



GILSON® pipetman®

DIAMOND TIPS

PIPETMAN® DIAMOND TIPS

Standard is Gilson

Pipetman® Diamond Tips
Pure Performance Tips
for superior results





pipetman®

DIAMOND TIPS

길스 피펫맨 다이아몬드 팁

HIGHEST QUALITY TIPS FOR SUPERIOR RESULTS

실험실에는 다양한 피펫과 팁들이 있고 모든 피펫 팁이 동일한 품질과 성능을 보장하지는 않습니다.

GILSON Diamond tips은 믿을 수 있습니다. 연구자의 실험이 요구하는 정확성과 정밀성을 제공하기 위해 다이아몬드 팁은 최고 품질의 재료와 최첨단 제조기술을 사용하여 제조됩니다.

Guarantee Your PIPETMAN® Results

- GILSON Diamond tips은 GILSON Pipette과 가장 완벽한 호환성을 보여줍니다.
- GILSON Pipette뿐 아니라 다양한 피펫에도 호환 가능합니다.

Contamination-Free

- GILSON Diamond tips은 완전히 추적 가능한 클린룸 환경에서 최고 등급의 재료로 만들어집니다.
- 금형에서 벤치까지 많은 응용 분야에서 가장 엄격한 요구 사항을 충족하도록 보장하고 인증되었으며 추적 가능합니다.
- 샘플 분주시 팁 안에 잔여물을 최소화 합니다.

MADE OF 100% PURE VIRGIN POLYPROPYLENE

No dyes. No additives. No trace metals. Smooth hydrophobic surface prevents liquid retention and ensures complete dispensing.

A PERFECT SEAL

Two solid sealing rings when used with PIPETMAN pipettes ensure more consistent and reliable results each and every time.

ERGONOMIC TIP FITTING

Best match between pipette and tips reduces the strain to fit and eject tips.

GRADUATED VOLUME MARKERS

Volume graduations make it easy to visually check the volume aspirated.

CONTAMINATION PREVENTION WITH PIPETMAN DIAMOND FILTER TIPS

Gilson's high-density polyethylene filter provides an effective barrier against aerosols.

FINE & FLEXIBLE POINT

The last droplet is easier to dispense.



ROCKY RACK™ System

특허받은 **ROCKY RACK™ System**은 TOWERPACK과 TIPACK에 적용되어 있습니다. 멀티채널 피펫에 팁들이 아주 쉽게 꽂힐 수 있도록 설계되었기 때문에 팁이 흘러내리지 않으며, 손으로 다시 끼울 필요가 없습니다.

TOWERPACK ▶

TIPACK™ ▶



랙 타입

TIPACK™



- 디자인은 콤팩트하고, 사용하기 편리하며 인체공학적이고 친환경적입니다.
- **ROCKY RACK™** 시스템과 180°로 열리는 뚜껑으로 멀티채널 피펫 사용시 더 쉽게 팁을 장착할 수 있습니다.
- 오토클레이브 하여 사용 가능합니다.

벌크 타입

EASYPACK AND ECOPACK



- 대량으로 구매후 Empty rack을 사용하여 경제적으로 사용할 수 있습니다.
- 지퍼백 형식으로 되어있어 사용 후 재밀봉 가능합니다.
- 자원 낭비를 최소화 할 수 있습니다.
- 오토클레이브 하여 사용 가능합니다.

개별 멸균 포장

STERILPACK



- 개별 포장된 멸균팁입니다
- 오염 물질로부터 완벽하게 보호되며 Medical-grade의 플라스틱으로 포장되어 있습니다.
- 멸균성능 보장 : 5년

STERILIZED TIPS

- Sterilized with SAL 10⁻⁶ guaranteed in accordance with ISO 11137.
- Free of detectable RNases, DNases, DNA, RNA, ATP and pyrogens.
- All packs wrapped in medical device quality plastic that provides a complete shield against contamination.
- Sterilization expiration date on each rack.

