MANTACC

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Life Science   Medical   Crime Science   C.D.C.& Environmental

Mantacc

Comprehensive OEM/ODM

In addition to the standard product line, Mantacc also offers a series of custom solutions and engineering services to meet the needs related to identification, regulatory chains, traceability, and packaging. Through close cooperation with customers, Mantacc always adheres to the principle of quality first, committed to providing innovative and practical laboratory consumables and related solutions, helping customers improve lab efficiency.

Traceability

We strictly follow the quality management system in the production process to ensure that every product has complete information. Our product labels include batch numbers, production dates, and expiration dates, among other key information, which facilitates traceability and management during use.

Packaging

We value environmental protection and the concept of sustainable development. We use high-quality and degradable materials for packaging to ensure that the products remain intact during transportation and storage and are easy to recycle and reuse.

OEM-ODM

38-39

Company Profile

Since its establishment in 2009, Miraclean Technology Co.Ltd. has been dedicated to providing comprehensive solutions for laboratory consumables. After more than a decade of diligent efforts, its own brand, Mantacc, holds a dominant market share in the global field of sample consumables. The company persists in pursuing an integrated approach of industry-academia-research innovation, actively establishing relationships with the clinical biology sector and top medical institutions. With increased investments in technology and research and development, it aims to meet customer needs with diverse offerings. Through continual refinement in the in-vitro diagnostics industry and the introduction of new products, the company consistently adheres to its corporate vision of "To Make the World Healthier".

Research and Development

Actively engaging with the clinical microbiology community, we are committed to continual investments in technology and research and development, providing the most cutting-edge and diverse product needs in the industry.

Production

We possess a robust manufacturing system and quality management system that meet various international standards, ensuring the provision of high-quality products and services.

Professionalism

We have a fully equipped molecular biology laboratory, a team of experts in medical science, product design, and engineering, as well as comprehensive manufacturing and packaging capabilities.

Quality and Compliance

Comprehensive Guidelines

Miraclean Technology Co.Ltd. has passed ISO 9001:2015, ISO 14001:2015, and ISO 13485:2016 certifications, showcasing its ability to provide products that meet customer and regulatory standards.

CE Mark
The CE mark ensures unrestricted circulation of products compliant with EU legislation in the European market. This mark is a significant indicator of product regulatory compliance (Medical Device Directive 93/42/EEC).

ISO 9001:2015 and ISO 14001:2015
Scope includes research and development, production, and sales of industrial swabs, cleaning card kits, disposable sterile sampling swabs; production of Non-dust paper and Non-dust cloth.

ISO 13485:2016
Scope includes the production and sales of sterile and non-sterile disposable sampling swabs, sterile and non-sterile disposable medical swabs, and transport medium.

FDA Approval
Entities involved in manufacturing and distribution, with an anticipation of use within the United States, must comply with the registration requirements set by the U.S. Food and Drug Administration (FDA).

Certifications

Why Choose Miraclean

GMP compliance and commitment
Our adherence to Good Manufacturing Practice (GMP) is not just a management guideline, but a code of conduct that drives our daily operations.

Cutting-edge automation and data-driven management
Our comprehensive data-based automation management system streamlines production, minimizes human error and increases efficiency.

Rigorous quality management system
Against the backdrop of a class 100,000 clean production environment, we strictly enforce the standards of medical device-related regulations from production equipment commissioning, operator training, first article confirmation, process inspection to end-point sampling and inspection, instant recording, filing, sample retention and re-inspection, etc.

Mantacc committed to producing each batch of products with the heart of an artisan, providing reliable testing tools and solutions for medical institutions, and enhancing the safety and comfort of medical interaction scenarios.

To Make the World Healthier ☎ +86-755-89616773 🌐 www.mantacc.com

We are dedicated to providing high-quality flocked swab products to meet the diverse needs of healthcare professionals, laboratories, and home users. The technology and superior materials used in manufacturing our swab heads ensure reliable and accurate sample collection, helping you achieve the best testing results.

Product Features

Comfortable and Efficient
Increases comfort for the person being sampled and the efficiency of sample collection.

Rapid Elution
Instantly and spontaneously releases into the liquid medium.

Precise Transfer
Provides measurable and consistent absorption and transfer from the patient to the tube. The vertical flocking fibre ensure effective absorption and complete release of liquid samples. The velvet-brush texture can quickly and effectively remove cells, enabling their full dispersion in the sample buffer or preservation medium.

High Compatibility
Mantacc flocked swabs are versatile and are the perfect choice for rapid antigen testing, EIA, PCR, molecular diagnostics, DFA, cytology, bacteriology, and virology cultures.

Breakpoint Design:
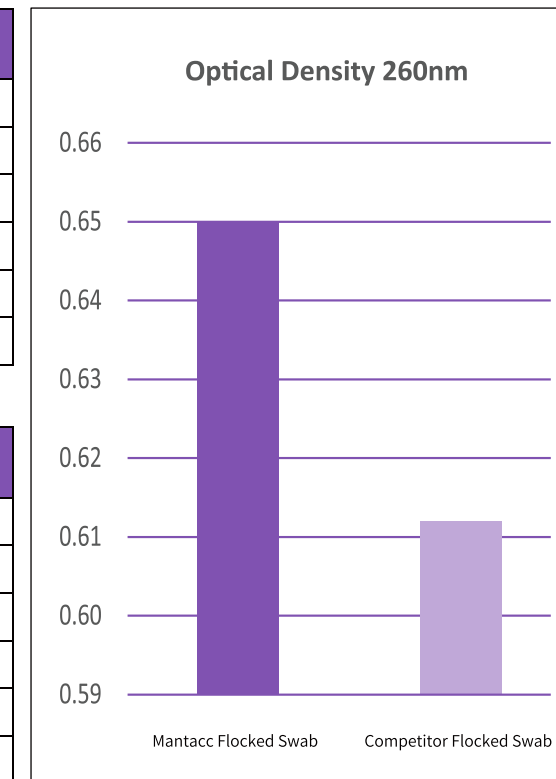Safe and easy-to-use molded breakpoint.

Performance Report for Flocked Swabs

CT Value for PCR Test of Influenza A Virus					
Temperature	Mantacc Flocked Swab			Competitor Flocked Swab		
4℃	10^5	10^4	10^3	10^5	10^4	10^3
0h	28	32	37	29	32	35
24h	28	33	36	29	33	37
48h	29	31	36	36	36	36
72h	29	32	36	29	32	38

CT Value for PCR Test of Influenza B Virus					
Temperature	Mantacc Flocked Swab			Competitor Flocked Swab		
4℃	10^5	10^4	10^3	10^5	10^4	10^3
0h	24	28	32	28	30	35
24h	24	29	32	29	31	35
48h	25	28	32	27	31	36
72h	25	28	32	28	31	36

CT Value for PCR Test of RSV Virus					
Temperature	Mantacc Flocked Swab			Competitor Flocked Swab		
4℃	10^5	10^4	10^3	10^5	10^4	10^3
0h	18	21	26	19	23	26
24h	18	22	26	20	23	27
48h	18	22	25	20	24	27
72h	19	21	25	20	24	26

Optical Density 260nm

Mantacc Flocked Swab	Competitor Flocked Swab

We are committed to providing high-quality sponge swab products to meet the diverse needs of healthcare professionals, laboratories, and home users. The material of the sponge swab head is usually polyurethane, which has a higher collection and release amount compared to traditional swabs. Mantacc sponge swabs are made from medical-grade open-cell polyurethane sponge that is thermoformed, and they can be widely used in areas such as respiratory infection detection, self-sampling, genetics and microbiomics, veterinary projects, and more.

Product Features

Medical-Grade Foam
The polyurethane foam texture has strong absorption, with excellent collection and release performance.

Quick, Non-invasive, and Comfortable
The sampling process is comfortable, suitable for both adults and children.

Easy to Customize
The thickness, width, and porosity can be customized to meet your various requirements for hydrophilicity, chemical resistance, and color.

Applications

Respiratory Infections   Self-Sampling   Genetics and Microbiomics   Veterinary Medicine

Performance report for sponge swabs

CT Value for PCR Test of Influenza A Virus					
Temperature	Mantacc Sponge swab			Competitor Sponge swab		
4℃	10^5	10^4	10^3	10^5	10^4	10^3
0h	30	35	39	30	35	42
24h	31	38	39	31	36	43
48h	31	36	40	37	38	44
72h	31	38	40	30	40	45

CT Value for PCR Test of Influenza B Virus					
Temperature	Mantacc Sponge swab			Competitor Sponge swab		
4℃	10^5	10^4	10^3	10^5	10^4	10^3
0h	26	29	34	29	34	37
24h	25	30	35	30	34	39
48h	27	31	34	32	34	40
72h	28	30	36	33	35	40

CT Value for PCR Test of RSV Virus					
Temperature	Mantacc Sponge swab			Competitor Sponge swab		
4℃	10^5	10^4	10^3	10^5	10^4	10^3
0h	19	23	28	22	25	27
24h	20	24	28	22	26	29
48h	20	24	28	22	28	30
72h	21	24	27	24	29	32

Optical Density 260nm

Mantacc Sponge swab   Competitor Sponge swab

Traditional swabs include Rayon, Non-dust swabs and pure cotton swabs, suitable for scenarios where comfort during sampling is not a sensitive issue. Mantacc is committed to providing a comprehensive range of swab types.

