

Choosing the right **pipette tip** for the right application

Help ensure accuracy, protect samples and optimize performance

Step 1: Know your application

Application type	Necessary tip feature	Why it matters
PCR and qPCR	Filtered low retention 	Helps prevent loss of precious reagents
Cell culture	Filtered 	Assists in avoiding cross-contamination
Viscous liquids (e.g., glycerol)	Wide bore or low retention 	Aids in accurate volume transfer
DNA/RNA work	Certified RNase/DNase-free 	Supports sample integrity
Volatile or hazardous samples	Aerosol barrier 	Helps protect user and equipment

Step 2: Match tip to pipette

Pipette type		Compatible tip
Manual single channel		Universal fit 
Multichannel		Low retention 
Electronic pipette		Tips optimized for consistent fit/seal 
System pipette		Tips designed for the pipette cone 

Step 3: Consider tip material

Polypropylene (standard): ideal for general lab use 	Low retention surface treatment: to reduce sample waste 
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Step 4: Choose the right volume range

Tip volume	Applications
10 µL	Enzymes, PCR
200 µL	General sample preparation
1000 µL (1 mL)	Larger transfers
>1 mL (macro tips)	Bulk liquid handling

Step 5: Look for appropriate certifications

RNase/DNase free	
Pyrogen free	
Sterile (if needed)	
Endotoxin free	
Traceability/lot certification	

For best performance, use the tips recommended by the pipette manufacturer.

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