

Chromatography Sample Vials

Product list of Aijiren



WAJR
WAJR[®]
Zhejiang Aijiren Technology Co.,Ltd



No.3 Qusheng Rd, Nianli Town, Quzhou, Zhejiang Province, China
Tel:+86-0570-8067804 Fax:+86-0570-8067803
Email:wajr@aijirenvial.com Web:www.aijirenvial.com
Web:www.aijirenvial.com



W AJR Aijiren Technology

HPLC&GC Consumables Manufacturer

Product advantage

- ◆With high quality PTFE and silicone rubber or ultrapure silicone as raw materials, the non-toxic septa are assured;
- ◆By using the technology of non-adhesive to stick PTFE membrane with silicone rubber or silica gel, it is possible for the two materials to keep their own excellent properties. Thus, when the PTFE layer of the composited septa touch the reagent, excellent chemical resistance will appear. For example, it is acid-fast, has good alkali resistance, heat resistance, and anti-adhesion ability. Even in the high temperature and strong acid, strong alkali or strong oxidizer, they won't be affected. At the same time, with the using of the elastic silicone rubber or silicone layer, superb sealing performance is guaranteed.
- ◆The introduction of the technology without any adhesive, makes it possible for septa to keep the excellent resilience of silicone rubber or the silica gel. This septa are softer than that with adhesive technology, which can provide better protection for automatic sampler needles.
- ◆The strict production management, guarantee the quality of the products. Our clean products can be used without washing.
- ◆Factory Presentation



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Short Description of Aijiren

Preface Dear Customers!

Zhejiang Aijiren Technology Co.,Ltd was founded in 2007, which located in Qujiang District, Quzhou City, Zhejiang Province. The company's original name is Quzhou Global Rubber Plant. The enterprise assets is over 30 million RMB, covers more than 10,000 square meters, and has clean plant more than 2,000 square meters, 100 employees, 100 existing production facilities and 20 technical staffs, with strong technical force, GMP clean workshop, comprehensive quality assurance system and a subset of testing equipment. Unique geographical conditions create favorable conditions and limitless opportunities for future development.



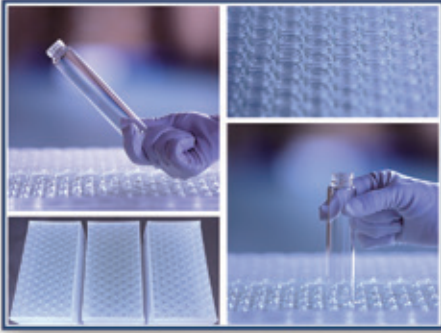
This is a company specialized in laboratory consumables scientific research, design, production, sales and system integration as one of the production-oriented enterprises. The main products including various types of the chromatography autosampler vials with PTFE/silicone septa & caps, micro-inserts, crimpers, PTFE and rubber compound septa and PTFE furniture slides and so on. The products are exported to America, Europe, Asia, Africa and other areas, and we have been maintained close relations of cooperation with domestic and international well-known enterprises.

The culture of enterprise is "Quality first, and give a perfect", which promotes Aijiren to move persistently, and it also supports Aijiren to cooperate and innovation. It is our business commitments which promise to provide high quality products and good service to our customers.

"Continuously developing new products to satisfy the needs of users" is our ultimate goal. Our company is willing to explore the vast market of China and foreign countries, and seek common development in the new field of work. 70 percent of our products are sold to Europe, America and Asia market. Through more than ten years of development and efforts, exchanging and collaborating with many scientific technology departments at home and abroad, we successfully developed various types of autosampler vials specially used in laboratory and analysis industry. We can provide tailor-made laboratory consumables products with high quality to clients all over the world, which may help you conquer challenges in advance when making experiments in the laboratory .

"Solidarity, innovation" is the belief and mission of Aijiren, and it is the foundation of our development. Welcome to visit and cooperate!

Quality Control



Experienced technician with equipped R&D center to fulfill new research and development.

OEM & ODM services are available.

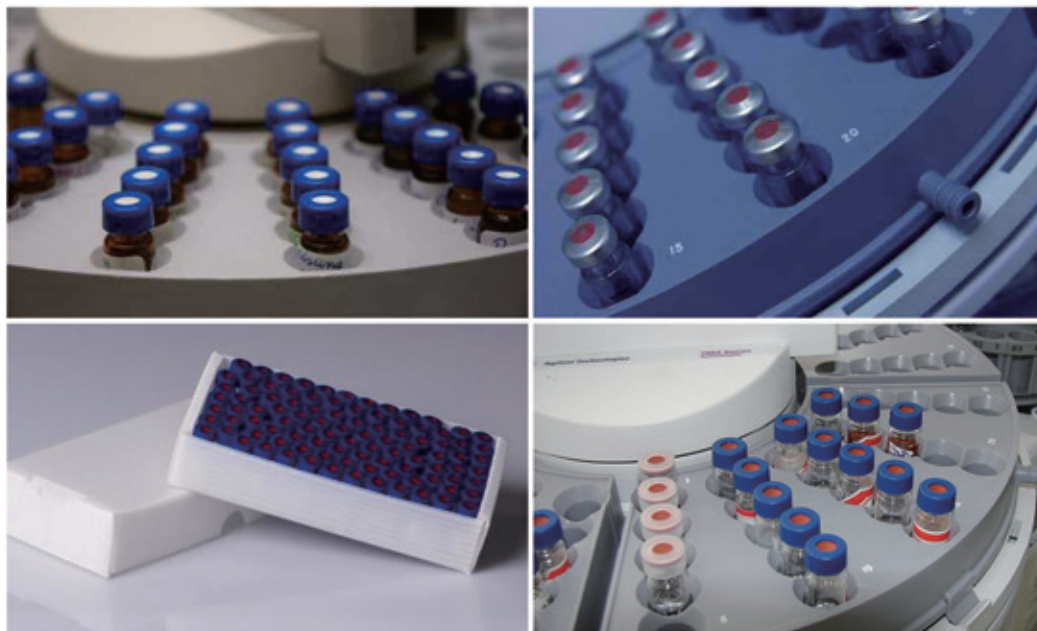
Our products can be 100% compatible with original Agilent, Waters, Virian, Shimadzu, etc.

