



GILSON® pipetman®

DIAMOND TIPS

PIPETMAN® DIAMOND TIPS

Standard is Gilson

Pipetman® Diamond Tips
Pure Performance Tips
for superl results





pipetman®

DIAMOND TIPS

길슨 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™ ▶



스탠다드 피펫맨 다이아몬드 팁

랙 타입



TIPACK™

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

개별 멸균 포장



STERILPACK

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

벌크 타입



EASYPACK AND ECOPACK

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

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.

Ordering Information

STANDARD PIPETMAN® DIAMOND TIPS

Sales unit \ Package								
		Racked		Racked (Sterile)		Bulk		Bulk
		TIPACK				ECOPACK		EASYPACK
	D10 0.1-10 µL • 30 mm	F171100	960 tips	F171101	960 tips	F161630	F161630—Bag 10*1,000 tips 1,000 tips	F161631 5*200 tips
	DL10 0.1-20 µL • 45 mm	F171200	960 tips	F171201	960 tips	F161450	F161450—Bag 10*1,000 tips 1,000 tips	F161451 5*200 tips
	D200 2-200 µL • 51 mm	F171300	960 tips	F171301	960 tips	F161930	F161930—Bag 10*1,000 tips 1,000 tips	F161931 5*200 tips
	D300 10-300 µL • 51 mm	F171400	960 tips	F171401	960 tips	F161730	F161730—Bag 10*1,000 tips 1,000 tips	F161731 5*200 tips
	D1000 100-1000 µL • 66 mm	F171500	960 tips	F171501	960 tips	F161670	F161670—Bag 10*1,000 tips 1,000 tips	F161671 5*200 tips
	D1200 50-1200 µL • 84 mm	F171600	960 tips	F171601	960 tips	F161110	F161110—Bag 10*1,000 tips 1,000 tips	F161111 5*200 tips
	D5000 0.5-5 mL • 10.4 cm	F161370 600 tips	F161370 -RACK 50 tips	-	-	-	-	F161571 3*334 tips
	D10mL 1-10 mL • 16 cm	F161230 240 tips	F161230 -RACK 30 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
DL10/D200/D300 DFL10ST/DF30ST/DF100ST DF200ST/DF300ST
D1000/D1200/DF1000ST/ DF1200ST

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.
- 필터 리필 제품도 있습니다.

RELOAD PACK



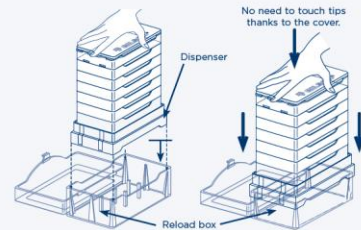
- 빠르게 재사용 가능합니다.
- 플라스틱을 70% 적게 사용하고 재활용 가능한 포장으로 친환경적입니다.
- 보관이 간편하고 실험공간을 적게 차지합니다.
- 오토클레이브 하여 사용 가능합니다.



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 포장비닐을 제거하여 Tip Box에 옮긴 후 오토클레이브 하는 것을 추천합니다.



스탠다드 피펫맨 다이아몬드 팁 주문정보

Individual (Sterile)	Refill	Refill (Sterile)	Refill	Refill	Refill (Sterile)
STERILPACK	REFILL VERSIONS		RELOAD PACK	TOWER PACK	
-	-	-	-	F167101 960 tips	F167201 960 tips
-	F172200 960 tips	F172201 960 tips	F167012 960 tips	F167102 960 tips	F167202 960 tips
F161330 400 tips	F172300 960 tips	F172301 960 tips	F167013 960 tips	F167103 960 tips	F167203 960 tips
-	F172400 960 tips	F172401 960 tips	-	F167105 960 tips	F167205 960 tips
F161340 400 tips	F172500 960 tips	F172501 960 tips	F167014 576 tips	F167104 672 tips	F167204 672 tips
-	F172800 960 tips	F172801 960 tips	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Reload Boxes		EMPTY RELOAD BOXES For Tower Pack	DESCRIPTION	Reload Box	
F171204 (2ea)			D10, DL10, D200, D300, D1000	F167100 (1ea)	
F171504 (2ea)					

Pipetman® Diamond Filter Tips

DIAMOND FILTER TIPS Certificate of Conformity



The certification comprises the following tests:

Bio-molecule detection protocols

Disa-molecule detection protocols
For all tests, disposable tips are rinsed with sterile Dnase-RNase free water called «liquid extracts». Negative controls, positive and extract controls are made to validate all steps of the different assays.