Product Features

① It can be used as a general-purpose applicator.

② Diagnostic sample collection.

③ Patient care.

④ Cell collection.

⑤ Environmental testing and pharmaceutical applications.

⑥ Polyester tips do not contain fatty acids or sugars.

Testing Reports

We have biocompatibility reports for related products, including cytotoxicity, oral mucosal irritation, and sensitization reports. Each batch of products can obtain a corresponding sterilization report.

Strict Quality Control

Our swabs undergo advanced EO sterilization technology during the production process, ensuring that they have achieved a sterile state before leaving the factory and can be safely used in sensitive scenarios such as medical and laboratory environments. At the same time, our swab products have passed standard biocompatibility tests, posing no harm to the human body during use, providing you with reliable product choices.

EO Sterilization Technology

EO, short for Ethylene Oxide, is a sterilization method extensively used for medical devices and products. Ethylene Oxide is a highly reactive gas with potent sterilizing abilities, effectively eradicating various microorganisms, including bacteria, viruses, fungi, and spores. Characteristics of EO include broad-spectrum sterilization, non-damage to items, low toxicity, and high efficiency.

93050D

152mm

30mm

6mm
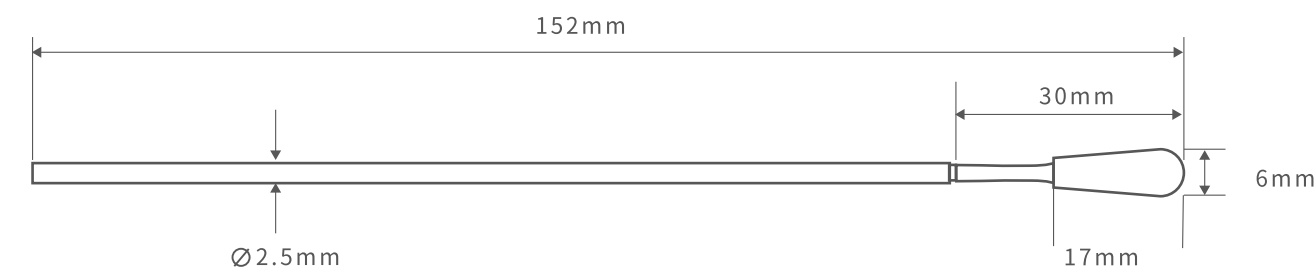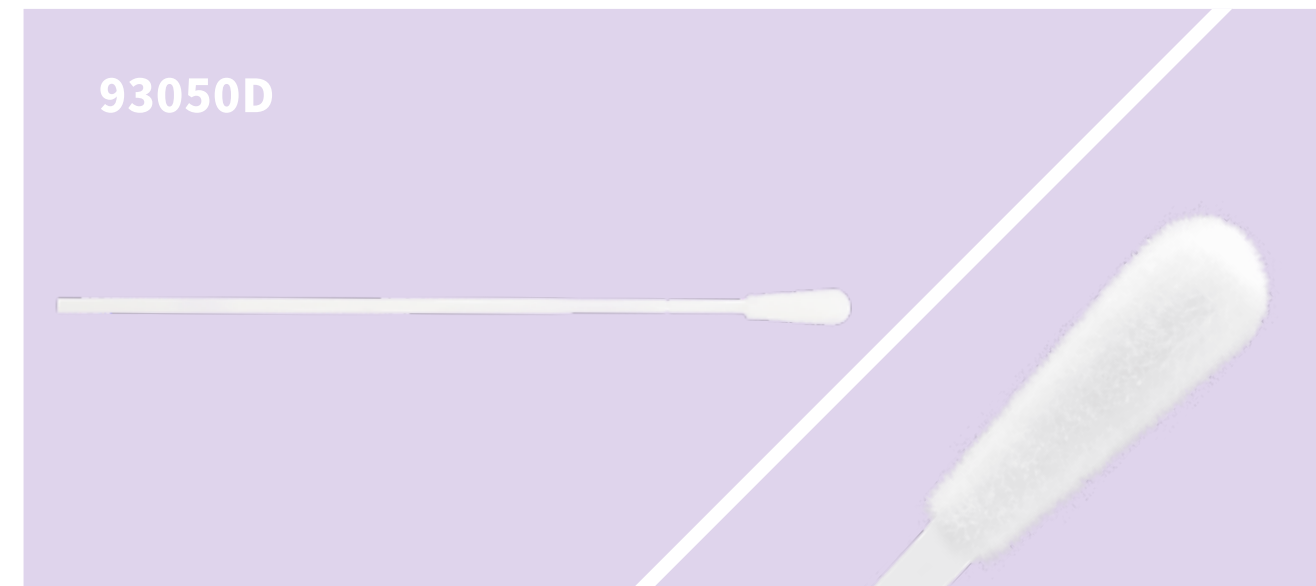
17mm

∅2.5mm

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050A	6mm	17mm	2.5mm	/	70mm	ABS, Nylon Fibre
93050B	6mm	17mm	2.4mm	30mm	100mm	ABS, Nylon Fibre
93050C	6mm	17mm	2.5mm	80mm	152mm	ABS, Nylon Fibre
93050D	6mm	17mm	2.5mm	30mm	152mm	ABS, Nylon Fibre
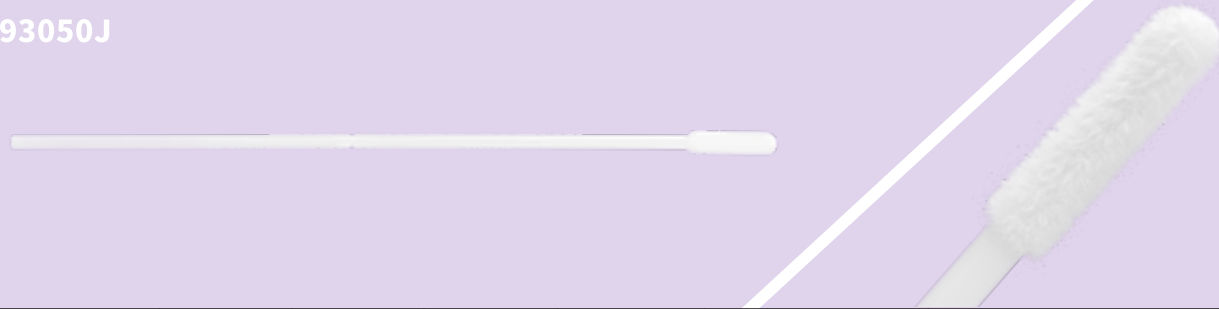
93050J

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050	3mm	16mm	2.5mm	78.92mm	152mm	ABS, Nylon Fibre
93050J	4mm	17mm	2.5mm	76mm	151mm	POM, Nylon Fibre
93050K	4mm	17mm	2.5mm	95mm	151mm	POM, Nylon Fibre

93050F-103

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050F-150	6.5mm	25mm	2.5mm	/	150mm	PP, Sponge
93050F-103	6.5mm	25mm	2.5mm	/	103mm	PP, Sponge
93050F-76	6.5mm	25mm	2.5mm	/	76mm	PP, Sponge

93050E-101

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050E-152	8.5mm	25mm	2.5mm	35mm	152mm	ABS, Sponge
93050E-101	8.5mm	25mm	2.5mm	35mm	101mm	ABS, Sponge
93050E-76	8.5mm	25mm	2.5mm	35mm	76mm	ABS, Sponge
93050G-150	8.5mm	25mm	2.5mm	/	150mm	PP, Sponge
93050G-103	8.5mm	25mm	2.5mm	/	103mm	PP, Sponge
93050G-76	8.5mm	25mm	2.5mm	/	76mm	PP, Sponge

93050L

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050L	4mm	15mm	2.5mm	78mm	153mm	POM, Sponge
93050M	4mm	15mm	2.5mm	96mm	153mm	POM, Sponge

93050H-163

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050H-163	6mm	17mm	3mm	/	163mm	PP, Sponge
93050H-100	6mm	17mm	3mm	/	100mm	PP, Sponge
93050H-76	6mm	17mm	3mm	/	76mm	PP, Sponge

93050P-150

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050P-150	5mm	17mm	2.5mm	/	150mm	PP, Rayon
93050P-100	5mm	17mm	2.5mm	/	100mm	PP, Rayon
93050P-76	5mm	17mm	2.5mm	/	76mm	PP, Rayon