We are looking for suitable partners as our distributors at different markets. Waiting for your information with interest.

Our qualification

1. Passed ISO9001:2008 quality management system and BUREAU VERITAS certification.
2. All materials are produced from a class 100,000 cleanroom.
3. Factory direct, we have our own R&D Center and Quality Control.
4. We also cooperate with domestic famous university for materials testing.





Autosampler Vials



Aijiren has been involved in the design and manufacture of vials, caps and seals for chromatography for almost as long as chromatography has been used as an automatic analytical technique. Therefore Aijiren is able to offer the most suitable combinations for the most popular instruments currently in use.

Instrument Select is a range of low cost convenience kits for chromatography
Made from specially selected chromatographically clean materials.

Micro-Inserts & Shell Vials

IP150
150uL
Clear glass



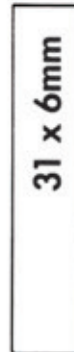
I250
250uL
Clear glass



IV250
250uL
Clear glass



I300
300uL
Clear glass



IP250
250uL
Clear glass



250uL Insert with mandrel
interior conical, suits for ND9
Vials



150uL Insert with mandrel
interior & polymer feet; suits
for ND8 Vials



250uL Micro-Insert, flat bottom;
suits for ND8 Vials

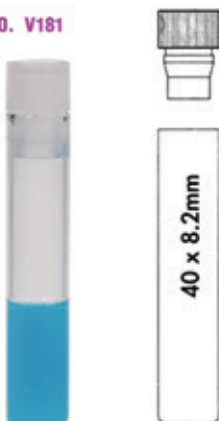


300uL Micro-Insert, flat bottom;
suits for ND9 Vials



250uL Insert with mandrel
interior & polymer feet;
suits for ND9 Vials

Part NO. V181



shell vials

8mm PE-Plug,soft, without insertion

Shell vials are an economical choice for many routine HPLC applications. All Aijiren shell vials are sold as kits including polyethylene push in caps to assure proper fit and function. Vial selections include clear glass, amber glass. The vials are preferentially used on instruments of the following manufacturers:Alcott, Gilson, Shimadzu, Waters: (Wisp 96 respectively 48 Position Carousel)

Starburst cap eases syringe needle penetration, easy push-in & pull-out from vial

Recommended for HPLC usage

A handy and inexpensive vial/closure combination for uncritical analyses

Caps are made of high quality polypropylene to exact manufacturing tolerances and lined in a controlled manufacturing environment.

Screw-Thread Vials

1.5ml 8-425 Screw Thread Vials, ND8



- ◆ The original, smaller opening vial with an 8-425 thread size screw cap.
 - ◆ The dimensions of autosampler vials are various. They are designed to work in a variety of autosamplers requiring narrow neck vials.
 - ◆ Available with black caps and a variety of septa to meet the needs of your application.
- Please check the specific size of the autosampler and WAJR® 8-425 2ml vials design as picture in right.



- ◆ Optimal performance w/ Shimadzu, Varian, Hitachi
- ◆ Vials are manufactured of Clear, Type 1 Class A or Amber, Type 1 Class B borosilicate glass and include a write-on patch for sample identification
- ◆ Fit all 1.5mL, 12x32mm, screw-thread 8-425 vial-based autosamplers.

1.5mL, 8mm Small Opening Screw Vials (vial only), 11.6*32mm

Description	Cat No.
1.5mL clear screw vial, 8-425 thread	V817
1.5mL clear screw vial w/graduated marking spot, 8-425 thread	V827
1.5mL clear screw vial, 8-425 thread, USP type 1	V813
1.5mL clear screw vial w/graduated marking spot, 8-425 thread, USP type 1	V823
1.5mL amber screw vial, 8-425 thread, USP type 1	V835
1.5mL amber screw vial w/graduated marking spot, 8-425 thread, USP type 1	V845

- ◆ The vials are preferentially used on instruments of the following manufactures: Beckman, CTC, Gilson, Knauer, Shimadzu, Spark, Varian, VWR (Merck®)/Hitachi, etc.
- ◆ Standard narrow neck design for GC and HPLC
- ◆ Specially suitable for VWR (Merck®)/Hitachi instruments
- ◆ Broad range of Micro-Inserts
- ◆ Small opening requires Micro-Inserts with a diameter of 5mm Micro-Inserts

Screw-Thread Vials

8-425 Screw Thread Caps and Septa

- ◆ Ready to use combination seals; no time-consuming and "tricky" assembly
- ◆ Available with black or white screw caps with 8-425 thread.
- ◆ Available as closed top screw seals or with centre hole.
- ◆ Broad variety of different septa materials for almost all applications
- ◆ Caps are made of high quality polypropylene to exact manufacturing tolerances and lined in a controlled manufacturing environment.
- ◆ Our septa use only the highest quality materials to ensure proper function and can be pre-slit to ease needle penetration.



- ◆ Designed for multiple injections and/or longer sample cycles-for both GC and LC applications.
- ◆ High quality silicone compounds are used to ensure proper re-sealing and reduced chances of coring.

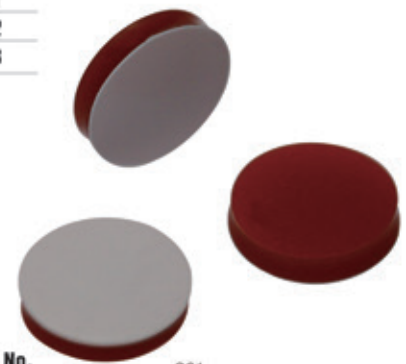


SC8181
S81 C81

8mm Screw-Thread Caps (cap only)

Description

Description	Cat No.
Black screw polypropylene cap, 5.5mm centre hole 8mm	C81
Black screw polypropylene cap, closed-top 8mm	C82
White screw polypropylene cap, 5.5mm centre hole 8mm	C83



S81

8mm Septa (septa only), 8*1.5mm

Description

Description	Cat No.
White PTFE/red Silicone septa	S81
Red PTFE/white Silicone septa	S82
Red PTFE/white Silicone/red PTFE septa	S83
Blue PTFE/white Silicone septa	S84

Screw-Thread Vials

Septa Pre-slit



S844

Our septa use only the highest quality materials to ensure proper function and can be pre-slit to ease needle penetration.



