

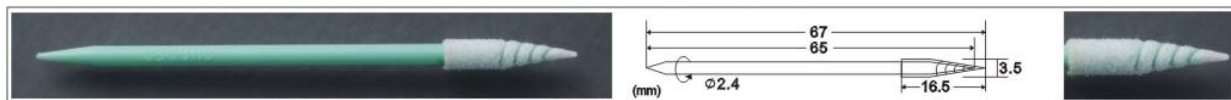


1525 N. Endeavor Pl., Suite E. Anaheim, CA 92801

Tel: (714) 635-2222, Fax: (714) 635-2223, WWW.Q-LEAP.US

**Product No.** QL-067BFST

**Product Description** 67mm Foam sharp Tip Swab



#### Features/Benefit

- Packing: 100 Swabs/Inner Bag, 5 Inner Bags/Pack, 40 Packs/Case.
- Handle Width: 2.4mm
- Total Swab length: 67mm
- Head material: PU Foam
- Handle material: Polypropylene
- Type of Swab Head: Sharp Tip
- Handle Color: blue
- 100 ppi open-cell PU foam structure with superior absorption, ultralow nonvolatile residue, good abrasion and dust removal capability.
- Solvent resistant such as acetone and IPA.
- Low particle and fiber generation.

#### Applications

- ROHS, REACH compliant
- ISO class 5-8 Cleanroom compatible

#### Contamination Characteristics

| Property                                     | Typical Value           | Test Method                    | Remarks             |
|----------------------------------------------|-------------------------|--------------------------------|---------------------|
| <b>LPC <math>\geq 0.5 \mu\text{m}</math></b> | 1,223 counts/tip        | IEST-RP-CC004.3(2004)6.1.4&6.2 |                     |
| <b>NVR (IPA)</b>                             | 0.0552 mg/tip           | IEST-RP-CC004.3(2004)7.1.2     |                     |
| <b>SO<sub>4</sub><sup>2-</sup></b>           | 0.010 $\mu\text{g/tip}$ | IEST-RP-CC004.3(2004)7.2.2     |                     |
| <b>Cl<sup>-</sup></b>                        | 0.027 $\mu\text{g/tip}$ | IEST-RP-CC004.3(2004)7.2.2     |                     |
| <b>Silicone</b>                              | ND                      | IEST-RP-CC004.3(2004)7.2.1     | Not Detected (<MDL) |
| <b>Amine</b>                                 | ND                      | IEST-RP-CC004.3(2004)7.2.1     | Not Detected (<MDL) |
| <b>DOP</b>                                   | ND                      | IEST-RP-CC004.3(2004)7.2.1     | Not Detected (<MDL) |

- Note: Data in the table represents typical analysis of the swab at time of publication.
- Q-Leap lab meets ISO 17025 Standards for testing cleanroom materials.

- Q-Leap production facility is ISO 9001:2008 and ISO 14001:2004 certified.

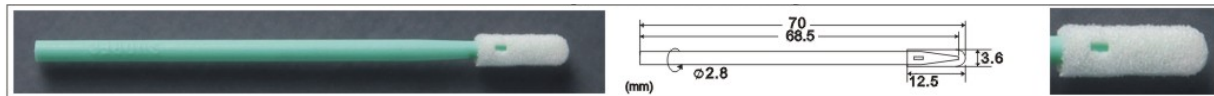


1525 N. Endeavor Pl., Suite E. Anaheim, CA 92801

Tel: (714) 635-2222, Fax: (714) 635-2223, WWW.Q-LEAP.US

**Product No.** QL-070BFRT

**Product Description** 70mm Foam Round Tip Swab



#### Features/Benefit

- Packing: 100 Swabs/ Inner Bag, 5 inner Bags/ Pack, 40 Packs/ Case
- Handle Width: 2.7mm
- Total Swab length: 70mm
- Head material: PU Foam
- Handle material: Polypropylene
- Type of Swab Head: Round Tip
- Handle Color: blue
- 100 ppi open-cell PU foam structure with superior absorption, ultralow nonvolatile residue, good abrasion and dust removal capability.
- Solvent resistant such as acetone and IPA.
- Low particle and fiber generation.

