

## Features & Benefits

**"An excellent fitting pipet tip is one that allows the pipetter to reach its peak performance."**

Recognized as the world leader in pipet tip manufacturing, our goal is to continue providing the best fitting tips in the marketplace. Today, there are a myriad of pipettors to consider when designing and manufacturing pipet tips. Because dimensions and applications vary from one pipetter to the next, we offer a variety of pipet tips to select from.

With more than fifty pipet tips, covering a volume range of 0.1 to 10,000µl, available with or without filters, in a variety of colors, materials and packaging configurations, the researcher can select the best fitting tip for their particular pipetter and application.

**QSP Brand** pipet tips are made from virgin polypropylene material and are precision molded for airtight fit using state of the art molds and molding methods to preserve non-wettability in the final product. A mold release agent is *NOT* used in the manufacturing of QSP brand pipet tips.

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### **Metal Free Tips**

All materials used in the manufacture of our products are free of trace metals. A trace metal certificate is available upon request.

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### **Certified Pipet Tips**

Tested by an independent laboratory and certified to be RNase, DNase and Pyrogen Free. (Non-Sterilized product is not certified as pyrogen free). Certificate of analysis available upon request.

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### **Sterile Tips**

All products are sterilized in accordance with AAMI guidelines by gamma irradiation. Certificate of irradiation available upon request.

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### **Autoclavable Tips & Racks**

Pipet tips and racks are autoclavable at a recommended temperature of 120° C at 15 pounds of pressure for 15 minutes.

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### **First-Class Filter Tips**

Specifically designed for PCR\* work, these pipet tips prevent airborne contaminants from coming in contact with the barrel of the pipetter.

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### **Low Adhesion Tips**

These siliconized tips, minimize liquid retention and ensure optimum sample yield.

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### **Gel-Loading Tips**

Useful for a wide variety of sample loading applications such as protein separations, nucleic acid sequencing and other gel loading applications.

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### **Graduated Tips**

Provides reference lines to allow a quick check of pipetting procedures by indicating nominal liquid volume in tip.

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### **Extra Long Tips**

To ensure maximum sampling.

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### **Thin Wall Orifice Tips**

Improves small volume pipetting. Reduces liquid retention.

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### **Wide Orifice Tips**

Eliminates shearing of fragile cells. Helps in pipetting small volumes of viscous materials.

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### **Beveled Orifice Tips**

Reduces liquid retention.

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### **Robotic Tips**

Manufactured of Carbon Black-Conductive Polypropylene for robotic liquid handling systems.

## Packaging Options

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### **Bagged**

*economical package*

### **96 Tip Rack - Standard**

*most popular - features convenient lift-off cover - ideal for multi & single channel pipetting*

### **96 Tip Rack - Hinged**

*features attached cover - accommodates multi & single channel pipetters*

### **96 Tip Heavy Duty Compartment Rack**

*eliminates cross contamination -extra stability for automated liquid handling systems and multi-channel pipetters*

### **100 Tip Rack**

*accommodates large volume and extra long tips - ideal for single channel pipetting*

### **100 Tip Rack - Hinged**

*with attached cover - accommodates large volume tips for single channel pipetting*

### **200 Tip Rack**

*accommodates small volume tips - ideal for single channel pipetting*

Our bagged (bulk) tips are the economical choice for those refilling empty QSP racks. The majority are packaged 1,000 tips in a heavy duty zip closure plastic bag, 10 bags per case.

The versatile QSP 96 tip rack, with its convenient 8 X 12 format, accommodates multi and single channel pipetters. Precise hole spacing offers perfect alignment with 96 well microtiter plates. This rack has the popular lift-off cover and a sonically welded base. The entire unit is completely autoclavable.\* Packaged 96 tips per rack, 10 racks per unit, 5 units per case.