다양한 리필 타입

REFILL VERSIONS



- 96개의 팁이 트레이에 꽂힌 상태로 개별포장되어 편리하고 깨끗하게 사용할 수 있으며 친환경적입니다
- 밀봉된 포장을 벗기고 Empty rack에 넣어서 바로 사용 가능합니다. 일반 Rack보다 플라스틱을 45% 적게 사용합니다.
- 비멸균 제품은 오토클레이브하여 사용 가능하고, 멸균제품은 바로 사용 가능합니다.

RELOAD PACK



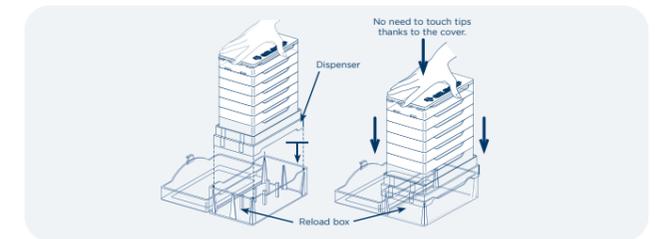
- 빠르게 재사용 가능합니다.
- 플라스틱을 70% 적게 사용하고 재활용 가능한 포장으로 친환경적입니다.
- 보관이 간편하고 실험공간을 적게 차지합니다.
- 오토클레이브 하여 사용 가능합니다.

TOWERPACK



- 빠르고 쉽게 경제적으로 사용가능한 리필 시스템
- 일반 랙보다 차지하는 공간을 60% 줄일 수 있으며 플라스틱을 70% 더 적게 사용하여 친환경적입니다.
- 하나의 Reload Box로 모든 볼륨을 사용할 수 있습니다.
- 한손으로 편리하게 사용할 수 있습니다.
- 오토클레이브 하여 사용 가능합니다.
- 멸균 제품도 있습니다.

TOWERPACK은 포팅비닐을 제거하여 Tip Box에 옮긴 후 오토클레이브 하는 것을 추천합니다.



Ordering Information

스탠다드 피펫맨 다이아몬드 팁 주문정보

STANDARD PIPETMAN® DIAMOND TIPS												
Sales unit \ Package		TIPACK		ECOPACK		EASYPACK	STERILPACK	REFILL VERSIONS		RELOAD PACK	TOWER PACK	
	D10 0.1-10 µL · 30 mm	F171100 960 tips	F171101 960 tips	F161630 10*1,000 tips	F161630—Bag 1,000 tips	F161631 5*200 tips	-	-	-	-	F167101 960 tips	F167201 960 tips
	DL10 0.1-20 µL · 45 mm	F171200 960 tips	F171201 960 tips	F161450 10*1,000 tips	F161450—Bag 1,000 tips	F161451 5*200 tips	-	F172200 960 tips	F172201 960 tips	F167012 960 tips	F167102 960 tips	F167202 960 tips
	D200 2-200 µL · 51 mm	F171300 960 tips	F171301 960 tips	F161930 10*1,000 tips	F161930—Bag 1,000 tips	F161931 5*200 tips	F161330 400 tips	F172300 960 tips	F172301 960 tips	F167013 960 tips	F167103 960 tips	F167203 960 tips
	D300 10-300 µL · 51 mm	F171400 960 tips	F171401 960 tips	F161730 10*1,000 tips	F161730—Bag 1,000 tips	F161731 5*200 tips	-	F172400 960 tips	F172401 960 tips	-	F167105 960 tips	F167205 960 tips
	D1000 100-1000 µL · 66 mm	F171500 960 tips	F171501 960 tips	F161670 10*1,000 tips	F161670—Bag 1,000 tips	F161671 5*200 tips	F161340 400 tips	F172500 960 tips	F172501 960 tips	F167014 576 tips	F167104 672 tips	F167204 672 tips
	D1200 50-1200 µL · 84 mm	F171600 960 tips	F171601 960 tips	F161110 10*1,000 tips	F161110—Bag 1,000 tips	F161111 5*200 tips	-	F172800 960 tips	F172801 960 tips	-	-	-
	D5000 0.5-5 mL · 10.4 cm	F161370 600 tips	-	-	-	F161571 3*334 tips	-	-	-	-	-	-
	D10mL 1-10 mL · 16 cm	F161230 240 tips	-	-	-	F161210 4*50 tips	-	-	-	-	-	-

