



Qingdao Innova Bio-Meditech Co., Ltd.

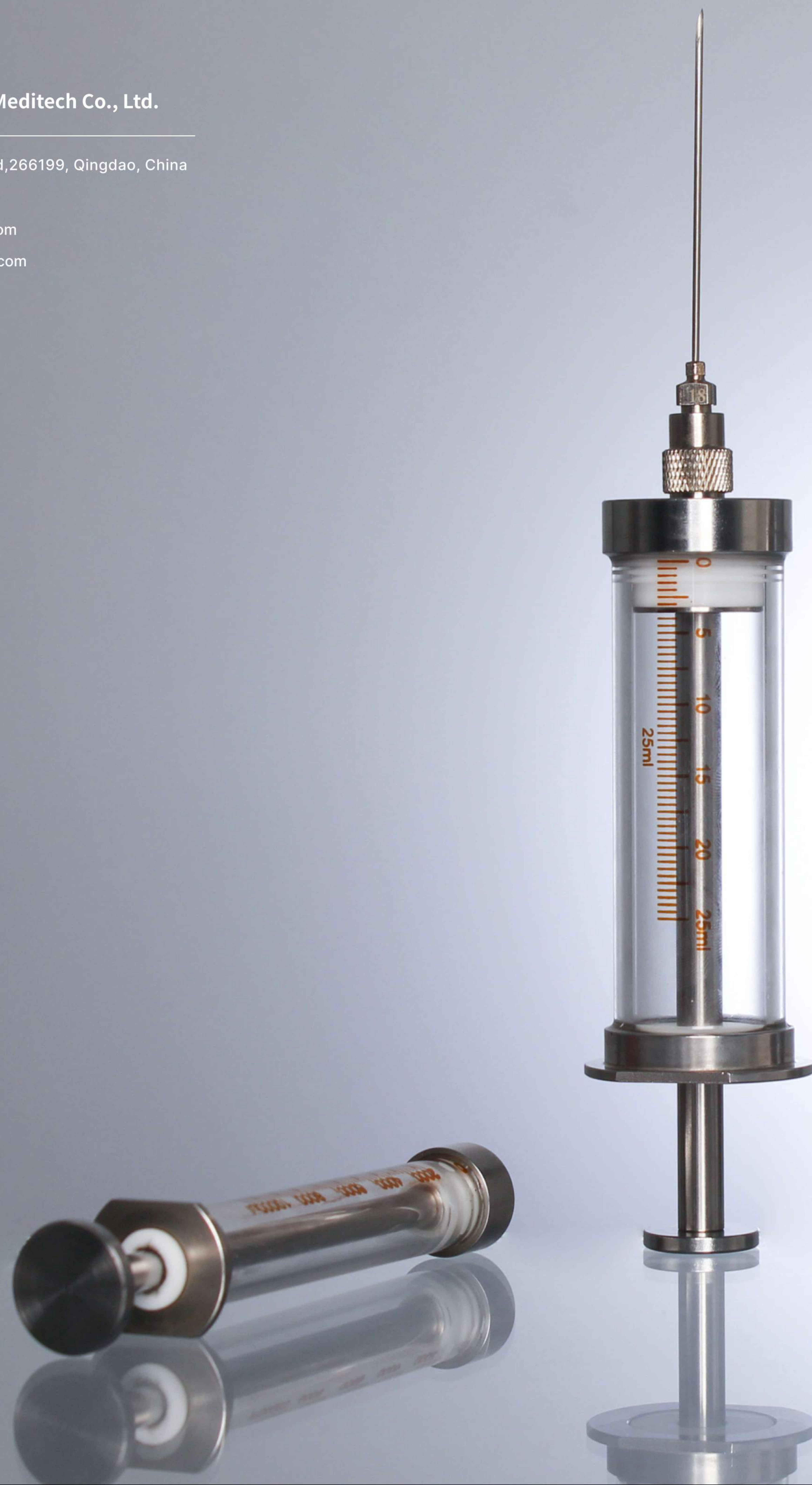
Add : No. 176 Jufeng Road, 266199, Qingdao, China

Tel : +86 532 8789 0634

Email : [info@innobiomed.com](mailto:info@innobiomed.com)

Web : [www.innovabiomed.com](http://www.innovabiomed.com)

# General Bottle Cap Accessory





# About Us

**Innova Bio-Meditech** is one of the professional solution provider of laboratory and medical devices. Firmly committed to our mission of “sharing innovative bio-meditech solutions with the world”, we are dedicated to innovation in the fields of Biology Project, Life Science, Pharmacy Industry and Medical Treatment.