With a unique closure that is easy to open and close yet remains latched when necessary, QSP hinged racks also feature "stacking walls" on both the top and bottom of the rack to provide extra stability when stacking one on top of the other. The top can be left partially open for complete steam penetration when autoclaving. Superior construction provides maximum support for mounting tips on multi-channel pipetters. Each rack holds 96 tips in the 8 X 12 format. Packaged 10 racks per unit, 5 units per case.

Note: The four posts on the hinged rack insert are for securing the QLS® tip carrier in place. QLS® eliminates 80% of the plastic waste, and all materials used are recyclable. Please refer to page 25 for further information.

This heavy duty rack features 96 individual inner compartments keeping tips separated from each other to eliminate the possibility of cross contamination. The inner wall structure adds extra stability, making our heavy duty compartment rack ideal for use with automated liquid handling systems and multichannel pipetters. It is completed with our lift-off cover and a sonically welded base. The entire unit is completely autoclavable.\* Packaging is the same as our standard 96 tip rack.

Each rack holds 100 large volume or extra long tips. With its sonically welded base and lift-off cover, the entire unit is completely autoclavable.\* Rack extensions are used for extra long tips. Quantity per unit and case vary.

Note: A specially designed 100 tip rack is used for our ultra micro #114 tip.

The unique closure remains latched when necessary yet is easy to open and close. QSP hinged racks also feature "stacking walls" on both the top and bottom of the rack to provide extra stability when stacking one on top of the other. The top can be left partially open for complete steam penetration when autoclaving. Superior construction provides maximum support for mounting tips on pipetters. Packaged 10 racks per unit, 5 units per case.

Our 200 tip rack also has a sonically welded base, lift-off cover, and is completely autoclavable.\* Loaded with small volume tips, it is ideal for those working with single channel pipetters. Packaged 200 tips per rack, 5 racks per unit, 10 units per case.

\*Refer to Section 6 for recommended autoclaving instructions.

## Packaging Options

### Stack Rack System

*offers the convenience of racked tips at an economical price*

The QSP stack rack systems utilize the same rack, base and lift-off cover as our 100 and 200 tip racks. These systems offer the convenience of racked tips at an economical price.

The 100 tip rack is nested five high, with a welded base on the bottom rack and is completed with a lift-off cover. Two stacks (5 racks of 100 tips) are shrink wrapped together.

Our 200 tip rack is also nested five high, with a welded base on the bottom rack and is completed with a lift-off cover. The unit (5 racks of 200 tips) is shrink wrapped.

Both can be autoclaved, however, our stack racks are primarily designed for those who do not autoclave tips.

### Q-Stack<sup>5</sup>

Five preloaded 96 tip racks are stacked on top of each other conserving space, plastic waste and shipping charges. The 8 x 12 rack hole configuration is functional for both single and multi channel pipetters. Sonically welded base and lift-off cover maintain cleanliness and integrity.

### 204 Tip Rack

*for speciality, gel loading & extra long tips*

Designed specifically for the longer gel loading and small volume extra long tips. Rack hole configuration is 12 x 17. The rack is completed with a sonically welded base and lift-off cover. Extra long tips require a rack extension. Each unit is completely autoclavable.\* Quantity per unit and case vary.

### Single Wrap - Sterilized

*available in small quantities*

Pre-sterilized, these individually wrapped tips are ideal for those times when only a few tips are needed. Due to small quantity requirements, QSP offers these tips **for sale by the unit or case**.

### QLS<sup>®</sup>

#### Quality Loading System

*economically priced  
easy to use  
environmentally conscious*

Our patented QLS<sup>®</sup> (Quality Loading System), consists of five preloaded tip carriers (96 tips each) and offers immediate savings by allowing the reloading of empty 96 tip racks. Valuable storage space and plastic waste are significantly reduced. Designed for use with the QSP lift-off cover racks or hinged racks.

### Catalog Key

*Common abbreviations used throughout the catalog*

QLS<sup>®</sup> - Quality Loading System

S - Sterile

H - Hinged

HRI - Hinged Rack Insert

w - with

w/o - without

\* - may be purchased by the unit

\*Refer to Section 6 for recommended autoclaving instructions.