93050I-129

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050I-152	12mm	24mm	5mm	/	152mm	PP, Non-dust Cloth
93050I-129	12mm	24mm	5mm	/	129mm	PP, Non-dust Cloth
93050I-76	12mm	24mm	5mm	/	76mm	PP, Non-dust Cloth

93050Q-163

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050Q-163	7mm	17mm	3mm	/	163mm	PP，Non-dust Cloth
93050Q-100	7mm	17mm	3mm	/	100mm	PP，Non-dust Cloth
93050Q-76	7mm	17mm	3mm	/	76mm	PP，Non-dust Cloth

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050R	12mm	24mm	3mm	/	129mm	PP, Sponge

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050S	19.5mm	27mm	6.5mm	/	125mm	PP, Sponge
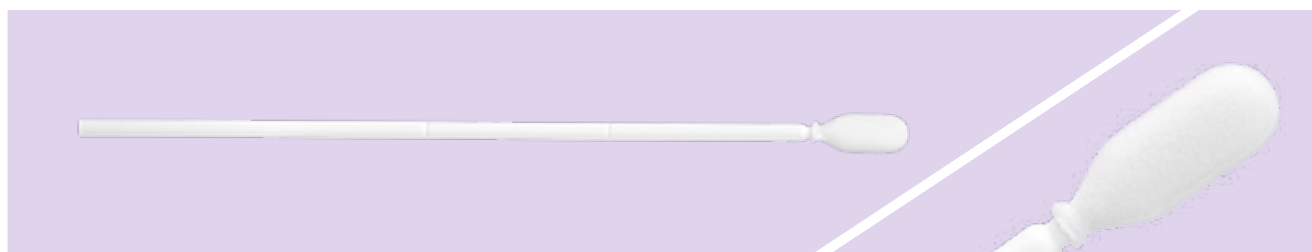
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050HZ-163	6mm	17mm	3mm	55/88mm	163mm	PP, Sponge
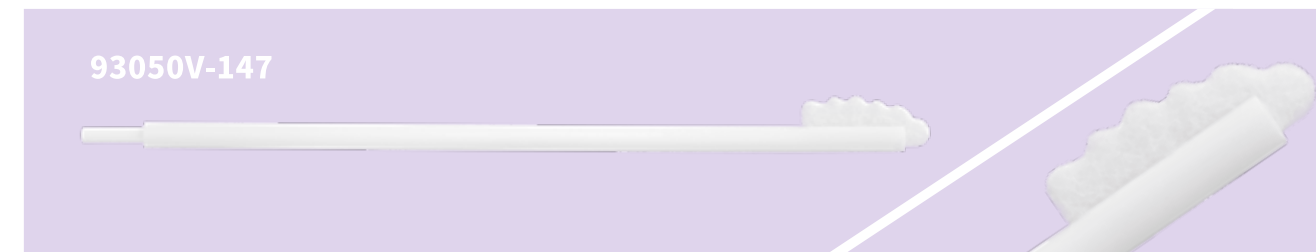
93050V-147

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050V-147	8mm	20mm	4.1mm	Manual Push-off	147mm	PP, Non-woven Cloth
93050V-100	8mm	20mm	4.1mm	Manual Push-off	100mm	PP, Non-woven Cloth
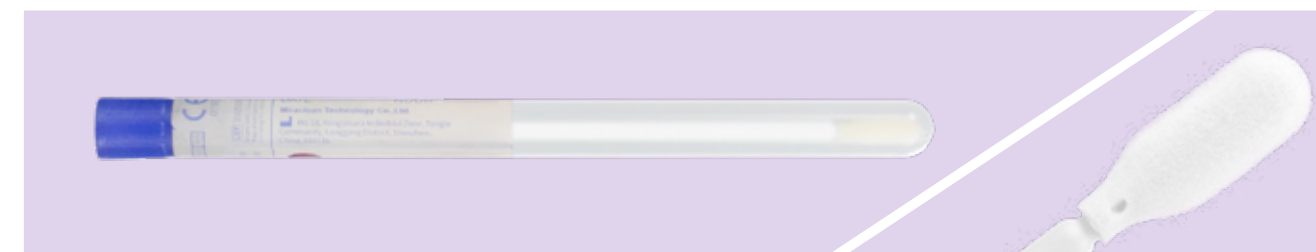
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050H-163 Blue Cap	6mm	17mm	3mm	55/88mm	163mm	PP, Sponge

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050D Red-black Tube	6mm	17mm	2.5mm	30mm	152mm	ABS, Nylon Fibre

96000A

155mm

⌀1.1mm

17mm

6mm
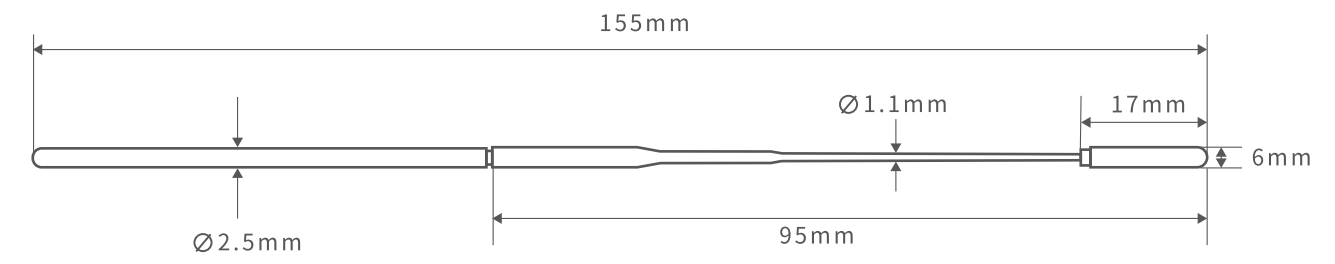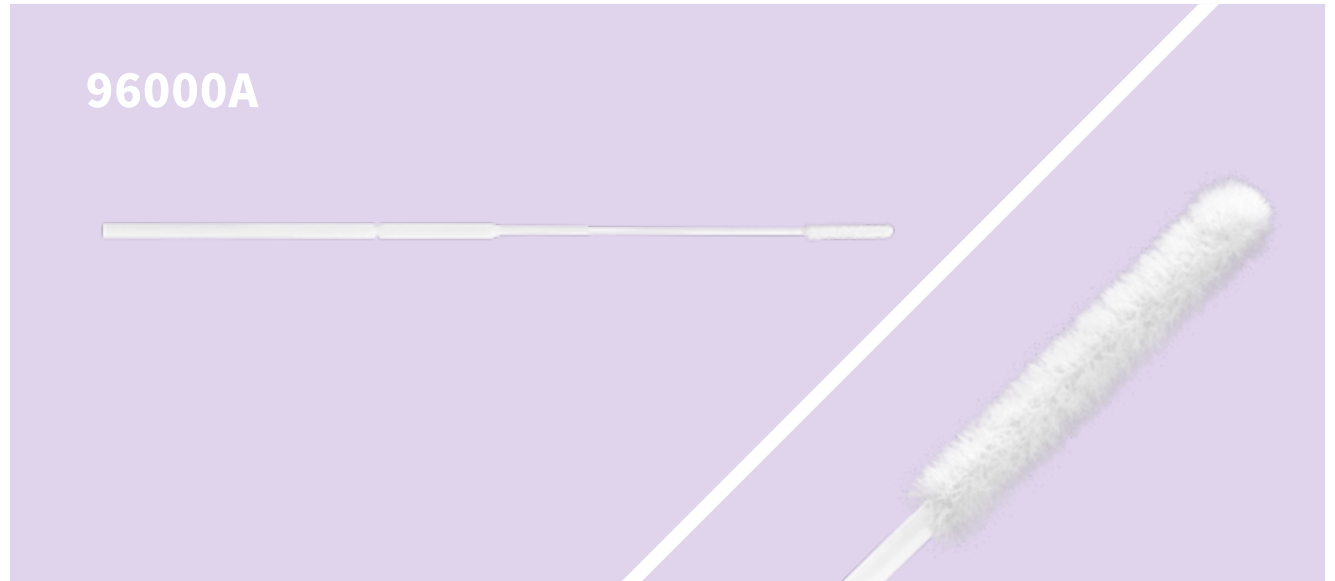
⌀2.5mm