Human DNA detection ≤ 2 pg

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. Amplicons are obtained after cycles of amplification, analyzed by electrophoresis on a 2% agarose gel with TBE 0.5X buffer. No DNA has to be detected in the sample.

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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 rRNA 16S gene).
A range of bacterial DNA (2, 5, 10, 20 and 50 pg) is also amplified and used as positive control. Amplicons are obtained after cycles of amplification, analyzed by electrophoresis on a 2% agarose gel into TBE 0.5X buffer.

NO LHA HAVE TO BE d

RNA detection < 1 pg
Preparation of sample with sterile and pyrogen free water. Extraction, purification and RNA concentration are performed 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. Amplicons 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

Endotoxin Detection < 0.005 EU/mL
Gibson sterilized DIAMOND Tips certified 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 2.6.14 methodology for bacterial endotoxin testing.

DNoise detection ≤ 12.5 p.

DNAse detection (12.5 pg)
Preparation of sample with sterile and pyrogen free water. 10 μ L of liquid extract are incubated 2 hours at 37°C with variable concentrations of 100 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 sample 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 degradation of negative control and the sample have to be identical.

RNAse detection < 0.25 µ

RNase detection < 0.25 ng
Preparation of sample with sterile and pyrogen free water: 10 μ l. of liquid extract are incubated 10' at room temperature (20-25°C) with 350 ng of RNA (0.1–20k RNA ladder). Positive control: (350 ng of RNA + 0.25 ng of RNase A) and negative control (350 ng of RNA) are incubated in the same conditions. Samples are analyzed by electrophoresis (2% agarose gel, 100 V, 100 mA, 1 h). The intensity of sample signals is compared with the positive and negative controls. The degradation of RNA indicates the presence of RNase in the liquid extract. No denaturation has to be observed. The intensity of control bands and the sample have to be identical.

ATB detection < 110% ms

ATP detection < 1.10⁻¹⁰ 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 standards curves. No ATP has to be detected.

Baseline distribution of 10 cases

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 absorption 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 at the plate reader. The intensity of samples signals is compared with negative and positive controls curve. 50 proteins 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 0.25%, 0.50%, 1%, 2%, 5%), negative control is sterile and pyrogen free water. A DNA fragment with the same size of amplicon have to be detected.



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
- Endonucleases
- Proteases

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 11173-2 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



www.gilson.com/ContactUs


Hervé Le Dorze
Quality Director



피펫맨 다이아몬드 필터 팁 주문정보

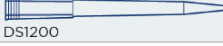
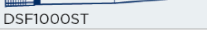


Sales unit \ Package			Racked (Sterile)	Refill (Sterile)
			TIPACK	REFILL VERSIONS
	DF10ST	0.1-10µL • 30 mm	F171103	-
			960 tips	
	DFL10ST	0.1-10µL • 45 mm	F171203	F172203
			960 tips	960 tips
	DF30ST	2-30µL • 51 mm	F171303	F172303
			960 tips	960 tips
	DF100ST	10-100µL • 51 mm	F171403	F172403
			960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

피펫맨 다이아몬드 팁 for PIPETMAX®

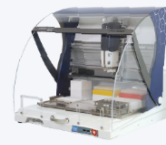
REFILL VERSIONS FOR PIPETMAX® CERTIFIED 384-WELL

Ordering Information

REFILL VERSIONS FOR PIPETMAX®-CERTIFIED 384-WELL				
Sales unit \ Package		Refill	Refill (Sterile)	Filter Refill (Sterile)
		REFILL VERSIONS		FILTER 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® 268

pipetmax® 278



PIPETMAX® 268



PIPETMAX® 278

- 신속한 시작을 위한 예제 프로토콜 제공
- 정확하고 재현성 높은 소량 분주
- 스마트한 팁 관리로 속도 향상 및 비용 절감
- 전용 자동화 팁 없이 표준 팁 사용 (길스 다이아몬드 팁)
- 다양한 옵션 모듈 지원
- GILSON 전문가의 맞춤형 기술 지원

CP 팁

CAPILLARY PISTONS

길스 Microman® E와 함께 사용하여
교차오염으로부터 100% 보호!



Ordering Information

CAPILLARY PISTON							
Capillary Piston Model		Volume Range(µL)	MICROMAN® 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	F148013
	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	F148180

직접치환형 피펫 마이크로맨 E

- 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



microman® E

