212-C	0.2	Clear	Thin wall 12-strip tubes	80/pk, 10 pk/cs
 PCR-0212-FCP-C	0.2	Clear	Thin wall PCR 12-strip tubes and flat strip caps	80/pk, 10 pk/cs
 PCR-0108-LP-C	0.1	MaxyClear	Low profile 8-strip tubes	125/pk, 10 pk/cs
PCR-0108-LP-W	0.1	White	Low profile 8-strip tubes	125/pk, 10 pk/cs
 PCR-0108-LP-RT-C	0.1	MaxyClear	Low profile 8-strip tubes and real-time caps	125/pk, 10 pk/cs
PCR-0108-LP-RT-W	0.1	White	Low profile 8-strip tubes and real-time caps	125/pk, 10 pk/cs