#### Applications

- Comply with ROHS and REACH standards.
- ISO class 5-8 Cleanroom compatible

#### Contamination Characteristics

| Property                                     | Typical Value           | Test Method                    | Remarks             |
|----------------------------------------------|-------------------------|--------------------------------|---------------------|
| <b>LPC <math>\geq 0.5 \mu\text{m}</math></b> | 2,315 counts/tip        | IEST-RP-CC004.3(2004)6.1.4&6.2 |                     |
| <b>NVR (IPA)</b>                             | 0.0358 mg/tip           | IEST-RP-CC004.3(2004)7.1.2     |                     |
| <b>SO<sub>4</sub><sup>2-</sup></b>           | 0.017 $\mu\text{g/tip}$ | IEST-RP-CC004.3(2004)7.2.2     |                     |
| <b>Cl<sup>-</sup></b>                        | 0.036 $\mu\text{g/tip}$ | IEST-RP-CC004.3(2004)7.2.2     |                     |
| <b>Silicone</b>                              | ND                      | IEST-RP-CC004.3(2004)7.2.1     | Not Detected (<MDL) |
| <b>Amine</b>                                 | ND                      | IEST-RP-CC004.3(2004)7.2.1     | Not Detected (<MDL) |
| <b>DOP</b>                                   | ND                      | IEST-RP-CC004.3(2004)7.2.1     | Not Detected (<MDL) |

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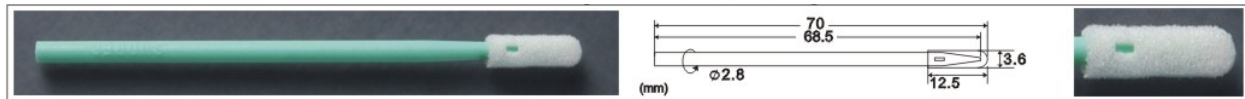


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Tel: (714) 635-2222, Fax: (714) 635-2223, WWW.Q-LEAP.US

**Part No.:** QL-070DFRT-ESD1

**Product Description:** 70 mm foam round tip, anti-static handle



#### Features:

- Handle material: ESD PP, 2.7 mm dia., 58 mm length, black color
- Head material: Open-cell PU foam, round-tip, 12 mm head length
- Total swab length: 70 mm
- Packaging: 100 pcs/inner bag, 5 inner bag/outer bag, 40 bags/carton, (20,000 pcs/carton)

#### Applications/benefit:

- Good liquid absorption and capacity
- Can be used with solvent such as alcohol, acetone and IPA
- Low fiber and particle generation
- Anti-static property
- ROHS, REACH compliant
- Cleanroom ISO class 5-8 compatible

#### Performance Characteristics

| Property              | Typical Value          | Test Method               | Remarks |
|-----------------------|------------------------|---------------------------|---------|
| Electrical Resistance | $1 \times 10^9 \Omega$ | IEST-RP-CC004.3 (2004) 10 |         |

#### Contamination Characteristics

| Property                      | Typical Value            | Test Method                        | Remarks |
|-------------------------------|--------------------------|------------------------------------|---------|
| LPC $\geq 0.5 \mu\text{m}$    | 2,843 counts/tip         | IEST-RP-CC004.3 (2004) 6.1.4 & 6.2 |         |
| NVR (DIW)                     | 0.0423 mg/tip            | IEST-RP-CC004.3 (2004) 7.1.2       |         |
| NVR (IPA)                     | 0.1027 mg/tip            | IEST-RP-CC004.3 (2004) 7.1.2       |         |
| SO <sub>4</sub> <sup>2-</sup> | 0.097 $\mu\text{g}$ /tip | IEST-RP-CC004.3 (2004) 7.2.2       |         |
| Cl <sup>-</sup>               | 0.062 $\mu\text{g}$ /tip | IEST-RP-CC004.3 (2004) 7.2.2       |         |
| Silicone                      | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | <MDL    |
| Amine                         | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | <MDL    |
| DOP                           | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | <MDL    |

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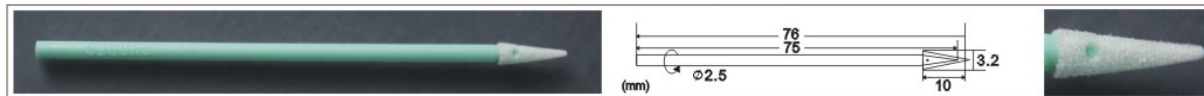


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Tel: (714) 635-2222, Fax: (714) 635-2223, WWW.Q-LEAP.US

**Product No.** QL-076BFST

**Product Description** 76 mm Foam sharp Tip Swab



#### Features/Benefit

- Packing: 100 Swabs/Inner Bag, 5 Inner Bags/Pack, 40 Packs/Case.
- Handle Width: 2.5mm
- Total Swab length: 76mm
- Head material: PU Foam
- Handle material: Polypropylene
- Type of Swab Head: Sharp Tip
- Handle Color: blue
- 100 ppi open-cell PU foam structure with superior absorption, ultralow nonvolatile residue, good abrasion and dust removal capability.
- Solvent resistant such as acetone and IPA.
- Low particle and fiber generation.