EMPTY RELOAD RACKS For Eco & Easy Pack	DESCRIPTION	Reload Racks	
	D10	F171102 (2ea)	
	DL10	F171202 (2ea)	
	D200	F171302 (2ea)	
	D300	F171402 (2ea)	
	D1000	F171502 (2ea)	
	D5000	F161360 (1ea)	
	D10mL	F161220 (1ea)	

EMPTY RELOAD BOXES For Refill Version & Reload Pack	DESCRIPTION	Reload Boxes	
	DL10/D200/D300 DFL10ST/DF30ST/DF100ST DF200ST/DF300ST	F171204 (2ea)	
	D1000/D1200/DF1000ST/ DF1200ST	F171504 (2ea)	

EMPTY RELOAD BOXES For Tower Pack	DESCRIPTION	Reload Box	
	D10, DL10, D200, D300, D1000	F167100 (1ea)	

FILTER TIPS



Also available are **PIPETMAN® Filter Tips** offering total protection against aerosol contamination and **Sterilised PIPETMAN® Tips**, which are gamma irradiated and certified free of DNA, RNA, RNases, DNases, ATP proteases and trace metals.

DIAMOND FILTER TIPS Certificate of Conformity



Certificate of Conformity
PIPETMAN® DIAMOND Filter Tips
Contaminant Free Certified

This package contains a high-quality consumable manufactured in a controlled environment following ISO 14644-1. This lot is certified by validation of the manufacturing process following the requirements defined in ISO 18385.

- The products are free of the following contaminants:
- Human DNA
 - Bacterial DNA
 - RNA
 - ATP
 - DNase
 - RNase
 - PCR inhibitors
 - Endotoxins
 - Protein

This lot of tips has been Gamma irradiated for sterilization. The protocol analysis for validation of the sterilization process to ensure a Sterility Assurance Level (SAL) of 10⁻⁶ has been carried out following ISO 11137-2 for establishing the sterilization dosage.

Quality control and subsequent certification is done by independent, accredited laboratories (NF EN ISO/CEI 17025 - COFRAC).

Product certified ISO 18385
 Company certified ISO 9001 and ISO 13485

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Hervé Le Dorze
 Hervé Le Dorze
 Quality Director

The certification comprises the following tests:

Bio-molecule detection protocols

For all tests, disposable tips are rinsed with sterile DNase/RNase free water called liquid extract. Negative controls, positive and extract controls are made to validate all steps of the different assays.

Human DNA detection < 2 pg

Preparation of sample with sterile and pyrogen free water. Extraction of DNA with a commercial kit. An aliquot of liquid extract is exposed to PCR reaction reagents containing primers (to amplify the β-actin housekeeping gene). A range of human DNA (2, 5, 10, 20 and 50 pg) is also amplified and used as positive control. Amplions are obtained after cycles of amplification, analyzed by electrophoresis on a 2% agarose gel into TBE 0.5X buffer. No DNA have to be detected in the sample.

Bacterial DNA < 2 pg

Preparation of sample with sterile and pyrogen free water. Extraction of DNA with a commercial kit. An aliquot of liquid extract is exposed to PCR reaction reagents containing primer (to amplify RNA 16s gene). A range of bacterial DNA (2, 5, 10, 20 and 50 pg) is also amplified and used as positive control. Amplions are obtained after cycles of amplification, analyzed by electrophoresis on a 2% agarose gel into TBE 0.5X buffer. No DNA have to be detected in the sample.

RNA detection < 1 pg

Preparation of sample with sterile and pyrogen free water. Extraction, purification and RNA concentration are performing with a kit, and RNA converted to cDNA with an other kit, procedure recommended by the manufacturer. The cDNA is exposed to PCR reaction reagents containing primers (to amplify the β-actin housekeeping gene). A range of human RNA (1, 2, 4, 8 and 16 pg) is also amplified and used as positive control. Amplions are obtained after cycles of amplification, analyzed by electrophoresis on a 2% agarose gel into TBE 0.5X buffer. No RNA have to be detected in the sample.