S822

Pre-slit Septa (septa only)

Description	Cat No.
Pre-slit white PTFE/red silicone septa	S811
Pre-slit red PTFE/white silicone septa	S822
Pre-slit blue PTFE/white silicone septa	S844

- ◆ 8*1.5mm temperature resistant -60°C-200°C.
- ◆ 8-425 Thread Screw Cap, PTFE/Silicone,0.040".
- ◆ Absence of elastomer layer reduces potential for contamination.
- ◆ Process without glue was used with PTFE membrane with silicone rubber or silicone key and keep the excellent characteristics of two kinds of materials respectively.

Screw-Thread Vials

Caps and Septa Pre-assembled



We assembled the caps & septa in advance, it can be used directly without washing.



SC8281



SC8482



SC81181



Pre-assembled Caps and Septa

Description

Cat No.

White PTFE/red silicone septa, 8mm black pp cap, 5.5mm centre hole	SC8181
Red PTFE/white silicone septa, 8mm black pp cap, 5.5mm centre hole	SC8281
Red PTFE/white silicone /red PTFE septa, 8mm black pp cap, 5.5mm centre hole	SC8381
Pre-slit white PTFE/red silicone septa, 8mm black pp cap, 5.5mm centre hole	SC81181
Pre-slit red PTFE/white silicone septa, 8mm black pp cap, 5.5mm centre hole	SC82281
Pre-slit blue PTFE/white silicone septa, 8mm black pp cap, 5.5mm centre hole	SC84481
White PTFE/red silicone septa, 8mm black pp cap,closed-top	SC8182
Red PTFE/white silicone septa, 8mm black pp cap,closed-top	SC8282
White PTFE/red silicone septa, 8mm white pp cap, 5.5mm centre hole	SC8183
Red PTFE/white silicone septa, 8mm white pp cap, 5.5mm centre hole	SC8283
Pre-slit white PTFE/red silicone septa, 8mm white pp cap, 5.5mm centre hole	SC81183
Pre-slit red PTFE/white silicone septa, 8mm white pp cap, 5.5mm centre hole	SC82283
Pre-slit blue PTFE/white silicone septa, 8mm white pp cap, 5.5mm centre hole	SC84483

Screw-Thread Vials

1.5mL 9mm Thread Vials, ND9

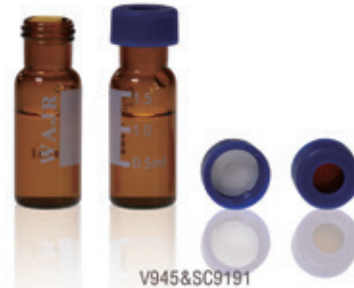


The Universal Autosampler Vial:

- ◆ It is dimensionally equivalent to 11mm crimp top vials and 10-425 screw vials. The 9mm screw vials can be used in any autosampler which used 11mm crimp top vials and 10-425 screw vials.
- ◆ Compared to 11mm crimp top type, the 9mm screw one can be much applied as hand removing convenient.
- ◆ The vials can be used on all common autosamplers due to their technical geometry, preferentially they are found on Agilent, HTA, Shimadzu, Thermo, Varian, Waters, etc.



V923&SC9192



V945&SC9191

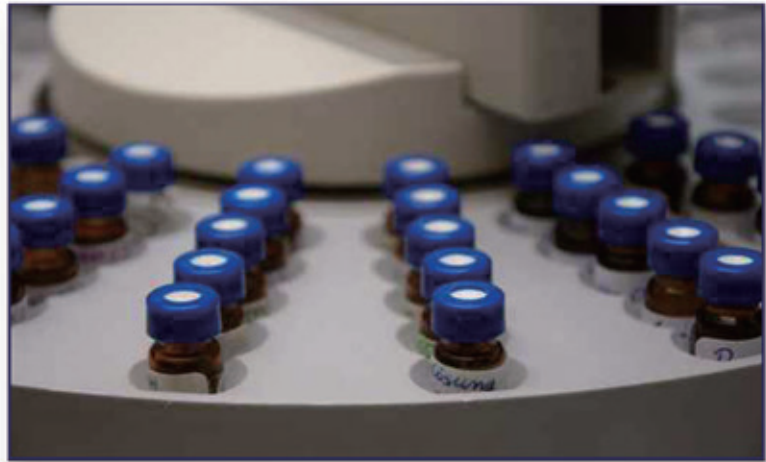


V913&V923

- ◆ 9mm screw thread caps, septa, and vials are designed especially for use with Agilent's and other rotating or robotic arm samplers
- ◆ 1.5mL, 12x32mm vials are manufactured of Clear, Type 1 Class A or Amber, Type 1 Class B borosilicate glass and include a write-on patch for sample identification
- ◆ Fit all 1.5mL, 12x32mm, screw-thread vial based autosamplers.
- ◆ Shorter screw cap allows the robotic autosampler to function properly.
- ◆ Wider opening prevents syringe problems.
- ◆ Variety of colors and liner material.
- ◆ Unique thread design for consistently secure seal
- ◆ Precision-formed neck for optimal robotic arm handling
- ◆ 40% larger opening than standard narrow opening vials
- ◆ Provide graduated write-on marking area, measures 0.5, 1.0 and 1.5mL

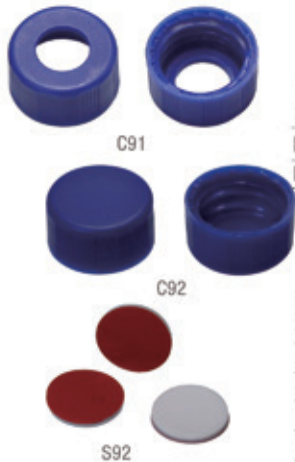
Screw-Thread Vials

1.5mL 9mm Thread Vials, ND9



1.5mL, 9mm Wide Opening Screw Vials (vial only), 11.6*32mm

Description	Cat No.
1.5mL clear screw vial, 9mm thread	V917
1.5mL clear screw vial w/graduated marking spot, 9mm thread	V927
1.5mL clear screw vial, 9mm thread, USP type 1	V913
1.5mL clear screw vial w/graduated marking spot, 9mm thread, USP type 1	V923
1.5mL amber screw vial, 9mm thread, USP type 1	V935
1.5mL amber screw vial w/graduated marking spot, 9mm thread, USP type 1	V945