#### Applications

- Comply with ROHS and REACH standards.
- ISO class 5-8 Cleanroom compatible

#### Contamination Characteristics

| Property                                     | Typical Value            | Test Method                    | Remarks             |
|----------------------------------------------|--------------------------|--------------------------------|---------------------|
| <b>LPC <math>\geq 0.5 \mu\text{m}</math></b> | 1,089 counts/tip         | IEST-RP-CC004.3(2004)6.1.4&6.2 |                     |
| <b>NVR (IPA)</b>                             | 0.0401 mg/tip            | IEST-RP-CC004.3(2004)7.1.2     |                     |
| <b>SO<sub>4</sub><sup>2-</sup></b>           | 0.015 $\mu\text{g}$ /tip | IEST-RP-CC004.3(2004)7.2.2     |                     |
| <b>Cl<sup>-</sup></b>                        | 0.023 $\mu\text{g}$ /tip | IEST-RP-CC004.3(2004)7.2.2     |                     |
| <b>Silicone</b>                              | ND                       | IEST-RP-CC004.3(2004)7.2.1     | Not Detected (<MDL) |
| <b>Amine</b>                                 | ND                       | IEST-RP-CC004.3(2004)7.2.1     | Not Detected (<MDL) |
| <b>DOP</b>                                   | ND                       | IEST-RP-CC004.3(2004)7.2.1     | Not Detected (<MDL) |

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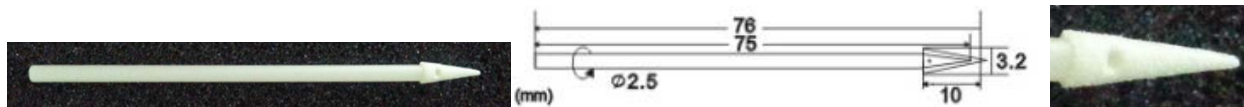


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Tel: (714) 635-2222, Fax: (714) 635-2223, WWW.Q-LEAP.US

**Part No.:** QL-076DFST-ESD1

**Product Description:** 76 mm foam sharp tip, anti-static handle



#### Features:

- Handle material: ESD PP, 2.5 mm dia., 66 mm length, Black color
- Head material: Open-cell PU foam, sharp-tip, 10 mm head length
- Total swab length: 76 mm
- Packaging: 100 pcs/inner bag, 5 inner bag/outer bag, 40 bags/carton, (20,000 pcs/carton)

#### Applications/benefit:

- Good absorption with good capacity
- Reach to tiny grooves or corners
- Can be used with solvent such as alcohol, acetone and IPA
- Low fiber and particle generation
- Anti-static property
- ROHS, REACH compliant
- Cleanroom ISO class 5-8 compatible

#### Performance Characteristics

| Property              | Typical Value | Test Method               | Remarks |
|-----------------------|---------------|---------------------------|---------|
| Electrical Resistance | $10^9 \Omega$ | IEST-RP-CC004.3 (2004) 10 |         |

#### Contamination Characteristics

| Property                      | Typical Value            | Test Method                        | Remarks |
|-------------------------------|--------------------------|------------------------------------|---------|
| LPC $\geq 0.5 \mu\text{m}$    | 3,014 counts/tip         | IEST-RP-CC004.3 (2004) 6.1.4 & 6.2 |         |
| NVR (DIW)                     | 0.0411 mg/tip            | IEST-RP-CC004.3 (2004) 7.1.2       |         |
| NVR (IPA)                     | 0.0981 mg/tip            | IEST-RP-CC004.3 (2004) 7.1.2       |         |
| SO <sub>4</sub> <sup>2-</sup> | 0.103 $\mu\text{g}$ /tip | IEST-RP-CC004.3 (2004) 7.2.2       |         |
| Cl <sup>-</sup>               | 0.056 $\mu\text{g}$ /tip | IEST-RP-CC004.3 (2004) 7.2.2       |         |
| Silicone                      | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | < MDL   |
| Amine                         | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | < MDL   |
| DOP                           | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | < MDL   |