95mm

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
96000	2mm	17mm	2.5mm	83.5mm	151mm	ABS, Nylon Fibre
96000A	2.5mm	17mm	2.5mm	95mm	155mm	ABS, Nylon Fibre
96000B	2.5mm	17mm	2.5mm	80mm	155mm	ABS, Nylon Fibre
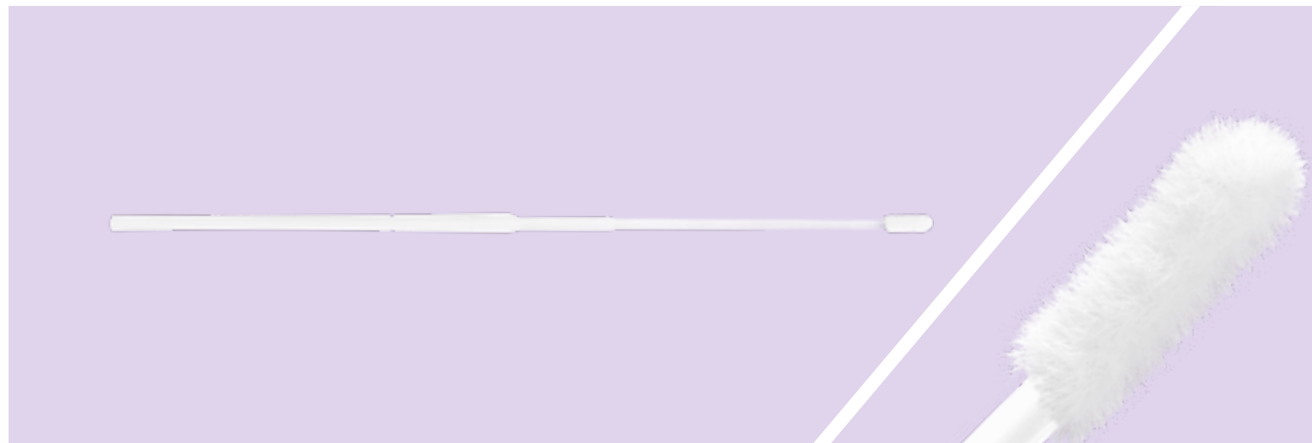
96000G

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
96000C	2.5mm	8mm	2.5mm	95mm	155mm	ABS, Nylon Fibre

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
96000E	3.6mm	11mm	2.8mm	/	68mm	PP, Sponge
96000F	3.5mm	11mm	2.8mm	22mm	150mm	PP, Sponge
96000G	4mm	15mm	2.5mm	45mm	75mm	POM, Sponge
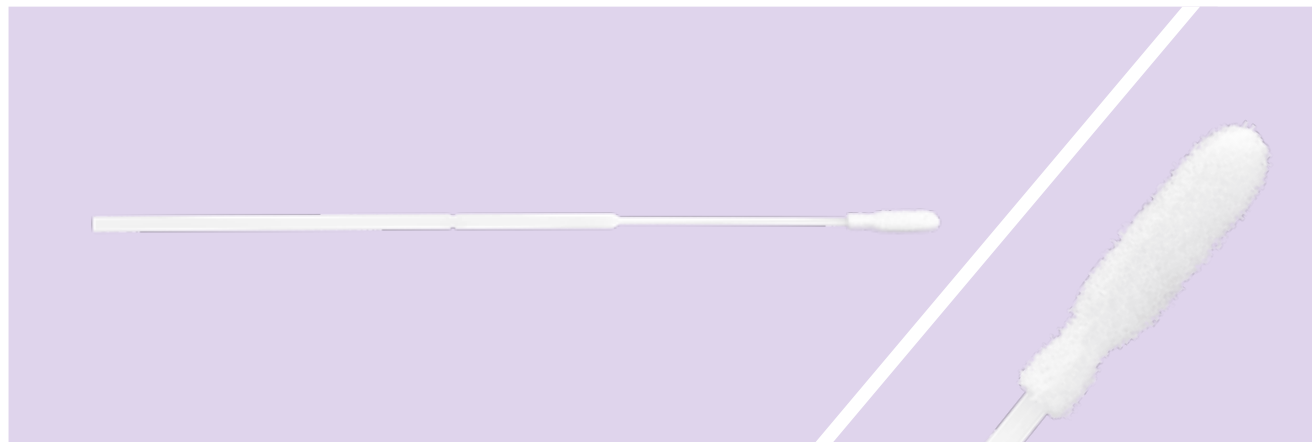
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
96000D	3mm	14.5mm	2.5mm	78mm	153mm	POM, Sponge

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
96000J	3mm	16mm	2.5mm	50mm	148mm	ABS, Nylon Fibre
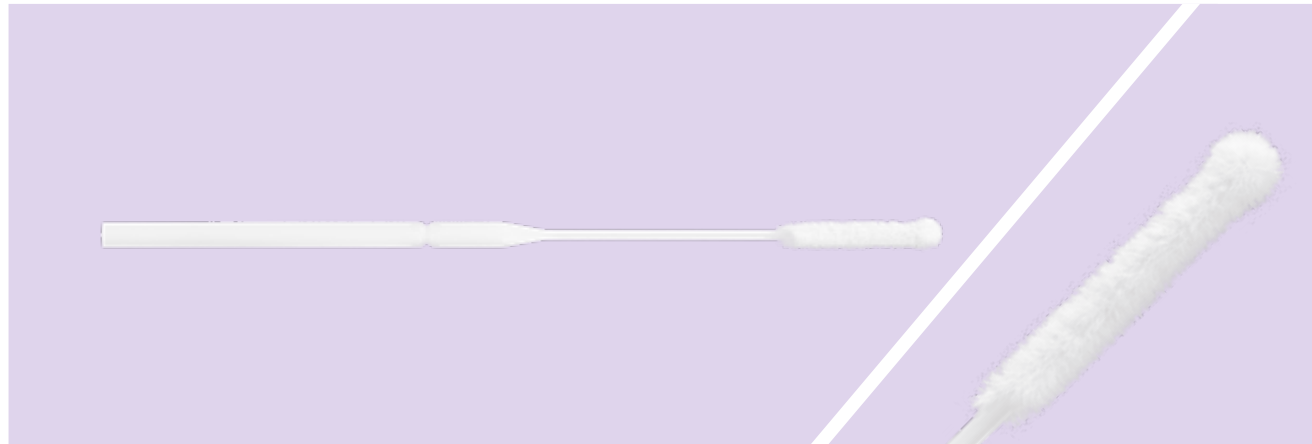
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
96000K	3mm	15mm	2.5mm	50mm	91mm	ABS, Nylon Fibre
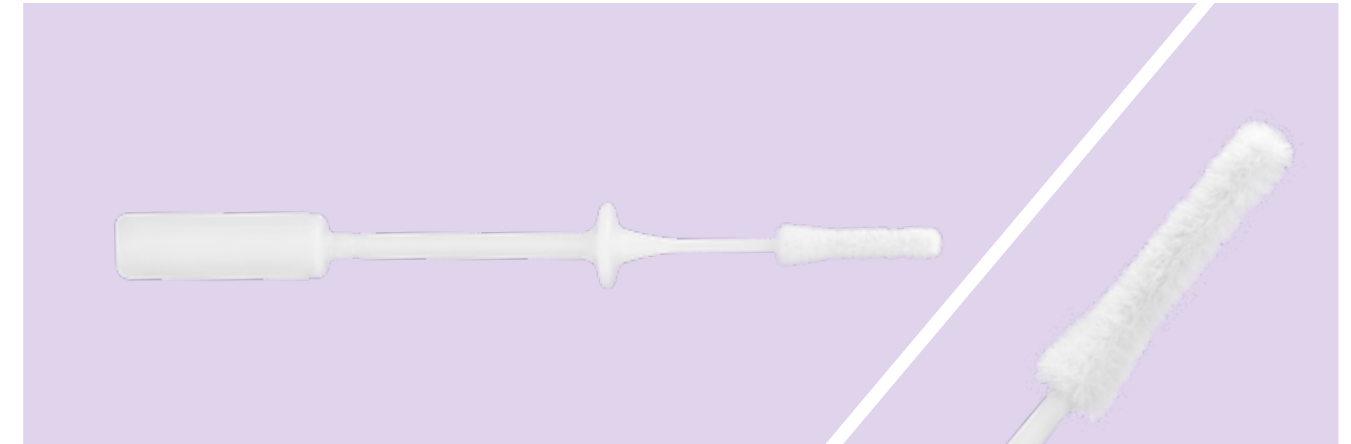
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96000CA	3mm	15mm	6.2mm	54mm	87mm	ABS, Nylon Fibre
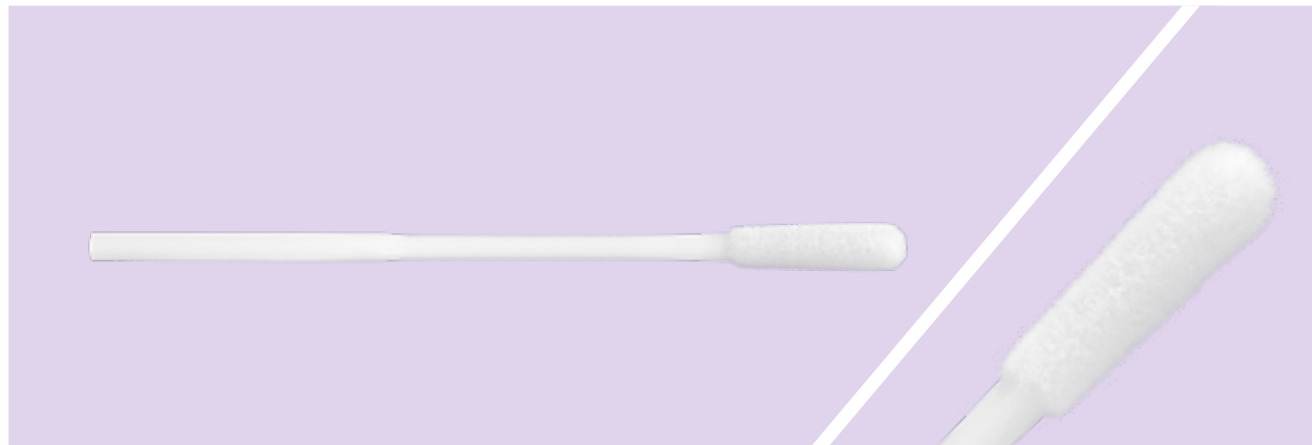
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
96000L	5mm	15mm	2.4mm	/	77mm	ABS, Nylon Fibre