9mm Thread Caps (cap only)

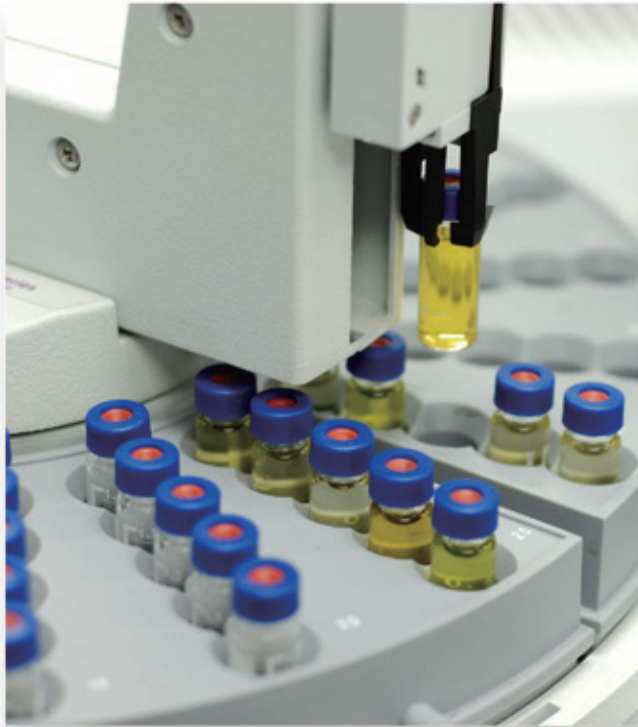
Description	Cat No.
Blue short screw polypropylene cap, 6mm centre hole 9mm	C91
Blue short screw polypropylene cap, closed-top 9mm	C92

9mm Septa (septum only), 9*1mm

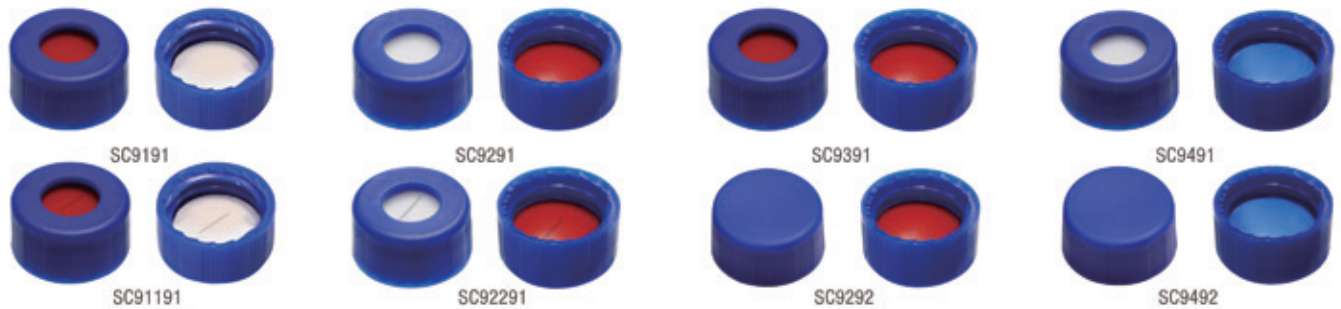
Description	Cat No.
White PTFE/red silicone septa	S91
Red PTFE/white silicone septa	S92
Red PTFE/white silicone/red PTFE septa	S93
Blue PTFE/white silicone septa	S94

Screw-Thread Vials

9mm Screw Thread Caps and Septa



- ◆ Synthetic Rubber/PTFE material as a cost-effective match of the Agilent quality. In contrast to Natural Rubber it is not suitable for multiple injections, however softer for a safe penetration.
- ◆ Short thread seals also available as closed top version (blue cap).
- ◆ Screw cap with the design of a crimp cap; therefore suitable for robotic handling.
- ◆ Already assembled seal with slitted liner available, in order to avoid vacuum within the vial in case of multiple injections.
- ◆ With pre-cut septa only the silicone material is slitted in cross-shape while the PTFE lamination remains intact. This way concentration changes occurring with completely slitted septa can be avoided.
- ◆ Caps are made of high quality polypropylene to exact manufacturing tolerances and lined in a controlled manufacturing environment.
- ◆ Available cap colors include blue.
- ◆ Our septa use only the highest quality materials to ensure proper function and can be pre-slitted to ease needle penetration.



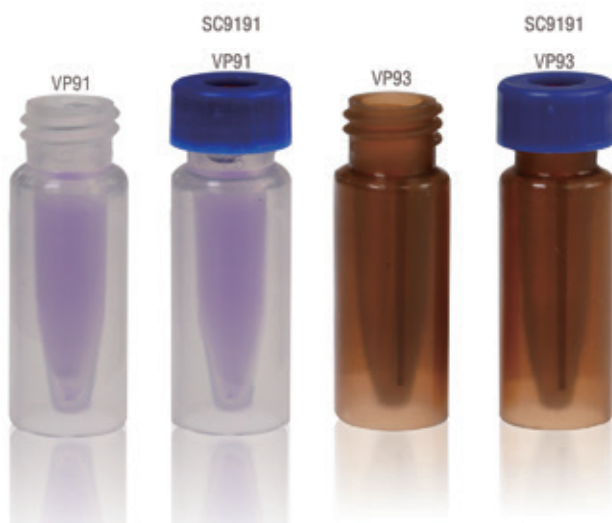
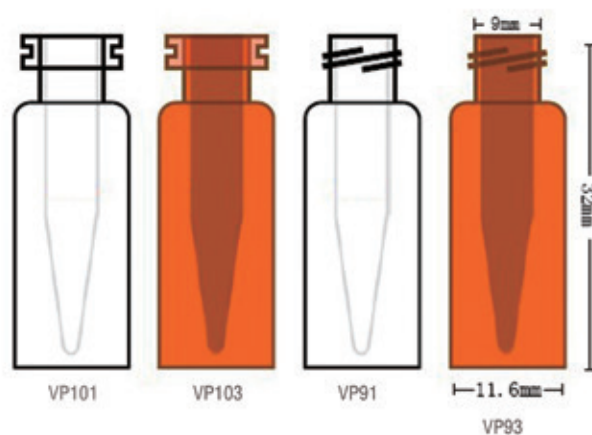
Pre-assembled Caps and Septa