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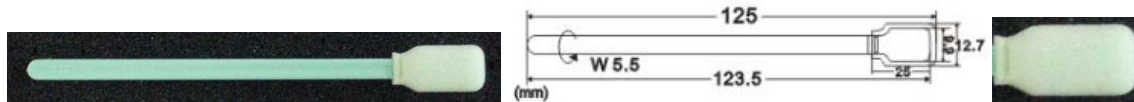


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**Part No.:** QL-125BFCT

**Product Description:** 125 mm flat tip open-cell foam head swab



**Features:**

- Handle material: PP, 5.5 mm width, 2.8 mm thickness, 100 mm length, light blue color
- Head material: Open-cell foam, flat-tip, 25 mm head length
- Total swab length: 125 mm
- Packaging: 100 swabs/bag, 50 bags/carton (5000 swabs/carton)

**Applications/benefit:**

- Good liquid absorption and capacity
- Can be used with solvents such as alcohol, acetone, and IPA
- Low fiber and particle generation
- ROHS, REACH compliant
- Cleanroom ISO Class 5-8 compatible

**Contamination Characteristics**

| Property                      | Typical Value            | Test Method                        | Remarks |
|-------------------------------|--------------------------|------------------------------------|---------|
| LPC $\geq 0.5 \mu\text{m}$    | 5,021 counts/tip         | IEST-RP-CC004.3 (2004) 6.1.4 & 6.2 |         |
| NVR (IPA)                     | 0.1655 mg/tip            | IEST-RP-CC004.3 (2004) 7.1.2       |         |
| SO <sub>4</sub> <sup>2-</sup> | 0.203 $\mu\text{g}$ /tip | IEST-RP-CC004.3 (2004) 7.2.2       |         |
| Cl <sup>-</sup>               | 0.102 $\mu\text{g}$ /tip | IEST-RP-CC004.3 (2004) 7.2.2       |         |
| Silicone                      | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | <MDL    |
| Amine                         | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | <MDL    |
| DOP                           | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | <MDL    |
|                               |                          |                                    |         |
|                               |                          |                                    |         |

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Q-Leap production facility is ISO 9001:2008 and ISO 14001:2004 certified.

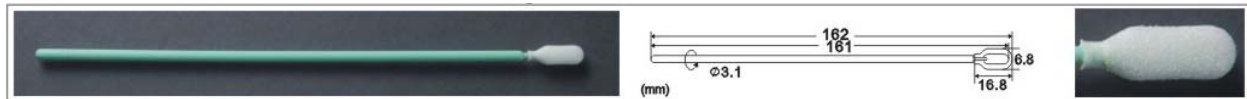


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Tel: (714) 635-2222, Fax: (714) 635-2223, WWW.Q-LEAP.US

**Part No.:** QL-162BFCT

**Product Description:** 162 mm flat tip, open-cell foam head swab



#### Features:

- Handle material: PP, 3.1 mm diameter, 146 mm length, light blue color
- Head material: Open-cell foam, flat-tip, 16 mm length
- Total swab length: 162 mm
- Packaging: 100 swabs/bag, 5 bags/pack (500 swabs/pack)

#### Applications/benefit:

- Good liquid absorption and capacity
- Can be used with solvents such as alcohol, acetone and IPA
- Low fiber and particle generation
- ROHS, REACH compliant
- Cleanroom ISO Class 5-8 compatible

#### Contamination Characteristics

| Property                      | Typical Value            | Test Method                        | Remarks |
|-------------------------------|--------------------------|------------------------------------|---------|
| LPC $\geq 0.5 \mu\text{m}$    | 3,789 counts/tip         | IEST-RP-CC004.3 (2004) 6.1.4 & 6.2 |         |
| NVR (IPA)                     | 0.1359 mg/tip            | IEST-RP-CC004.3 (2004) 7.1.2       |         |
| SO <sub>4</sub> <sup>2-</sup> | 0.166 $\mu\text{g}$ /tip | IEST-RP-CC004.3 (2004) 7.2.2       |         |
| Cl <sup>-</sup>               | 0.079 $\mu\text{g}$ /tip | IEST-RP-CC004.3 (2004) 7.2.2       |         |
| Silicone                      | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | <MDL    |
| Amine                         | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | <MDL    |
| DOP                           | ND                       | IEST-RP-CC004.3 (2004) 7.2.1       | <MDL    |
|                               |                          |                                    |         |
|                               |                          |                                    |         |

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- Q-Leap production facility is ISO 9001:2008 and ISO 14001:2004 certified.