**Innova Bio-Meditech** possesses a sound distribution and service network with business partners in North and Latin America, Europe, Africa and Asia-Pacific etc. We have built up a well established R&D, manufacture network with 3 centers in Qingdao, Shanghai and Suzhou. Inspired by the needs of our customers, we adopt advanced technologies and transform them into accessible innovation. This means constant effort and research, in order to more fully understand the developments of the market, INNOVA produce constantly upgraded product ranges by adding new products year after year.

*The passion for science*

# Contents

## Cap

<i>PBT Cap(Red)</i>	1
<i>PP Cap(Blue/Black)</i>	2
<i>Teflon cap</i>	3
<i>Breathable cap</i>	3
<i>GL45 Perforated valve cap</i>	4
<i>Feed bottle adaptor</i>	5
<i>Feed bottle electrode sampling port</i>	5
<i>Solvent cap</i>	6
<i>Double-layer cap</i>	6
<i>Muti-hole screw cap</i>	7

---

## Gasket

<i>Double-sided TBAF rubber gasket</i>	8
--	---



# Contents

Teflon gasket	8
Gasoline resistant gasket	9
<hr/>	
Accessory	
Anaerobic plug	10
Silicone insert	10
GL45 butyl rubber plug	11
Pagoda head for GL14 cap	12
Electrode sleeve	12
Autosampler syringe	13
Reagent vial Trolley	14

# Cap

## PBT Cap(Red)

### Features

- PBT plastic refers to a class of plastics consisting of polybutylene terephthalate cool as the main body
- PBT is one of the toughest engineering thermoplastics, it is semi-crystalline material, has very good chemical stability, mechanical strength, electrical insulation properties and thermal stability
- Temperature resistance of 180 ° C, the disadvantage is poor corrosion resistance



### Technical Parameter

Order Code	Type	Specification/Volume	D×H(mm)	Color
2.1.1	Solid Cap	GL14	19.5×17	Red
2.1.2	Solid cap	GL25	32×22.5	Red
2.1.3	Solid cap	GL32	41×26	Red
2.1.4	Solid cap	GL45	53.5×28	Red
2.1.5	Solid Cap	GL100	110×28	Red
2.2.1	Headspace Cap	GL14	19.5×17	Red
2.2.2	Headspace Cap	GL25	32×22.5	Red
2.2.3	Headspace Cap	GL32	41×26	Red
2.2.4	Headspace Cap	GL45	53.5×28	Red



PP Cap(Blue/Black)

Features

- PP material is the modified polypropylene, polypropylene has high crystallinity, structural regularity, strong corrosion resistance
- Thus has excellent mechanical properties
- The mechanical properties of polypropylene is definitely higher than polyethylene, but still belongs to the low variety in plastic materials, temperature resistance 140°C



Technical Parameter

Order Code	Type	GL	Hole Diameter	D×H(mm)	Color
2.3.1	Solid Cap	40	Unopened Hole	50×19	Blue
2.3.2	Solid cap	45	Unopened hole	53.5×28	Blue
2.3.3	Headspace Cap	45	15mm	53.5×28	Blue
2.3.4	Headspace Cap	45	24mm	53.5×28	Blue
2.3.5	Headspace Cap	45	30mm	53.5×28	Blue
2.3.6	Headspace Cap	45	34mm	53.5×28	Blue
2.3.7	Without Anti-Theft Ring	50	-	56×16	Black
2.3.8	with anti-theft ring	50	-	62×26	Black
2.3.9	with anti-theft ring	50	-	62×26	Blue
2.3.10	-	80	-	56×16	Blue

Teflon cap

Features

- Temperature resistance: High and low temperature resistance (-192°C-260°C)
- Resistance to media a corrosion resistance (strong acid, strong alkali, aqua regia, etc.)
- Other properties: weather resistance, high insulation, high lubrication, non-adhesion, non-toxicity, etc



Technical Parameter

Order Code	Type	GL	Hole Diameter	D×H(mm)	Color
2.4.1	Headspace	45	35mm	52×27	White
2.4.2	Card slot	45	Unopened hole	52×27	White
2.4.3	without card slot	45	Unopened hole	52×27	White