Description	Cat No.
White PTFE/red Silicone septa, 9mm blue PP cap, 6mm centre hole	SC9191
Red PTFE/white Silicone septa, 9mm blue PP cap, 6mm centre hole	SC9291
Red PTFE/white Silicone /red PTFE septa, 9mm blue PP cap, 6mm centre hole	SC9391
Blue PTFE/white Silicone septa, 9mm blue PP cap, 6mm centre hole	SC9491
Pre-slitted white PTFE/red Silicone septa, 9mm blue pp cap, 6mm centre hole	SC91191
Pre-slitted red PTFE/white Silicone septa, 9mm blue pp cap, 6mm centre hole	SC92291
Pre-slitted blue PTFE/white Silicone septa, 9mm blue pp cap, 6mm centre hole	SC94491
White PTFE/red Silicone septa, 9mm blue pp cap, colsed-top	SC9192

Plastic Micro-Vials ND9 + ND11

Polypropylene vials are available in a wide range of volumes and configurations. Breakage is not an issue with plastic vials, and they are non-reactive with most sample chemistries.

- ◆ Compatible with many solvents.
- ◆ Optimal choice when working with proteins
- ◆ Ideal for ic applications
- ◆ Suitable for insert-free microsampling
- ◆ Economical to purchase
- ◆ Translucent and chemically resistant material
- ◆ Traditionally the material of choice for LC or LC/MS and CE
- ◆ For pH-sensitive samples, sodium or heavy metals analysis
- ◆ Screw and snap caps available



ND9 Plastic Screw Micro-Vials (vial only)

Description	Cat No.
300uL clear pp short screw micro-vial	VP91
300uL amber pp short screw micro-vial	VP93

◆ Standard: 11.6 x 32mm, 9mm Screw-Thread

◆ Capacity: 300uL

◆ Polypropylene-lined insert

ND11 Plastic Snap Micro-Vials (vial only)

Description	Cat No.
300uL clear pp snap ring micro-vial	VP101
300uL amber pp snap ring micro-vial	VP103

◆ Standard: 11.6 x 32mm, 11mm snap cap

◆ Capacity: 300uL

◆ Polypropylene-lined insert



Screw-Thread Vials

10-425 Screw Thread Caps and Septa



1.5mL Big Mouth Step Design Screw-Thread Vials, 12 x 32mm, 10-425 Thread

- ◆ 40% larger opening than other vials.
- ◆ Step profile automatically centers glass flange limited volume inserts.
- ◆ Preassembled caps with septa, with or without vials.
- ◆ Designed for Waters Alliance® autosamplers.

The Big Mouth Step Vial System has a larger ID than conventional vials and incorporates a neck finish that is uniquely designed to allow the insert to be precisely aligned in the center of the vial. This precise alignment provides maximum sample withdrawal and eliminates any chance of missed injections.



1.5mL, 10mm Big Mouth Screw Vials (vial only), 11.6*32mm

Description	Cat No.
1.5mL clear screw vial, 10-425 thread, USP type 1	VN1013
1.5mL clear screw vial w/graduated marking spot, 10-425 thread, USP type 1	VN1023
1.5mL amber screw vial, 10-425 thread, USP type 1	VN1035
1.5mL amber screw vial w/graduated marking spot, 10-425 thread, USP type 1	VN1045

- ◆ Fit all 1.5mL, 12 x 32mm, screw-thread vial based autosamplers.
- ◆ Vials are manufactured of Clear, Type 1 Class A or Amber, Type 1 Class B borosilicate glass and include a write-on patch for sample identification



Caps and Septa

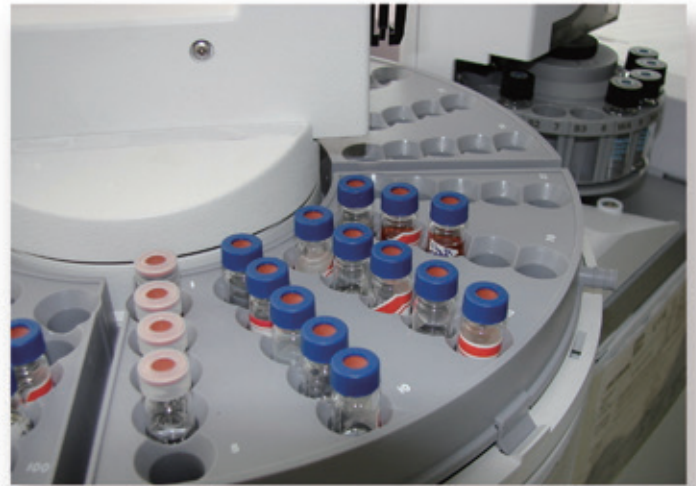
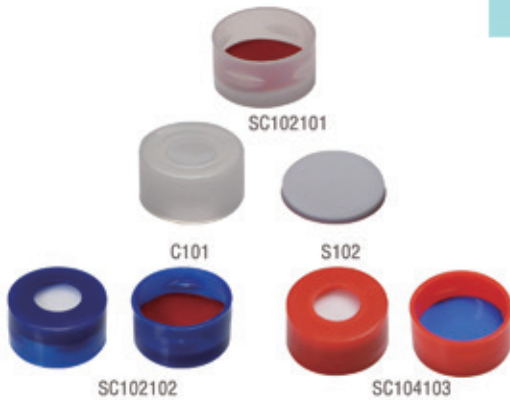
Description	Cat No.
White PTFE/Red Silicone Septa, 0.060"	SN101
Red PTFE/White Silicone, 0.060"	SN102
Black caps, Pre-assembled, White PTFE/Red Silicone Septa	SNCN101101
Black caps, Pre-assembled, Red PTFE/White Silicone Septa	SNCN102101



- ◆ Designed for single injection and/or short sample cycles, particularly for LC applications
- ◆ Absence of elastomer layer reduces potential for contamination.

