

SEROLOGICAL PIPETTES



SPECIFICATIONS

APPLICATIONS

Serological pipettes are available in models ranging from 1 to 50 mL and are recommended for use with MACROMAN® or with any pipette controller, manual pipette pump, or rubber bulb pipettes.

They are used for: cell culture, molecular biology, microbiology, or any application that requires aliquots or aspirating/dispensing non-toxic liquids in a contamination-free environment.

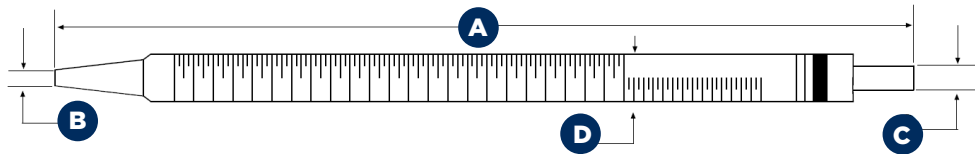
FEATURES

PERFORMANCE	
Consistent performance	Reliability, accuracy is +/-3% at full volume for 1 and 2 mL
	Reliability, accuracy is +/-2% at full volume for 5, 10, 25, and 50 mL
DNase/RNase free	Tested by nuclease assay method and found to be free of detectable DNase/RNase contamination
	The assay detection limit is 10 ⁻⁷ Kunitz units/μL for DNase and 10 ⁻⁹ Kunitz units/μL for RNase
Non-pyrogenic	Low endotoxins, the acceptance level for product is ≤ 0.125 EU/mL or ≤ 5 EU/device
Sterility	Gamma-irradiated – Sterility Assurance Level (SAL) 10 ⁻³
	Shelf life 3 years
	Disposable products – not suitable for reuse or re-sterilization
MATERIALS	
Crystal grade polystyrene	USP Class VI polystyrene
	Can clearly see fluid sample
Polyester fiber plug	High protection against over-pipetting and contamination by liquids and aerosols
GRADUATION	
Crisp, legible, and rotogravure printing	Easily read sample volumes
Negative graduations	Can measure beyond the nominal volume of the pipette for extra capacity
Reverse graduations	Easily read the amount of liquid aspirated or dispensed
	No reverse graduation for the 1 mL pipettes
IDENTIFICATION AND PACKAGING	
Color coding	Ease of identification on packaging and blow-out rings
For individually wrapped packaging	Two ways to open: peel or pop-through



TECHNICAL DATA

	1 mL	2 mL	5 mL	10 mL	25 mL	50 mL	
Color code	Yellow	Green	Blue	Red	Magenta	Black	
Pipette style	Drawn, 1-piece		Welded, 2-piece		Welded, 3-piece		
Reverse graduation	No	Yes					
Major graduation	0.1 mL		1 mL				
Minor graduation	0.01 mL		0.1 mL		0.25 mL	NA	
Overfill capacity	0.4 mL	0.8 mL	2.5 mL	3 mL	7 mL	10 mL	
Total capacity	1.4 mL	2.8 mL	7.5 mL	13 mL	32 mL	60 mL	
GENERAL DIMENSIONS	Overall length A Tip outer diameter B Mouth piece outer diameter C Body outer diameter D	279.40 mm 3.35 mm 4.65 mm 4.65 mm	282.58 mm 3.73 mm 6.27 mm 6.27 mm	348.15 mm 3.35 mm 8.03 mm 8.03 mm	346.81 mm 3.35 mm 8.05 mm 9.61 mm	310.90 mm 4.78 mm 7.62 mm 15.16 mm	368.17 mm 5.49 mm 7.62 mm 17.78 mm
TIP	Length Interior diameter Outside diameter B	NA 1.67 mm 3.35 mm	NA 1.63 mm 3.73 mm	37.36 mm 1.57 mm 3.35 mm	37.36 mm 1.57 mm 3.35 mm	39.24 mm 2.36 mm 4.78 mm	39.24 mm 3.18 mm 5.49 mm
MOUTHPIECE	Length Interior diameter Outside diameter C Plug length	NA 2.96 mm 4.65 mm NA	NA 4.17 mm 6.27 mm NA	NA 6.01 mm 8.03 mm 15.09 mm	25.40 mm 5.72 mm 8.05 mm 15.88 mm	25.91 mm 5.08 mm 7.62 mm 14.30 mm	27.94 mm 5.59 mm 7.62 mm 14.30 mm
EXTRUSION	Length Interior diameter Outside diameter D	NA NA NA	NA NA NA	311.15 mm 6.01 mm 8.03 mm	285.75 mm 7.95 mm 9.61 mm	249.35 mm 13.43 mm 15.16 mm	301.12 mm 16.00 mm 17.78 mm
STERILE, INDIVIDUALLY WRAPPED	Quantity individually wrapped/bags Quantity/case	100 1000	100 1000	50 200	50 200	50 200	25 100
STERILE BULK/BAGS	Quantity bulk/bags - sterile Quantity/case	25 1000	25 1000	25 500	25 500	20 200	NA NA



NOTICE

Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures.