Endotoxin Detection < 0.005 EU/mL

Gilson sterilized DIAMOND Filter tips (sterilized non-pyrogenic) have been tested for bacterial endotoxins. Samples selected at random were tested and validated using the LAL kinetic chromogenic method D with < 0.005 EU/mL sensitivity (European Pharmacopoeia section 2.6.12 methodology for bacterial endotoxin testing).

DNase detection < 12.5 pg

Preparation of sample with sterile and pyrogen free water. 10 µL of liquid extract are incubated 2 hours at 37°C with variable concentrations of 10x plus DNA ladder (0, 10, 50 and 100 ng). Positive controls (0, 10, 50 and 100 ng of DNA + DNase I 12.5 pg) and negative controls (0, 10, 50 and 100 ng of DNA) are incubated in the same conditions. Samples are analyzed by electrophoresis (2% agarose gel into TBE 0.5X buffer). The intensity of samples signals is compared with negative and positive controls. The degradation of DNA indicates the presence of DNase in the liquid extract. No degradation have to be observed, the intensity of negative control and the sample have to be identical.

RNase detection < 0.25 ng

Preparation of sample with sterile and pyrogen free water. 10 µL of liquid extract are incubated 10' at room temperature (22°C) with 250 ng of RNA (β-2-micro RNA ladder). Positive control (500 ng of RNA + 12.5 ng of RNase A) and negative control (500 ng of RNA) are incubated in the same conditions. Samples are analyzed by electrophoresis (2% agarose gel into TBE 0.5X buffer). The intensity of samples signals is compared with negative and positive controls. The degradation of RNA indicates the presence of RNase in the liquid extract. No degradation have to be observed, the intensity of negative control and the sample have to be identical.

ATP detection < 10⁻⁶ mol/L

Preparation of sample with sterile and ATP free water. Evaluation of ATP by luminescence (enzymatic reaction of luciferase - commercial kit). The intensity of the samples signals is compared with a negative control (DNase-RNase free water) and with ATP standards curve. The intensity of samples signals is compared with negative and positive controls curve. No ATP have to be detected.

Protein detection < 2 µg/mL

Preparation of sample with sterile and pyrogen free water. 150 µL of liquid extract are tested for the detection of proteins by absorbance measurements (commercial kit). Positive control is a standard range supply by the kit, the negative control is sterile and pyrogen free water. Analysis are performed by absorbance reading in the plate reader. The intensity of samples signals is compared with negative and positive controls curve. No protein have to be detected.

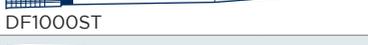
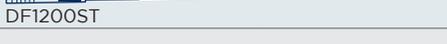
Inhibitors of PCR detection

Preparation of sample with sterile and pyrogen free water. Add of 50 pg of control genomic DNA for each sample. Amplification by PCR. Positive control is 50 ng of genomic DNA and an inhibitor standard (e.g. ethanol 0.2%, 0.5%, 1%, 2%, 5%), negative control is sterile and pyrogen free water. A DNA fragment with the same size of amplification have to be detected.



Ordering Information

피펫맨 다이아몬드 필터 팁 주문정보

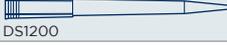
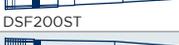
Sales unit \ Package		Racked (Sterile)		Refill (Sterile)	
		TIPACK		REFILL VERSIONS	
	DF10ST	0.1-10 µL · 30 mm	F171103 960 tips	-	
	DFL10ST	0.1-10 µL · 45 mm	F171203 960 tips	F172203 960 tips	
	DF30ST	2-30 µL · 51 mm	F171303 960 tips	F172303 960 tips	
	DF100ST	10-100 µL · 51 mm	F171403 960 tips	F172403 960 tips	
	DF200ST	20-200 µL · 51 mm	F171503 960 tips	F172503 960 tips	
	DF300ST	10-300 µL · 51 mm	F171603 960 tips	F172703 960 tips	
	DF1000ST	100-1000 µL · 66 mm	F171703 960 tips	F172603 960 tips	
	DF1200ST	50-1200 µL · 84 mm	F171803 960 tips	F172803 960 tips	