Snap Caps Vials

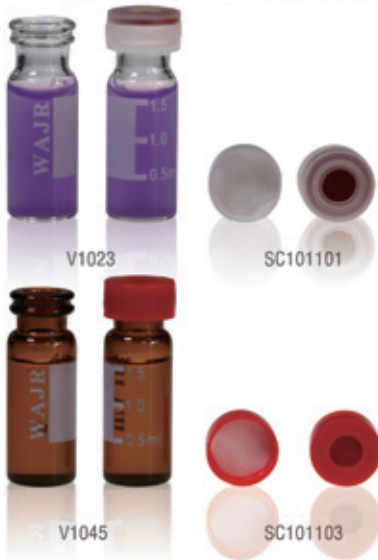
1.5mL, 11mm Snap Ring Vials



Pre-assembled Caps and Septa

Description	Cat No.
Natural Seal,White PTFE/Red Silicomer Septa	SC101101
Natural Seal,Red PTFE/White Silicomer Septa	SC102101
Natural Seal,Red PTFE/White Silicomer/Red PTFE Septa	SC103101
Blue Seal,White PTFE/Red Silicomer Septa	SC101102
Blue Seal,Red PTFE/White Silicomer Septa	SC102102
Red Seal,White PTFE/Red Silicomer Septa	SC101103

- ◆ Our septa use only the highest quality materials to ensure proper function
- ◆ Caps are made of high quality polypropylene to exact manufacturing tolerances and lined in a controlled manufacturing environment
- ◆ Designed for single injection and/or short sample cycles, particularly for LC applications

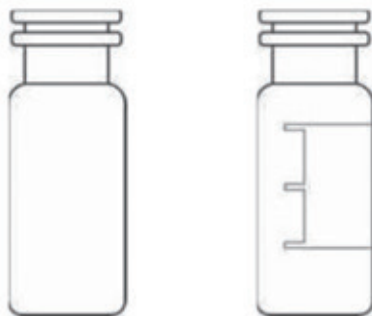


1.5mL, 11mm GC Snap-Top Vials (vial only), 11.6*32mm

Description	Cat No.
1.5mL Clear Snap-Top vial	V1017
1.5mL Clear Snap-Top vial w/graduated marking spot	V1027
1.5mL Clear Snap-Top vial, USP type 1	V1013
1.5mL Clear Snap-Top vial w/graduated marking spot, USP type 1	V1023
1.5mL Amber Snap-Top vial, USP type 1	V1035
1.5mL Amber Snap-Top w/graduated marking spot, USP type 1	V1045

◆ Vials are manufactured of Clear, Type 1 Class A or Amber, Type 1 Class B borosilicate glass and include a write-on patch for sample identification

- ◆ Good for pressurized injection systems.
- ◆ Save money! Use this snap cap when you don't need to crimp.



Snap Top Vials

These vials are ideal for high throughput analyses. The polyethylene caps used with snap top vials offer a positive seal, yet are quickly and easily attached and removed without the use of crimping or decapping tools.

They are available in clear glass and amber glass, with or without marking spots. Snap top vials should not be used for long term storage.

Crimp Neck ND11

1.5mL, Crimp Neck Vials ND11



The patented Crimp Seal is versatile, working as either a snap-on or crimp-top cap. Simply use a standard crimping tool to secure the Crimp Seal onto any crimp-top vial. It's that easy!

The Crimp Seal offers the following advantages:

- ◆ Works on any crimp style vial.
- ◆ Crimps smoothly and easily no more sharp edges from an aluminum crimp cap.
- ◆ Easily decaps using standard decapping tools.
- ◆ Eliminates inconsistent sealing that results from improper crimping.
- ◆ Unique design holds the septum firmly in place.
- ◆ Provides better seal than snap caps.
- ◆ Meets CONEG standards. The Crimp Seal is free of heavy metals and is easily disposed of or incinerated.



Pre-assembled Caps with Septa

Description	Cat No.
Aluminum cap and white PTFE/red silicone septa	SC111111
Aluminum cap and red PTFE/white silicone septa	SC112111
Aluminum cap and red PTFE/white silicone/red PTFE septa	SC113111

- ◆ Crimp-top aluminum cap, 5.5mm centre hole
- ◆ Directly compatible with autosamplers



1.5mL Crimp-Top Vials (vial only), 11.6*32mm

Description	Cat No.
1.5mL clear crimp-top vial, USP type 1	V1113
1.5mL clear crimp-top vial w/graduated marking spot, USP type 1	V1123
1.5mL amber crimp-top vial, USP type 1	V1135
1.5mL amber crimp-top vial w/graduated marking spot, USP type 1	V1145

The vials are preferentially used on instruments of the following manufacturers:

Agilent, Carlo Erba, CTC, DANI, Fisons, Gerstel, Jasco, PerkinElmer, Shimadzu, Spark, Thermo Scientific, Varian, etc.



Screw-Thread Vials

4.0mL Screw Step Vials, 13-425 Thread



The vials are preferentially used on instruments of the following manufacturers: **Dionex, Shimadzu, Spark, Varian, VWR (Merck)/Hitachi, Waters' (Wisp 48 Position Carousel), etc.**

- ◆ Ready to use combination seals; no time-consuming and "tricky" assembly
- ◆ No contamination of the liner with sweat/fat that normally is caused by manual assembly
- ◆ Available as closed or open top screw seals with 13-425 thread
- ◆ Tamper-proof evident and recloseable zip-lock bags ensure product safety
- ◆ Broad variety of different septa materials for almost all applications

V1345



SC131131

4.0mL WISP 48 Screw-Thread Step Vials (vial only) 15 x 45mm, Description

Description	Cat No.
4.0mL clear screw step vial, 13-425 thread	V1317
4.0mL clear screw step vial w/graduated marking spot	V1327
4.0mL amber screw step vial, USP type 1	V1335
4.0mL amber screw step vial w/graduated marking spot, USP type 1	V1345

SC131131

SC132131

SC133131

SC134132

Pre-Assembled, 13-425 Screw-Thread Caps and Septa

Description	Cat No.
White PTFE/red Silicone septa, 13mm black PP cap, 8.5mm centre hole	SC131131
Red PTFE/white Silicone septa, 13mm black PP cap, 8.5mm centre hole	SC132131
Red PTFE/white Silicone /red PTFE septa, 13mm black PP cap, 8.5mm centre hole	SC133131
Nature PTFE/nature Silicone septa, 13mm black PP cap, 8.5mm centre hole	SC134131
Nature PTFE/nature Silicone septa, 13mm black PP cap, closed-top	SC134132
Pre-slit white PTFE/red Silicone septa, 13mm black PP cap, 8.5mm centre hole	SC1311131

- ◆ Standard: 13*1.5mm temperature resistant -60°C-200°C
- ◆ Ideal for general laboratory use and storage of samples.
- ◆ Chemically inert caps suitable for most chromatography and storage applications



Why Choose Headspace Vials?