Breathable cap

Features

- Choose the U.S. imported KIMBLE reagent bottle cap as the basis, universal all GL45 bottle mouth, cover above the design of the semicircular outline to facilitate ventilation, to avoid the blockage of the gas volume, the impact of scientific rigorous multiple tests in line with the use of cell culture breathable
- Ingenious design inside the cover to facilitate the internal PTFE breathable membrane cell culture internal fit using custom PTFE sheet, fit without leakage of internal gasket selection of special silicone pads, to prevent the fall of the use of more worry



Technical Parameter

Order Code	Type	Color
2.5.1	Gasket	PTFE/White
2.5.2	Breathable cap	PP/Bule



GL45 Perforated valve cap

Features

- The main material is PTFE, the valve material is PCTFE, and the tube is inserted under the cover
- The sealing effect is still stable and reliable after 8,000-9,000 times of testing
- PBT can be sterilised at high temperature and high pressure, corrosion-resistant, non-standard support for custom-made



Technical Parameter

Order Code	Specification/Volume
2.6.1	8/1Tetrafluorotube 2 Holes
2.6.2	8/1Tetrafluorotube 3 holes
2.6.3	3*6Silicone tube 2 holes
2.6.4	3*6Silicone tube 3 holes
2.6.5	5*8Silicone Tube 2 Holes
2.6.6	5*8Silicone tube 3 holes
2.6.7	4/1Tetrafluorotube 2 Holes
2.6.8	4/1Tetrafluorotube 3 holes

Accessory

4.18.4	43*30*2 Gasket
--------	----------------

Feed bottle adaptor

Features

- Produced using high-quality imported plastic PP tetrafluoro, upgraded version of the cap for the resin, the international general GL45 bottle mouth, cap can be autoclaved at 180°C, there is no deformation, discoloration.



Technical Parameter

Order Code	Specification/Volume	Pipe Size
2.7.1	2 Holes 3*5	Inner Diameter 3mm Outer Diameter 5mm
2.7.2	3 holes 3*5	Inner Diameter 3mm Outer Diameter 5mm
2.7.3	2 holes 5*8	Inner Diameter 5mm Outer Diameter 8mm

Accessory

4.18.4	43*30*2 Gasket
--------	----------------

Feed bottle electrode sampling port

Features

- 316L stainless steel
- Machined and moulded in one piece
- Precise size



Technical Parameter

Order Code	Specification/Volume
2.8.1	Two-Hole Small
2.8.2	Two-hole medium
2.8.3	Single electrode interface



Solvent cap

Features

- Temperature resistance - high and low temperature resistance (-192°C-260°C)
- Medium resistance - corrosion resistance (strong acid, strong alkali, aqua regia, etc.)
- Other properties - weather resistance, high insulation, high lubrication, non-adhesion, non-toxicity, etc



Technical Parameter

Order Code	Specification/Volume	Color	Hole Diameter	D×H(mm)
2.9.1	GL38	White	One Hole 4mm, The Other Two Holes 3.2mm	41×39
2.9.2	GL45	Blue	One hole 4mm, the other two holes 3.2mm	52×34

Double-layer cap

Features

- Double-layer cap1 is made of double PP material with high quality double-sided PTFE butyl gaskets inside the cap which can be used for needle sampling and ensure air isolation, after sampling, the red cap on top is screwed tightly and sealed to avoid leakage
- Improved 6-hole design allows multiple needle sampling
- Double-layer cover 2 choose double nylon material cover, higher strength, internal with high-quality double-sided PTFE butyl gasket can tie the needle sampling, and to ensure that the isolation of air, after sampling the upper red cap screwed to seal to avoid leakage improvement of the design of 4 holes, can be many times to tie the needle sampling
- The new double sealing cap will be multi-layer cap and multi-layer sealing technology organic combination, to solve the existing reagent packaging bottles with caps, there is a single puncture sampling sealing failure is prone to leakage or volatilisation of the problem of accidents. Compared with the existing technology, the



- new double-layer cap has the characteristics of good sealing and high reliability, especially suitable for reagent, hazardous chemicals, biological products, pharmaceuticals and other packaging bottles, and can meet the sealing requirements in the process of puncture sampling, as well as after multiple puncture sampling

Technical Parameter

Order Code	Type
2.10.1	Double-Layer Cap 1
2.10.2	Double-layer cap 2
2.10.3	Double seal cap



Multi-hole screw cap

Features

- The new multi-hole screw cap is designed on the basis of GL45 bottle mouth, the inner core, ferrule and outer cap are all made of imported tetrafluoro new material, the whole set of one-piece moulding is beautiful in appearance and stable in sealing, and the whole tetrafluoro material is suitable for the use in the highly corrosive, acidic and alkaline environments

