

Instructions for Use (IFU)

PCR Single, 8-Strip & 4-Strip Tubes

Ver. II (EN) – Jan 2, 2025



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1. Product Description

Gunster PCR single, 8-strip and 4-strip tubes are thin-walled polypropylene consumables designed for efficient heat transfer and reliable performance in (q)PCR applications. Matching strip caps ensure a secure seal to reduce evaporation and contamination. All components are single-use and intended for use by trained personnel in research, educational, or industrial laboratory settings.

2. Safety

Improper Use of the Tubes May Result in Leakage or Splashing of Contents.

To Avoid Leakage or Splashing, You Should:

- Use Only Intact Tubes and Caps.
- Seal Properly; Do Not Overfill.
- Use Appropriate Tube Racks During Transport to Prevent Tipping.

3. Application

3-1 Filling: Fill the PCR Single, 8-Strip or 4-Strip Tubes with Reagent Precisely.

Maximum Filling Volume:

200µL: MB-P02, MB-P02D, MB-P08A, P08AD, MB-P08B, MB-P08D, MB-Q200, MB-Q200A, MB-Q200W

100µL: MB-Q100, MB-Q100A, MB-Q100W, MB-Q100C

60µL: MB-QR4

3-2 Closing Tubes with Strip Caps.

- ❖ Align the Strip Caps to the 8-Strip Tubes.
- ❖ Press the Strip Caps Firmly Onto the 8-Strip Tubes.
- ❖ Check the Strip Caps Are Positioned Correctly and the Tubes Are Sealed.
- ❖ [Compatibility Charts](#): Download Them from Our Official Website.

3-3 Removing Strip Caps.

Strip Caps Can Be Removed by Lifting Upward, Either Manually or with MB-OPENER.

4. Technical Data

Material : Polypropylene
Operational Temperature : -86°C To +105°C
Autoclavability : 121°C, 20 Min, Not Closed.
Evaporation Rate : Below 5%, No Mineral Oil Needed.
Biological Purity : Free of DNase, RNase, Human DNA, PCR Inhibitor, ATP, Pyrogen and Endotoxin.
Storage Before Use : Store Dry At Room Temperature, Away From Sunlight And UV.

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5. Applicable Products

Product No.	Description	Packing
MB-P02	0.2ml PCR Tubes with Flat Cap	3000 pcs / box, 10 box / carton
MB-P02D	0.2ml PCR Tubes with Domed Cap	
MB-P08A	0.2ml PCR 8-Strip Tubes with Attached Flat Caps	120 sets/box, 20 box / carton
MB-P08AD	0.2ml PCR 8-Strip Tubes with Attached Domed Caps	
MB-P08B	0.2ml PCR 8-Strip Tubes & Separate Flat Caps	
MB-P08D	0.2ml PCR 8-Strip Tubes & Separate Domed Caps	
MB-Q100	0.1ml qPCR 8-Strip Frosted Tubes (With Optical Caps)	
MB-Q100A	0.1ml qPCR 8-Strip Tubes with Attached Flat Optical Caps	
MB-Q100C	0.1ml qPCR 8-Strip Clear Tubes and Caps (With Optical Caps)	
MB-Q100W	0.1ml qPCR 8-Strip White Tubes (With Optical Caps)	
MB-Q200	0.2ml qPCR 8-Strip Tubes (With Optical Caps)	
MB-Q200A	0.2ml qPCR 8-Strip Tubes with Attached Flat Optical Caps	
MB-Q200W	0.2ml qPCR 8-Strip White Tubes (With Optical Caps)	
MB-QR4	qPCR 4-strip Tubes and Caps for Rotor-Gene® Q	252 sets/box, 20 box / carton

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Instructions for Use (IFU)

(q)PCR 96-Well and 384-Well Plate

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1. Product Description

Gunster (q)PCR 96-well and 384-well plates are thin-walled polypropylene consumables designed for single use in PCR applications. These products are suitable for research and training in life sciences, industrial settings, or laboratory use, and must be handled by trained personnel.

2. Safety

Improper Use of the Plates May Result in Leakage or Splashing of Contents.

To Avoid Leakage or Splashing, You Should:

- Use Only Intact Plates and Sealing Films.
- Seal Properly; Do Not Overfill.

3. Application

3-1 Filling: Fill The Plates with Reagent Precisely.

Max Filling Volume:

200µL: MB-P96, MB-P96-T, MB-Q96, MB-Q96-S

100µL: MB-Q96-LN, MB-Q96-LP, MB-Q96-LBR, MB-Q96-LBR-W

31.2µL: MB-384, MB-384W

3-2 Sealing Plates

- ❖ Use Sealing Films to Seal the Plates.
- ❖ Ensure the Sealing Films Are Fully Adhered to the Plates.