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
96000A +soft tube	2.5mm	17mm	2.5mm	95mm	155mm	ABS, Nylon Fibre

152mm

3mm

27mm

12mm

8mm

Ø 25mm
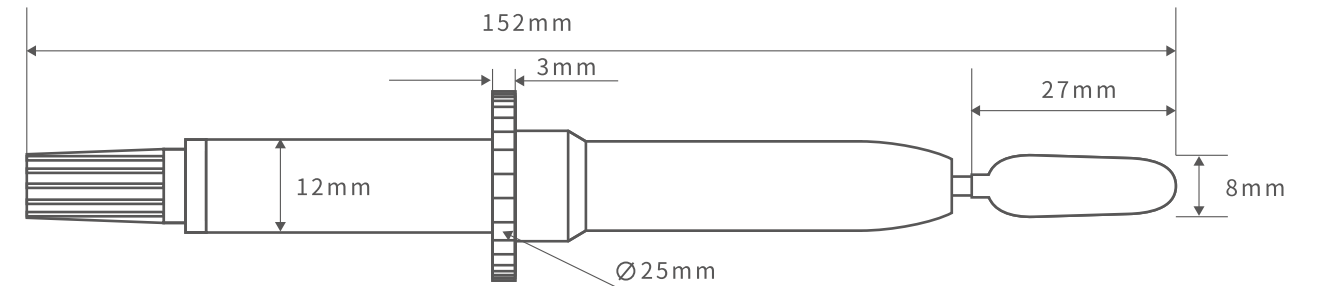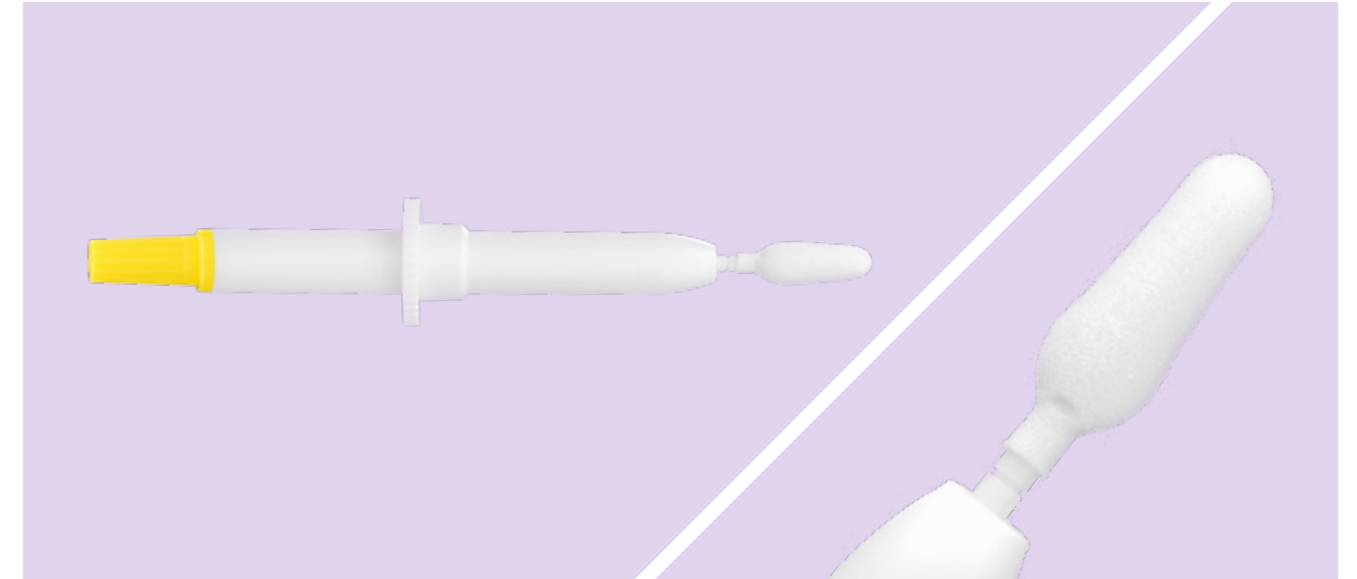
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000LV	8mm	27mm	12mm	30mm	152mm	ABS, PE Sleeve, 100 PPI Foam
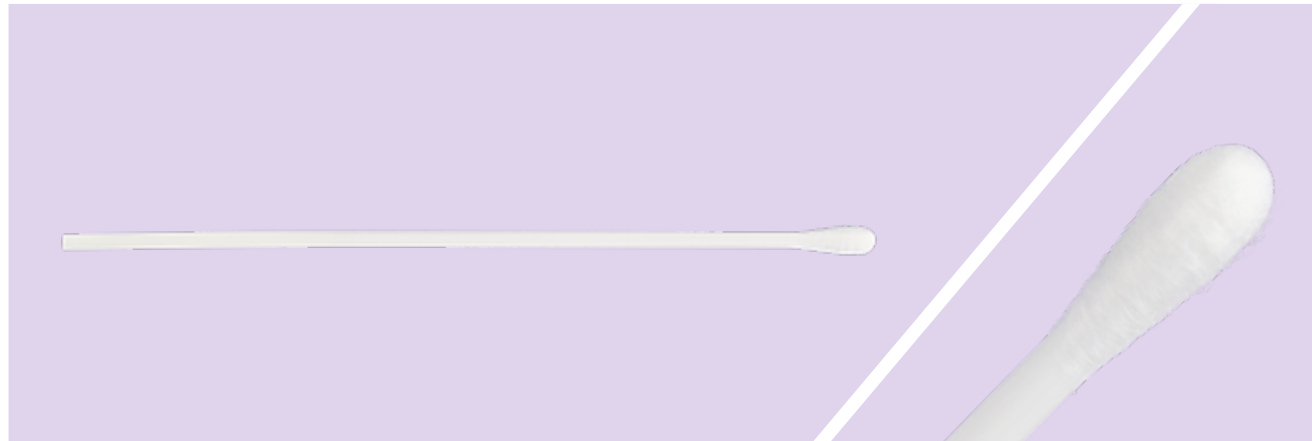
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000P	5mm	17mm	2.5mm	/	150mm	PP, Rayon
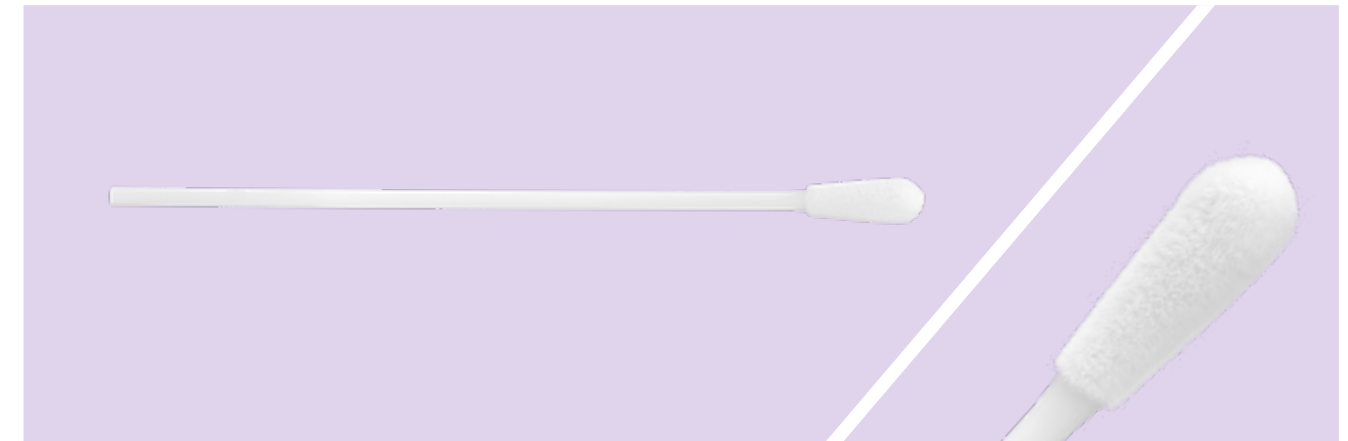
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000A	8.5mm	22mm	3.5mm	/	169mm	ABS, Nylon Fibre
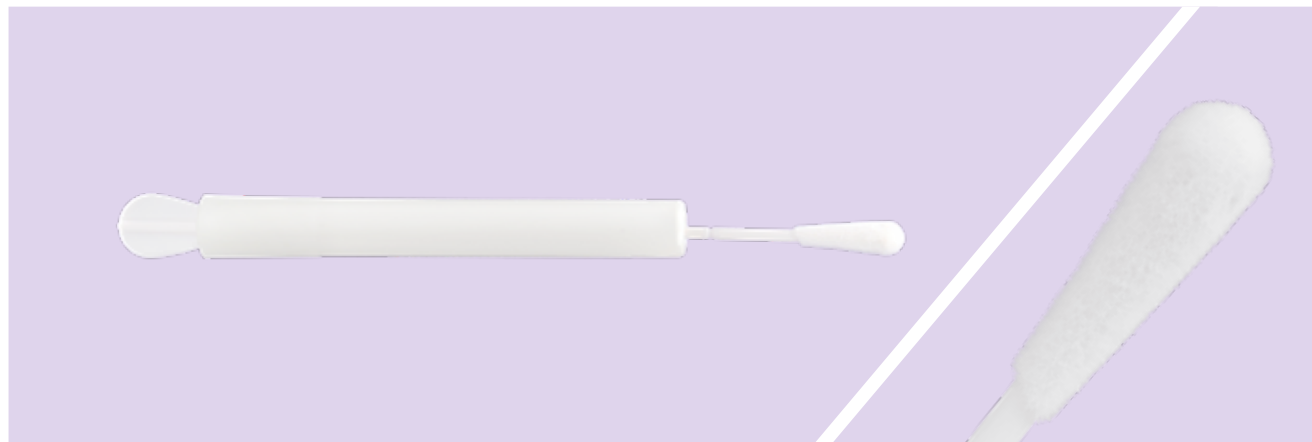
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000L	7mm	25mm	3mm	45mm	190mm	ABS, Nylon Fibre
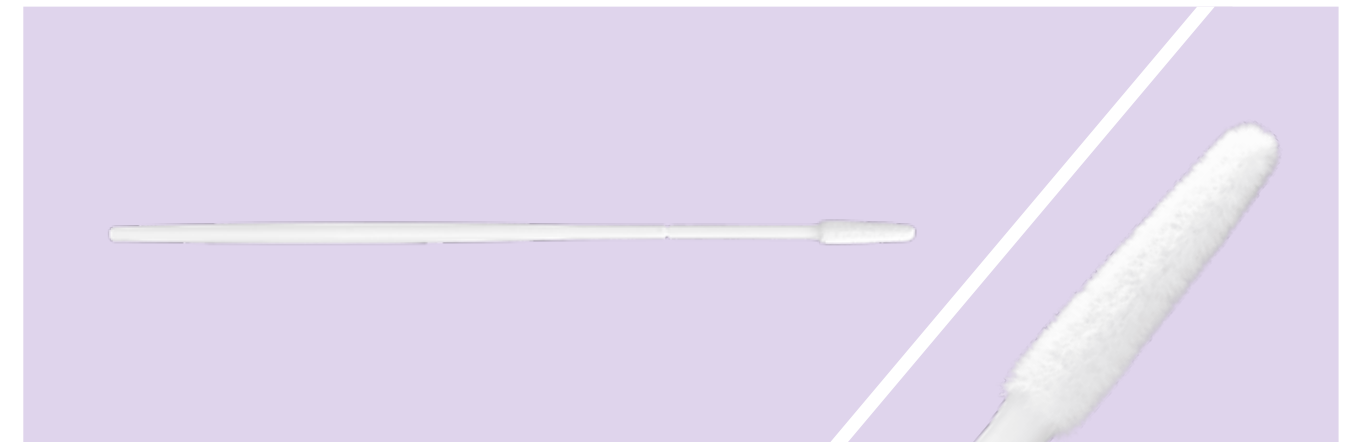
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000M	4.35mm	20.25mm	2.8mm	49mm	170mm	ABS, Nylon Fibre