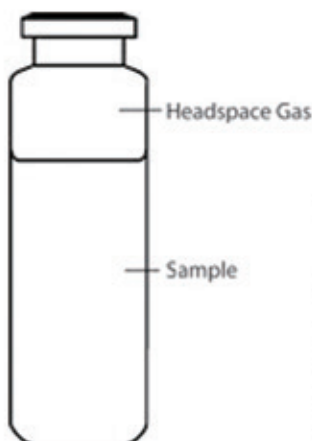
WAJR[®] high quality headspace vials have a bevelled neck for a secure seal, uniform glass thickness for even heat distribution and a stable, strong design for ease of use. They are available with rounded or flat bottom profiles for accurate instrument compatibility. Use with 20mm headspace caps and septa and seal with 20mm crimping accessories.

Headspace Vials ND18 ND20



Headspace Vials

What is GC Headspace?



Simple Definition

'Headspace' is the gas space above the sample in a chromatography vial. Volatile sample components diffuse into the gas phase, forming the headspace gas.

Headspace analysis is therefore the analysis of the components present in that gas.



Suitability

Headspace gas chromatography is most suited to the analysis of the very light volatiles in samples that can be efficiently partitioned into the headspace gas volume from the liquid or solid matrix sample. Higher boiling volatiles and semi-volatiles are not detectable with this technique due to their low partition in the gas headspace volume. Partitioning is covered in more details later in this article.

Headspace gas analysis also lends itself to automation for quality control or sample screening. This is made possible by modern instrumentation, through which highly reproducible samples can be prepared in an efficient and accurate manner.

Complex sample matrices, which may be difficult to analyse directly or would otherwise require sample extraction or preparation, are ideal candidates for headspace since they can be placed directly in a vial with little or no preparation. This saves both time and money.

Applications

Headspace GC is used for the analysis of volatile and semi-volatile organics in solid, liquid and gas samples. The popularity of this technique has grown over recent years and has now gained worldwide acceptance for analyses of alcohols in blood and residual solvents in pharmaceutical products.

Other common applications include industrial analyses of monomers in polymers and plastic, flavour compounds in beverages and food products, and fragrances in perfumes and cosmetics.

Headspace Vials

Screw Thread Headspace ND18



VA201



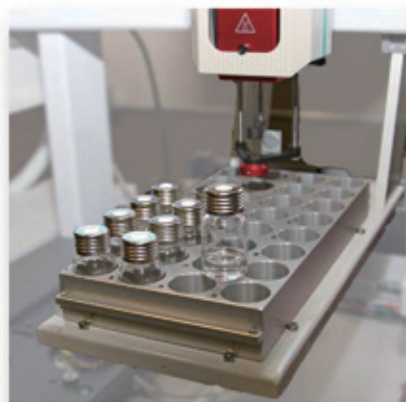
Screw Thread Headspace

Work on a Variety of Instruments

- ◆ Excellent performance on all CTC Analytics Systems requiring magnet compatible closures
- ◆ Modern Agilent Headspace Samplers
- ◆ PerkinElmer Headspace Samplers
- ◆ Tekmar and most other autosamplers that do not require transports

Headspace Vials

Screw Thread Headspace ND18



CTC



18mm - Headspace GC Vial

Description

Clear, 10mL Screw Headspace Vial, Round Bottom 22.5x46mm
 Clear, 20mL Screw Headspace Vial, Round Bottom 22.5x75.5mm

Cat No.

VA101
 VA201



SACA001

18mm - Headspace GC, Septa & Caps

Description

18mm Magnetic Precision Screw Metal Cap
 Blue PTFE/White Silicone septa, 17.5x1.5mm
 Blue PTFE/White Silicone septa, 18mm Magnetic Precision Screw Metal Cap

Cat No.

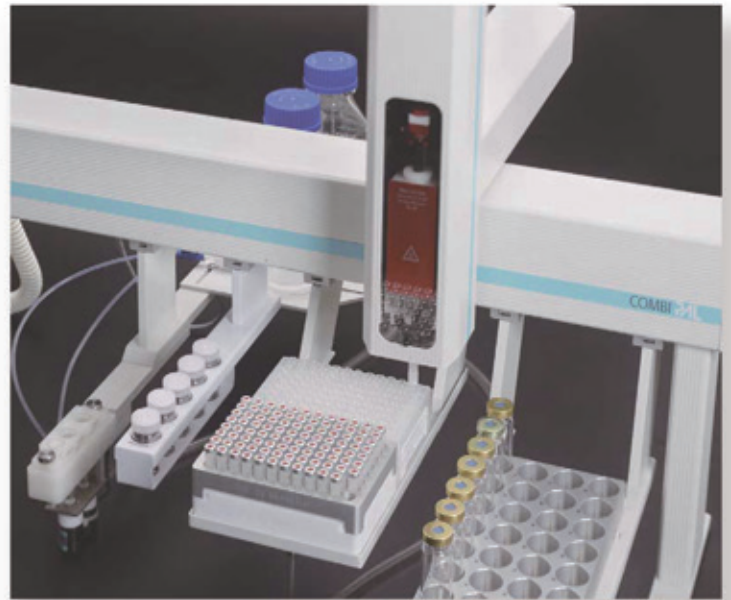
CA001
 SA001
 SACA001

- ◆ Screw headspace caps, septa, and vials are designed especially for use with Agilent's and CTC rotating or robotic arm samplers.
- ◆ Certified by GC/MS to be contaminate free for VOC Analysis.
- ◆ 10 or 20mL clear precision threaded vial.
- ◆ Magnetic screw caps -8 mm centre hole.
- ◆ Septa are blue (PTFE) sample side; white (Silicone) outside.
- ◆ 10mL, 20mL, 22.5 x 46/75.5mm vial, 17.5 x 1.5mm septa, 18mm metal screw cap.