3-3 PCR & Real-time PCR

Place the Plates in Compatible Machine and Start the Designed (q)PCR Procedure.

- ❖ [Compatibility Charts](#): Download Them from Our Official Website.

4. Technical Data

Material : Polypropylene
Operational Temperature : -86°C To +105°C
Autoclavability : 121°C, 20 Min, Not Closed.
Biological Purity : Free of DNase, RNase, Human DNA, PCR Inhibitor, ATP, Pyrogen and Endotoxin.
Storage Before Use : Store Dry At Room Temperature, Away From Sunlight And UV.

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5. Applicable Products

Product No.	Description	Packing
MB-P96	0.2ml Standard Profile PCR 96 Well Plate (Non-Skirted)	10 plate / bag, 5 bag / box, 5 box / carton
MB-P96-T	0.2ml Standard Profile PCR 96 Well Tearble Plate (Non-Skirted)	
MB-Q96	0.2ml Standard Profile qPCR 96 Well Plate (Sub-Semi Skirted)	
MB-Q96-S	0.2ml Standard Profile qPCR 96 Well Plate (Semi Skirted)	
MB-Q96-LN	0.1ml Low Profile qPCR 96 Well Plate (Non Skirted)	
MB-Q96-LP	0.1ml Low Profile qPCR 96 Well Plate (Sub-Semi Skirted)	
MB-Q96-LBR	0.1ml Low Profile qPCR 96 Well Plate (Semi Skirted)	
MB-Q96-LBR-W	0.1ml Low Profile qPCR 96 Well White Plate (Semi Skirted)	
MB-384	384-Well PCR Plate (Abi, Bio-Rad Style)	
MB-384W	384-Well PCR White Plate (Roche, Bio-Rad Style)	

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Instructions for Use (IFU)

Sealing Film

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1. Product Description

Gunster Seals are highly adhesive sealing films designed for single use in PCR and qPCR applications. These consumables are intended for use in research and training within life sciences, industry, or laboratory settings, and should only be handled by trained specialists.

2. Safety

Improper Use of the Plates May Result in Leakage or Splashing of Contents.

To Avoid Leakage or Splashing, You Should:

- Use Only Intact Plates and Sealing Films.
- Seal Properly; Do Not Overfill.
- To Ensure Optimal Performance, Do Not Reuse the Sealing Films.

3. Application

3-1. Align the Adhesive Film to Fully Cover All Wells on the Plate.

3-2. Seal the Plate with a Plate Applicator, Moving It Horizontally and Vertically by Manually or Using the MB-OPENER.

3-3. Secure the Film Along All Edges of the Plate Using the Edge of the Applicator.

3-4. When Applying the Film, Ensure It Is Smooth Without Bumps or Wrinkles to Prevent Leakage.

❖ [Compatibility Charts](#): Download Them from Our Official Website.

4. Technical Data

Material : OPP Film / Aluminum Foil / Polyester Film, (Refer to Point 5 for More Information.)
Acrylic Adhesive / Silicone Pressure Sensitive Adhesive, Wood Fiber, Polyethylene, Silicone, Fluorine
Operational Temperature: -80°C to +120°C
Biological Purity : Free of DNase, RNase, Human DNA, PCR Inhibitor, ATP, Pyrogen and Endotoxin.
Storage Before Use : Store Dry At Room Temperature, Away From Sunlight And UV.

Instructions for Use (IFU)

Sealing Film

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5. Applicable Products

Product No.	Description	Material	Packing
MB-PSM	PCR 96 Well Plate Sealing Film	Backing Material: OPP Film Adhesive Material: Acrylic Adhesive Liner Material: Wood Fiber, Polyethylene, Silicone	10 pcs / bag, 10 bag / box, 20 box / carton
MB-QSM	qPCR 96 Well Plate Optical Sealing Film (Pressure-Sensitive Adhesive Film)	Backing Material: OPP Film Adhesive Material: Acrylic Pressure Sensitive Adhesive, Silicone Pressure Sensitive Adhesive Liner Material: PET Film, Fluorine	
MB-BQSM	qPCR 96 Well Plate Optical Sealing Film (Sticky Adhesive Film)	Backing Material: OPP Film Adhesive Material: Acrylic Adhesive Liner Material: Wood Fiber, Polyethylene, Silicone	
MB-ASM	Aluminum Film	Backing Material: Aluminum Foil Adhesive Material: Acrylic Adhesive Liner Material: Wood Fiber, Polyethylene, Silicone	
MB-ESM	Storage Film (for ELISA/EIA)	Backing Material: Polyester Film Adhesive Material: Acrylic Adhesive Liner Material: Wood Fiber, Polyethylene, Silicone	

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