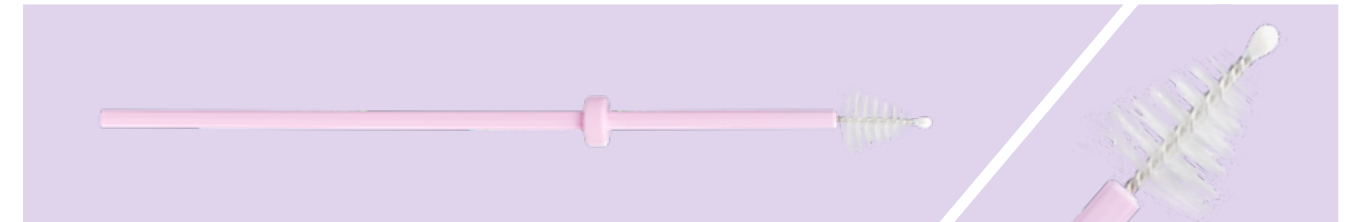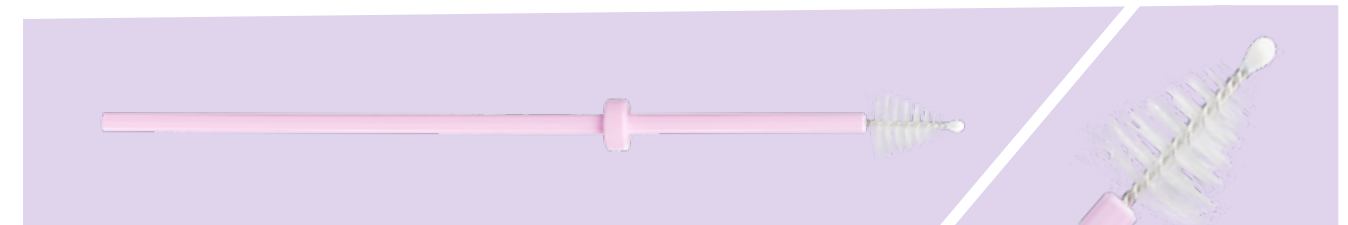| Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000B-170	15mm	19mm	3.2mm	50mm	170mm white	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin
95000C-170	15mm	19mm	3.2mm	50mm	170mm pink	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin

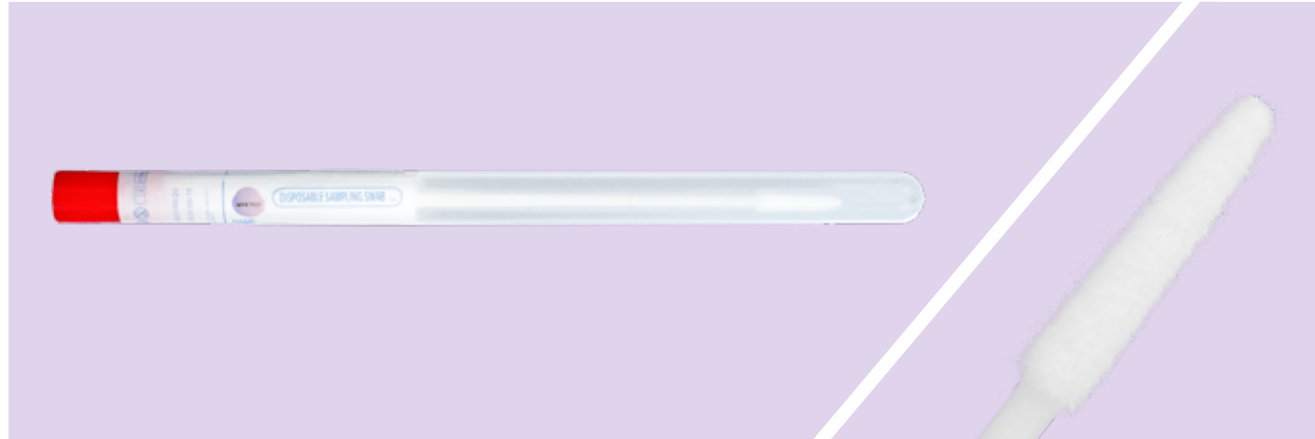| Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000B-203	14mm	22mm	3.2mm	53mm	203mm white	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin
95000C-203	14mm	22mm	3.2mm	53mm	203mm pink	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000B-173	14mm	22mm	3.2mm	53mm	173mm white	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin
95000C-173	14mm	22mm	3.2mm	53mm	173mm pink	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin

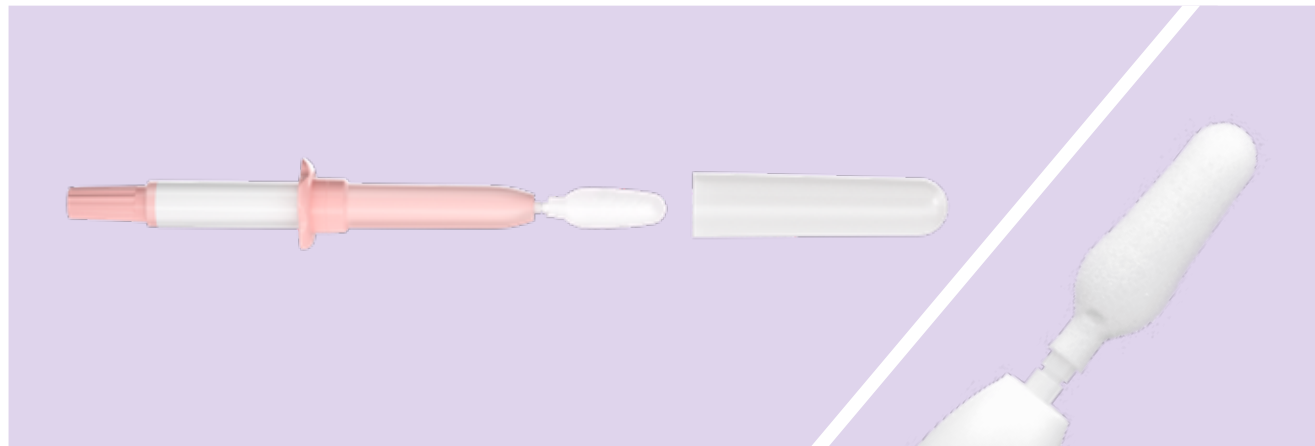| Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000D-187	15mm	19mm	3.6mm	/	187mm white	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin
95000E-187	15mm	19mm	3.6mm	/	187mm pink	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000B-200	15mm	19mm	3.2mm	50mm	200mm white	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin
95000C-200	15mm	19mm	3.2mm	50mm	200mm pink	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin

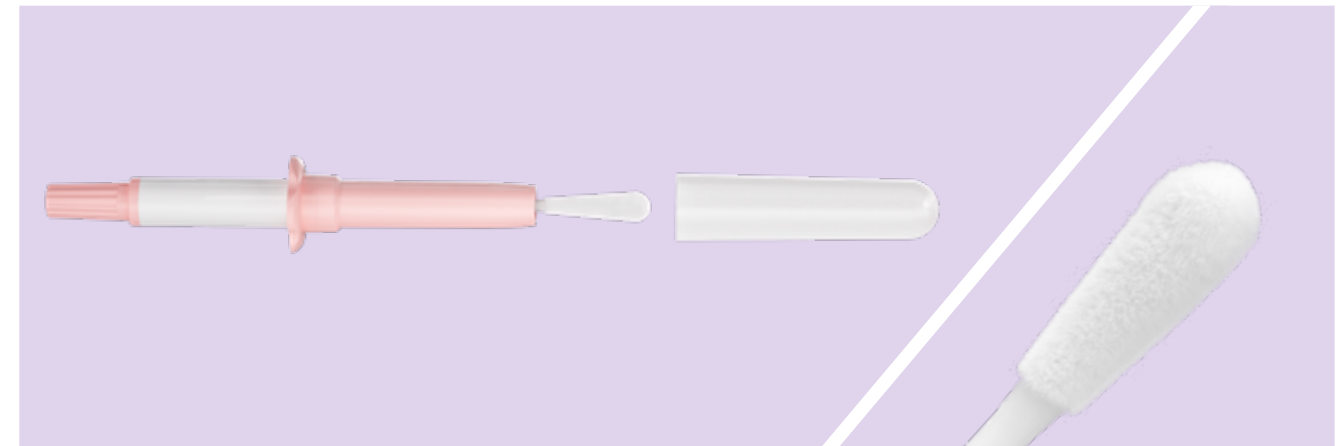| Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000D-190	14mm	22mm	3.6mm	/	190mm white	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin
95000E-190	14mm	22mm	3.6mm	/	190mm pink	304 Stainless Steel Wire, Nylon Wire, Epoxy Resin

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000M+soft tube	4.35mm	20.25mm	2.8mm	49mm	170mm	ABS, Nylon Fibre

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050P+soft tube	5mm	17mm	2.5mm	/	150mm	PP, Rayon

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000NV	9mm	26.5mm	12mm	28mm	155mm	ABS, Sponge

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
95000MV	8mm	22.5mm	12mm	28mm	155mm	ABS, Nylon Fibre

93050W

125mm

⌀2.5mm

6mm

90mm
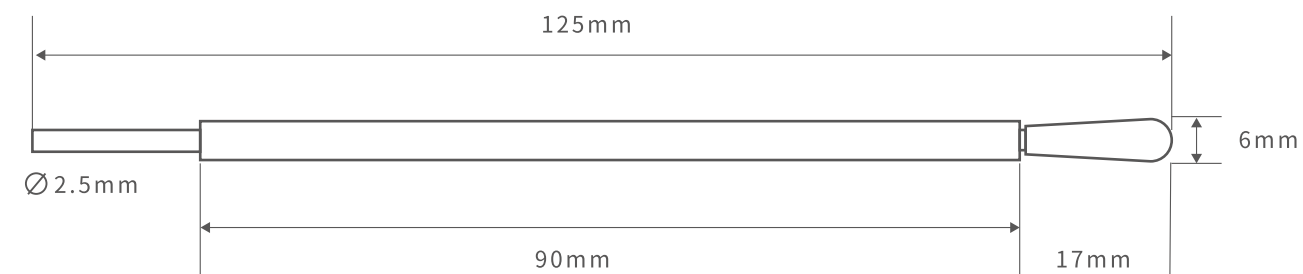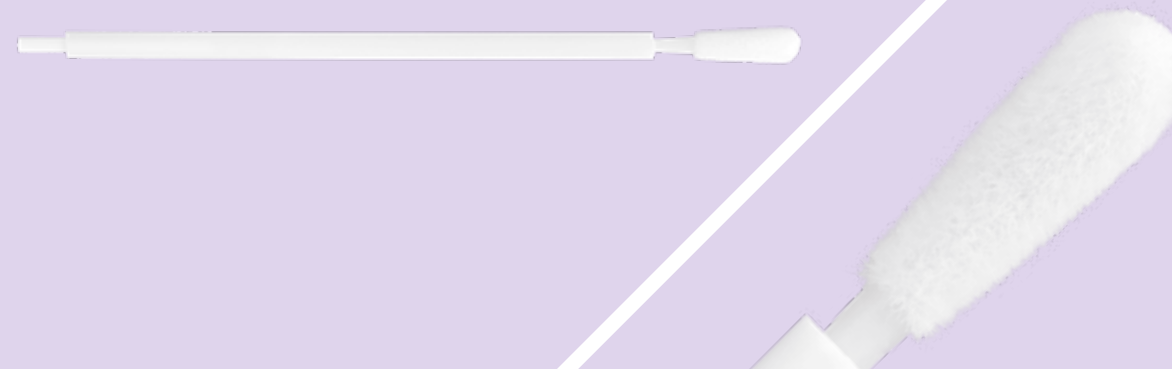
17mm