피펫맨 다이아몬드 팁 for PIPETMAX®

REFILL VERSIONS FOR PIPETMAX® CERTIFIED 384-WELL

Ordering Information

REFILL VERSIONS FOR PIPETMAX®-CERTIFIED 384-WELL				
Sales unit \ Package		Refill	Refill (Sterile)	Filter Refill (Sterile)
		REFILL VERSIONS		
	0.1-20 µL	F172210	F172211	-
	45 mm	960 tips	960 tips	-
	2-200 µL	F172310	F172311	-
	51 mm	960 tips	960 tips	-
	100-1000 µL	F172510	F172511	-
	66 mm	960 tips	960 tips	-
	50-1200 µL	F172800	F172801	-
	84 mm	960 tips	960 tips	-
	0.1-10 µL	-	-	F172213
	45 mm	-	-	960 tips
	2-30 µL	-	-	F172313
	51 mm	-	-	960 tips
	20-200 µL	-	-	F172513
	51 mm	-	-	960 tips
	100-1000 µL	-	-	F172613
	66 mm	-	-	960 tips

pipetmax®



- 대량의 샘플을 쉽고 빠르게 작업
- 안정적이고 일관된 결과
- 정확하고 정밀하게 구성 가능한 시스템
- 사용자의 요구에 맞게 사용 가능

CP 팁

CAPILLARY PISTONS

길슨 Microman® E와 함께 사용하여
교차오염으로부터 100% 보호!



Ordering Information

CAPILLARY PISTON							
Capillary Piston Model	Volume Range(µL)	MICROMAN® E Model Compatibility	CP Qty/ Rack	Rack Qty/ Commercial Unit	CP Qty/ Commercial Unit	Part Number	
TIPACK - Assembled CP	Capillary Piston 10 µL (CP10)	1 - 10	M10E	96	2	192	F148412
	Capillary Piston 25 µL (CP25)	3-25	M25E	96	10	960	F148312
	Capillary Piston 50 µL (CP50)	20 - 50	M50E	96	10	960	F148012
	Capillary Piston 100 µL (CP100)	10 - 100	M100E	96	2	192	F148414
	Capillary Piston 250 µL (CP250)	50-250	M250E	96	10	960	F148314
	Capillary Piston 1000 µL (CP1000)	100 - 1000	M1000E	91	2	182	F148560
TIPACK - Assembled Sterilized CP	Sterilized Capillary Piston 10 µL (CP10ST)	1 - 10	M10E	96	2	192	F148413
	Sterilized Capillary Piston 25 µL (CP25ST)	3-25	M25E	96	10	960	F148313
	Sterilized Capillary Piston 50 µL (CP50ST)	20 - 50	M50E	96	6	576	F148712
	Sterilized Capillary Piston 100 µL (CP100ST)	10 - 100	M100E	96	2	192	F148415
	Sterilized Capillary Piston 250 µL (CP250ST)	50-250	M250E	96	10	960	F148315
	Sterilized Capillary Piston 1000 µL (CP1000ST)	100 - 1000	M1000E	91	2	182	F148714

microman®

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- 오일, 혈액, 글리세롤 등 점성이 있거나 휘발성 액체샘플 피펫팅시 최고의 정밀도 제공
- 에어로졸 형성 및 교차 오염을 완벽하게 차단하여 샘플과 사용자의 안전성 확보
- 특허 받은 QuickSnap 기능을 통해 한 번의 동작으로 Capillary Piston을 안전하게 장착하고 보호함
- 다음과 같은 상황의 문제를 해결
 - 점성 용액: 샘플을 흡입하기 어려움
 - 휘발성 용액: 압력의 차이로 인해 샘플이 누출
 - 차가운 액체: 샘플이 많이 흡입
 - 뜨거운 액체: 샘플이 적게 흡입



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