CAUTION

Disposable product - Not suitable for reuse or re-sterilization. It could damage the product and alter its performance.

ORDERING INFORMATION

MODEL	VOLUME	PART NUMBER	RING
Sterile bags of 25 units	1 mL	F110121	Yellow
	2 mL	F110123	Green
	5 mL	F110125	Blue
	10 mL	F110127	Red
Sterile bags of 20 units	25 mL	F110129	Magenta
Sterile, individually wrapped	1 mL	F110122	Yellow
	2 mL	F110124	Green
	5 mL	F110126	Blue
	10 mL	F110128	Red
	25 mL	F110130	Magenta
	50 mL	F110131	Black



COMPLIANCE

Inspection for BSE/TSE, USP Class VI, Non-Pyrogenic, Volumetric Accuracy, DNase/RNase, Sterility, and Quality Control Testing

Quality Management System

Complies with the current version of the EN ISO 9001 Standard and the EN ISO 13485 Standard.

- BSE/TSE**

Product complies with the latest revision of EMA/410/01 “Note for Guidance on minimising the risk of transmitting animal spongiform encephalopathy agents via human and veterinary medicinal products” by virtue of all bovine derived material having been processed per specific conditions of section 6.4 of EMA/410/01.

- USP Class VI Testing**

All material resin is tested, qualified, and shown to be non-toxic as established in the Standards USP Class VI Chapter <87>, “Biological Reactivity Tests, in Vitro” and Chapter <88>, “Biological Reactivity Tests, in Vivo”.

- Non-Pyrogenic**

Tested and met the criteria established in the current version of United States Pharmacopeia (USP) Chapter <85>, “Bacterial Endotoxins Test”. The acceptance level for product is ≤ 0.125 EU/mL or ≤ 5 EU/device.

- Volumetric Accuracy**

Serological pipettes of 1 and 2 mL are accurate to +/-3% at full volume in compliance with ASTM E934, “Standard Specification for Serological Pipettes, Disposable Plastic” and ISO 12771, “Plastics Laboratory Ware – Disposable Serological Pipettes”.

Serological pipettes of 5 mL and more are accurate to +/-2% at full volume in compliance with ASTM E934, “Standard Specification for Serological Pipettes, Disposable Plastic” and ISO 12771, “Plastics Laboratory Ware - Disposable Serological Pipettes”.

- DNase/RNase Free**

Tested by nuclease assay method and found to be free of detectable DNase/RNase contamination. The assay detection limit is 10^{-7} Kunitz units/ μ L for DNase and 10^{-9} Kunitz units/ μ L for RNase.

- Sterility**

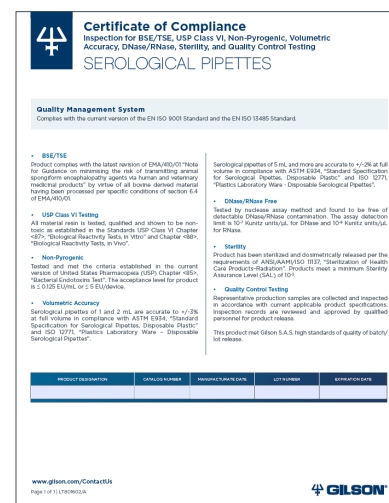
Product has been sterilized and dosimetrically released per the requirements of ANSI/AAMI/ISO 11137, “Sterilization of Health Care Products–Radiation”. Products meet a minimum Sterility Assurance Level (SAL) of 10^{-3} .

- Quality Control Testing**

Representative production samples are collected and inspected in accordance with current applicable product specifications. Inspection records are reviewed and approved by qualified personnel for product release.

This product met Gilson S.A.S. high standards of quality of batch/lot release.

Download the certificate of compliance LT801602/A on the [Gilson Knowledge Center](#).



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