Technical Parameter

Order Code	Specification/Volume
2.11.1	1/8 One-Piece Two-Hole
2.11.2	1/8 one-piece three-hole
2.11.3	1/4 one-piece two-hole
2.11.4	1/4 one-piece three-hole

Accessory

4.18.1	1/8Ferrule Fitting
4.18.2	1/4Ferrule Fitting
4.18.3	Solid Ferrule Fitting
4.18.4	43*30*2 Gasket



# Gasket

## Double-sided TBAF rubber gasket

### Features

- Intermediate resin double-sided PTFE composite, suitable for a variety of corrosion-resistant environment packaging, gaskets fine workmanship
- The intermediate resin is airtight, corrosion-resistant, acid and alkali resistant, and has been tested rigorously



### Technical Parameter

Order Code	H(mm)	D(mm)
4.1.1	3	41

## Teflon gasket

### Features

- Using PTFE and high-quality silicone rubber or ultra-pure silicone as raw materials to ensure that the gaskets are non-toxic
- Adopting non-glue bonding process to combine PTFE and silicone rubber together, maintaining the excellent characteristics of each material



### Technical Parameter

Order Code	D(mm)
4.2.1	13mm
4.2.2	20mm
4.2.3	22mm
4.2.4	23mm
4.2.5	24mm
4.2.6	27mm
4.2.7	30mm
4.2.8	43mm

## Gasoline resistant gasket



### Technical Parameter

Order Code	H(mm)	D(mm)
4.3.1	3	41



# Accessory

## Anaerobic plug

### Features

- Imported butyl rubber raw material production, automated production of plugs with high precision, plugs soft and hard suitable for anaerobic reaction anaerobic plug size plug diameter 13.5mm, suitable for standard 20mm aluminium alloy cap usage



### Technical Parameter

Order Code	Product Name
4.6.1	Anaerobic Plug
4.6.2	Aluminium Alloy Cap

## Silicone insert

### Features

- Imported gas phase silicone, high elasticity, resistance to needle sticking, stable sealing, support for non-standard custom-made



### Technical Parameter

Order Code	Specification/Volume	Material/Color
4.7.1	Solid	Silica Gel/Blue
4.7.2	Solid	Silica Gel/Blue
4.7.3	Hollow	Silica Gel/Blue

4.7.4	Singe-Hole	Silica Gel/Blue
4.7.5	Two-hole	Silica Gel/Blue
4.7.6	Three-hole	Silica Gel/Blue
4.7.7	Four-hole	Silica Gel/Blue

## GL45 butyl rubber plug

### Features

- Butyl rubber, temperature resistant up to
- 121°C
- Complies with USP<381>/EP3.2.9 Typel
- specification, can be pierced multiple times
- 8 round puncture holes with numbers on the surface to prevent single puncture from affecting the airtightness
- Plugs can be used with a GL45 threaded cap with a 34mm opening. When tightened, the top end of the plug is parallel to the cap mouth