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93050W	6mm	17mm	4.1mm	Manual Push-off	125mm	ABS, Nylon Fibre
93050X	6mm	17mm	4.1mm	Manual Push-off	100mm	ABS, Nylon Fibre

| 84mm |
| 21mm |
| Ø12.5mm |
| Ø18mm |
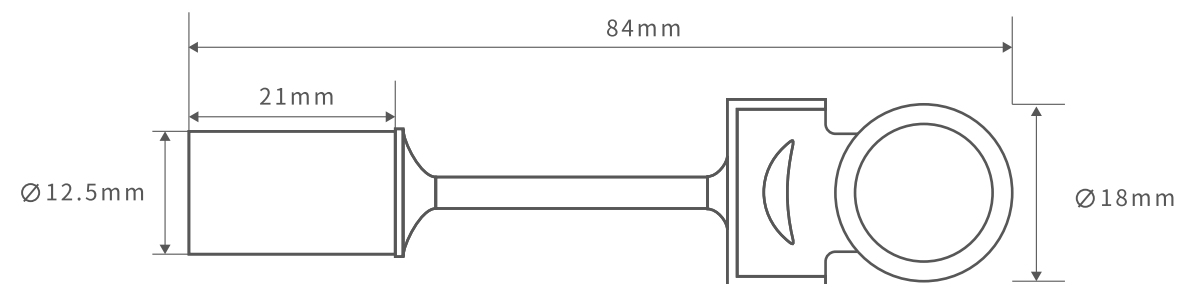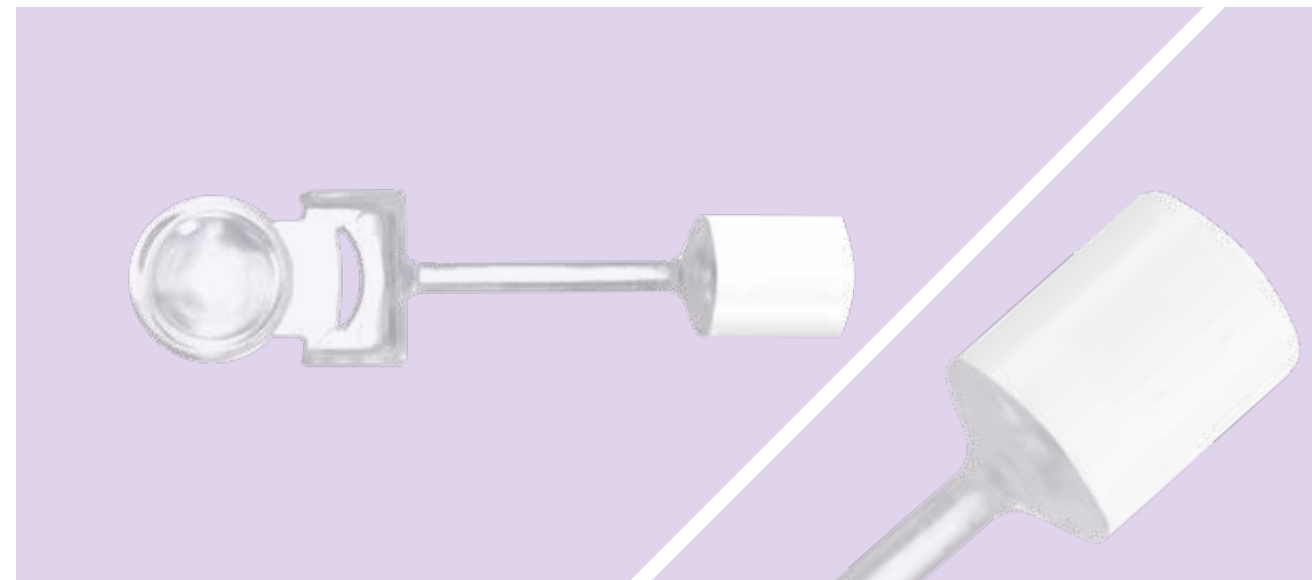
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93051	12.5mm	21mm	/	/	84mm	PS, PVA Sponge
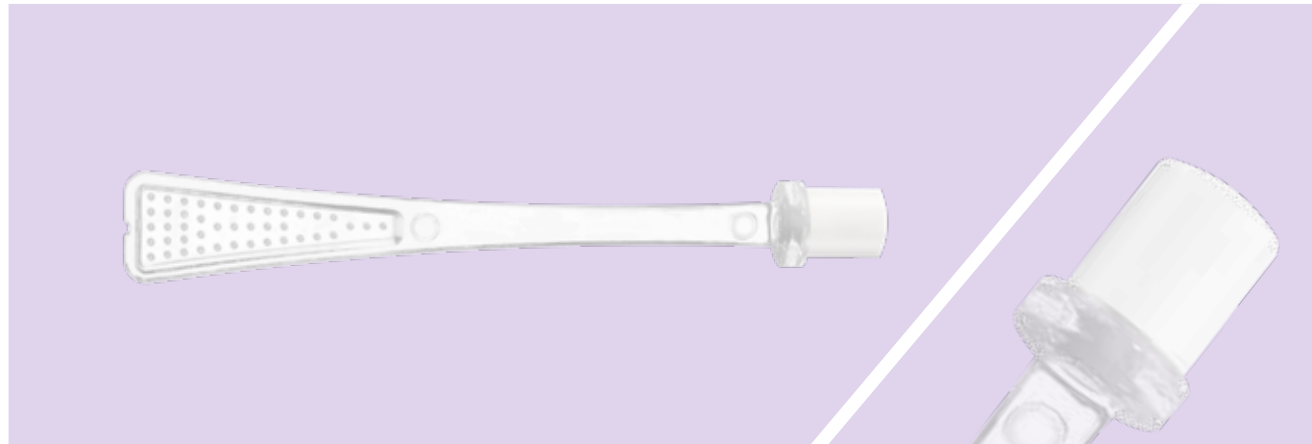
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93052	8.5mm	13mm	/	/	100mm	PS, PVA Sponge
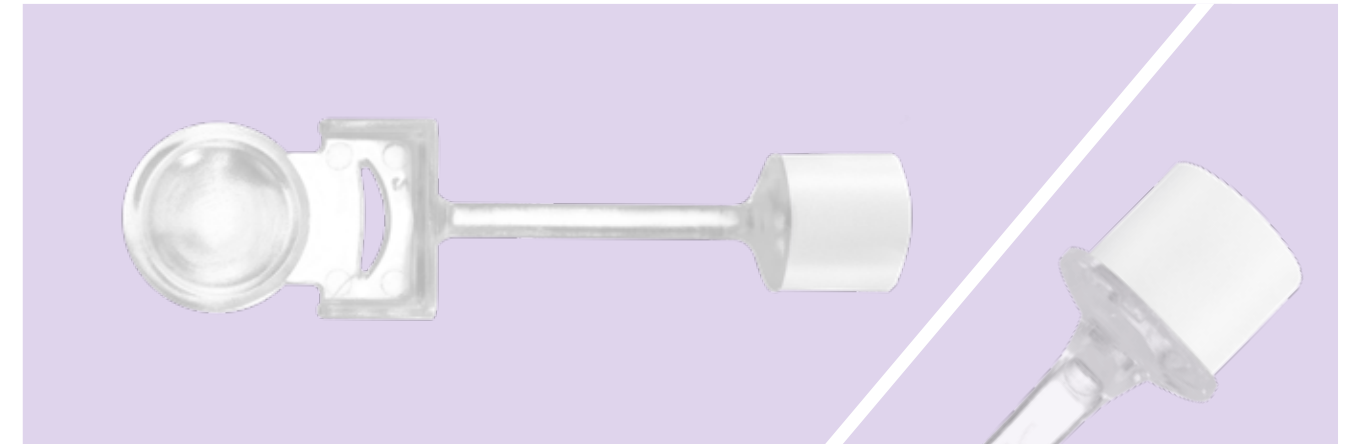
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93053	12.5mm	10mm	/	/	73mm	PS, PVA Sponge
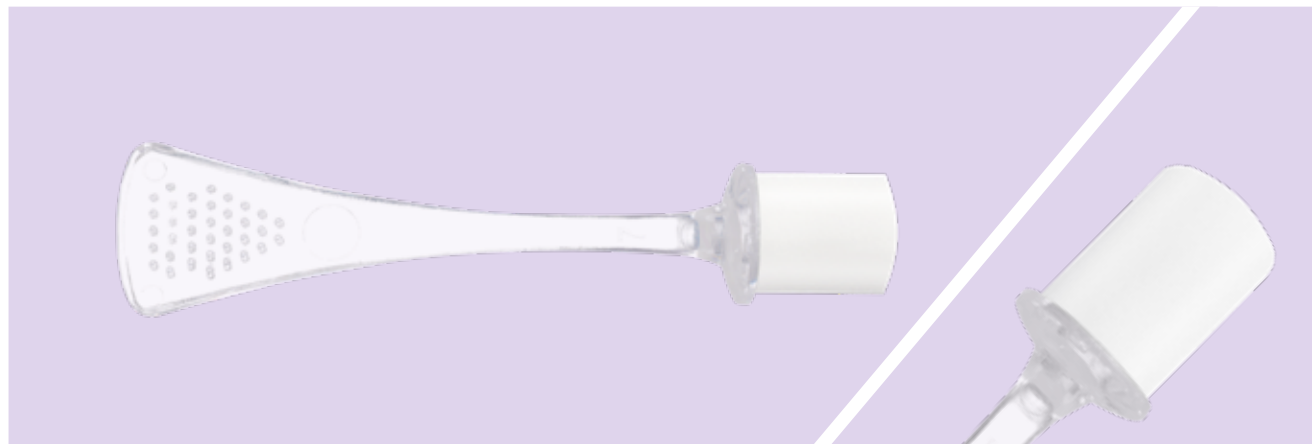
Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93054	14mm	21mm	/	/	95mm	PS, PVA Sponge

Model	Tip Width	Tip Length	Handle Diameter	Breakpoint	Total Length	Material
93055	13.5mm	10mm	/	/	85mm	PS, PVA Sponge