### Technical Parameter

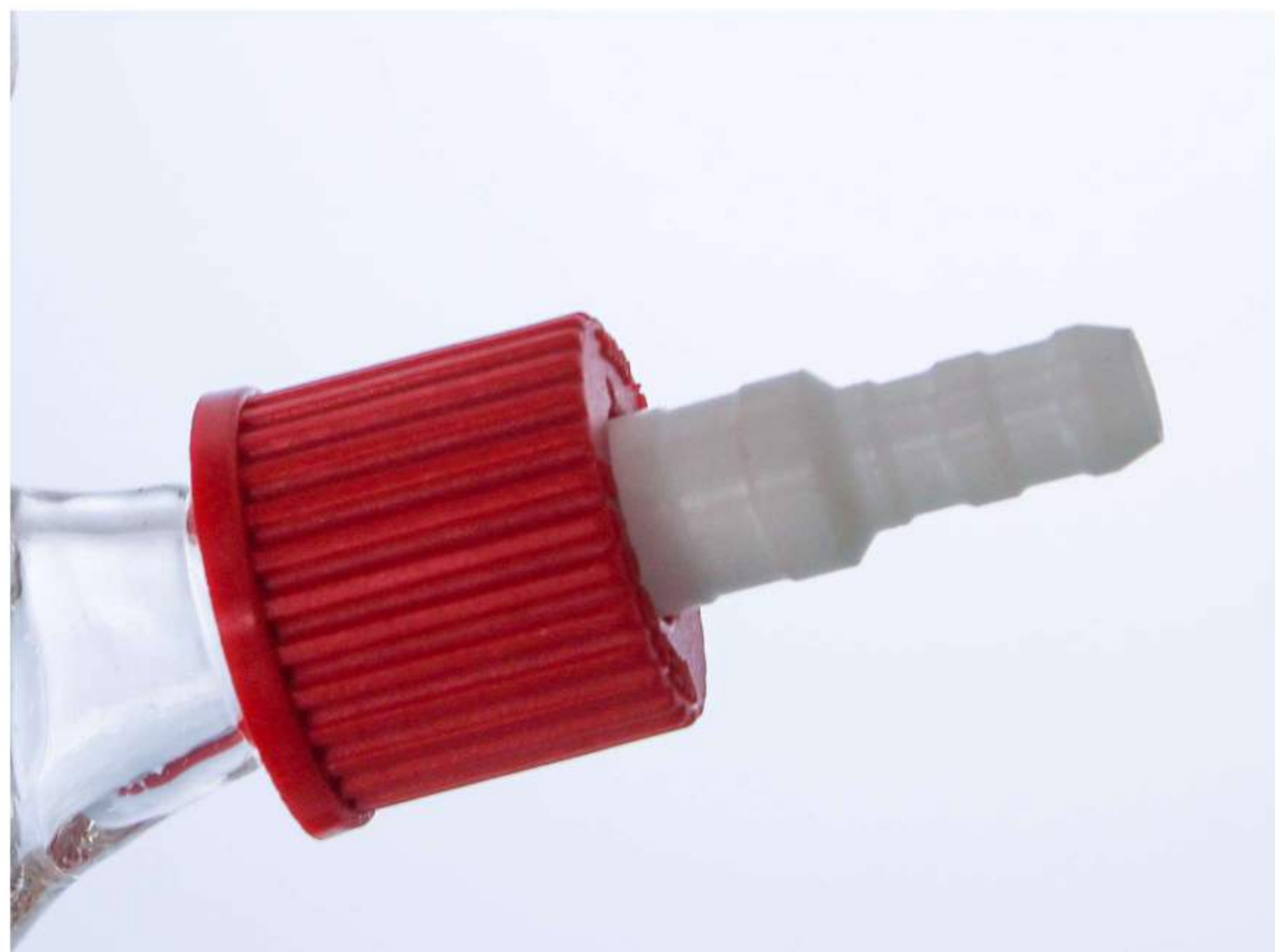
Order Code
4.8.1



Pagoda head for GL14 cap

Features

- Pagoda head made of PTFE, multi-stage processing is suitable for connecting with multi-specification silicone tube fittings
- Equipped with special silicone gasket, good sealing
- Guarantee the stability of the experimental process and the accuracy of the results



Technical Parameter

Order Code	Specification/Volume	Connection Tube Inner Diameter(mm)
4.13.1	14#	1.6
4.13.2	16#	3.1
4.13.3	25#	5
4.13.4	35#	6

Accessory

4.12.1	13*5mm O-Ring For The Pagoda Head
--------	-----------------------------------

Electrode sleeve

Features

- The scope of use of the product is mainly for the protection of valuable PH electrode interface using PTFE sleeve thread for PG13.5 universal several major brands of electrodes
- Selection of high quality new PTFE material



Technical Parameter

Order Code	Specification/Volume
4.16.1	140mm
4.16.2	216mm

Autosampler syringe

Features

- Micro-sampler can be used for scientific research, chemical industry, oil refining, hospitals and other units of analysis, especially suitable for gas chromatography, liquid chromatography liquid analysis, is an indispensable precision instruments of its capacity error of 5%, gas tightness can withstand 0.2MPa.



Technical Parameter

Order Code	Specification/Volume	Out D(mm)	Inside D(mm)	H(mm)
4.5.1	1	8	4.6	122
4.5.2	2.5	10.8	7.28	126
4.5.3	5	15	10.3	131
4.5.4	10	19	14.57	131
4.5.5	25	29.5	23	133.5
4.5.6	50	39	32.5	132.5
4.5.7	100	39.5	32.5	207



Reagent vial Trolley

Features

- The body is made of 316L stainless steel, with a universal wheel, two brake wheels, stopping and entering freely, suitable for laboratory large volume reagent bottle transport mobile



Technical Parameter

Order Code	Specification/Volume	D(mm)	H(mm)
4.21.1	Stainless Steel 304	46	51
4.21.2	Stainless Steel 316	46	51