Headspace Vials

Crimp-Top Headspace ND20

Aijiren high quality headspace vials have a bevelled neck for a secure seal, uniform glass thickness for even heat distribution and a stable, strong design for ease of use. They are available with rounded or flat bottom profiles for accurate instrument compatibility. Use with 20mm headspace caps and septa and seal with 20mm crimping accessories.



A Complete Selection of 20mm Crimp Headspace Vials

Count on MicroLiter to deliver a clean, well manufactured headspace vial.

- ◆ Flat Bottom Vials for late model Agilent Headspace Samplers
- ◆ 10mL Flat&Beveled Crimp Seal Finish Vials for CTC Analytics PAL Systems
- ◆ Aluminum seals with the magnetic characteristics of metallic seals
- ◆ Improved 20mL vial for CTC Analytics Systems
- ◆ Septa designed for optimum performance in a variety of applications and heat ranges

Headspace Vials

Headspace Vial and Septa Issues

Headspace Vial and Septa Issues

In order to achieve the best performance with headspace GC, careful attention should be paid to sample preparation and instrument setup. The vial and cap are a very important, and often overlooked, element in the headspace analysis preparation.

It is important to ensure the correct vial and cap are used!



Vial Size

Headspace vials are available in 6, 10 and 20ml sizes. Use a vial large enough to ensure adequate headspace or phase ratio without excessive dilution of the components of interest. Phase ratio is discussed later and should normally be at least 50% of the sample volume.

Bottom Profile

Headspace vials may be round-bottomed or flat-bottomed, both of types are suitable but round-bottomed vials tend to be stronger and may work more reliably when the autosampler moves the vials into and out of the incubator. Round-bottomed vials also tend to withstand higher pressures and are more suitable for elevated temperatures and applications such as derivatization.

Correct Crimping

Headspace vials must be correctly crimped. Ensure the crimper is not worn and is adjusted correctly. The cap should not turn after application to the vial. Find out more about correct vial crimping.

Septa Choice

Use septa suitable for the temperature of the system. Poor septa can result in bleed and so contaminate the headspace.







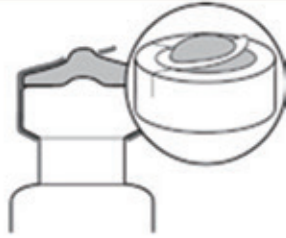
Cleanliness of Vials

Vials should be clean. Not all vials are the same and dirty or re-washed vials can cause ghost peaks or erroneous results.






Headspace Vials

Inappropriate crimp and Choosing the right at Headspace Vials bottom

An inappropriate crimp can be recognized by:

<p>Correct Crimp</p>  <p>Flat cap surface Flat septa surface</p>  <p>Tight fitting of the Aluminum edge</p> <p>Plain + undeformed</p>					
	Unlight Aluminum edge	Upward bulge of the crimp cap	Deformation of the crimp cap sides	Convex looking liner	Rounded edges/Upward bulge of the Cap/Liner
	Adjust crimping pressure with the screw in the handle + Adjust crimping height with the hexogen key (s. below)	Adjust crimping pressure with the screw in the handle + Adjust crimping height with the hexogen key (s. below)	Adjust crimping height with the hexogen key (s. below)	Adjust crimping pressure with the screw in the handle	Especially with Headspace Caps II is Important not to overcrimp them. If the Aluminum is stretched too much under the crimp neck, the bridges of the scorelines suffer too much stress and can break open at even low pressure (below 3 bars) or - in worst case - can even tear apart beside the scorelines
	(undercrimped)	(overcrimped)	(overcrimped)	(overcrimped)	(overcrimped)

Headspace Vials + Closures ND20 + ND18 (Headspace Compatibility Chart)
Choosing the right Headspace Vials at the bottom:

				
22.5 x 46 mm (CTC, Varian)	22.5 x 75.5 mm (CTC, Varian)	22.5 x 46 mm (DANI, Agilent)	22.5 x 75.5 mm (CTC, Varian/PerkinElmer)	22.5 x 75.5 mm (DANI, Agilent)
VA101	VA201	VH1017 VH1013 USP type 1	VHR2013 USP type 1	VH2017 VH2013 USP type 1
CTC Combi PAL (Varian, Gerstel, Atas, Shimadzu), PerkinElmer*, Agilent	CTC Combi PAL (Varian, Gerstel, Atas, Shimadzu), PerkinElmer*, Agilent	Agilent, Carlo Erba, DANI, Fisons	CTC PAL (Varian, Gerstel, Atas, Shimadzu) Thermo Scientific PerkinElmer TriPlus HS ***	Agilent, Carlo Erba, DANI, Fisons

Headspace Vials and Closures

Beveled-neck headspace vials are available in both 10 mL and 20 mL capacities, flat or rounded bottom. The 20 mm crimp caps provide a consistently secure seal.

- ◆ Choice of crimp or screw top vials
- ◆ Beveled top for maximum secure seal
- ◆ Two neck lengths available
- ◆ Choice of a pressure safety release cap at 45 psi
- ◆ Available in flat or rounded bottom designs

Headspace Vials

Crimp-Top Headspace ND20

- ◆ Superior USP Type 1, Flat & Round bottom
- ◆ Pre-assembled 20mm crimp seals with septa
- ◆ Pressure release seals have bridges and score lines in the aluminum seal
- ◆ Strict tolerances ensure reliable results
- ◆ Flat bottom headspace vials -Recommended for HP/Agilent, Shimadzu
- ◆ Crimp headspace caps, septa, and vials are designed especially for use with Agilent's and other rotating or robotic arm samplers

- ◆ 10mL, 20mL, 22.5 x 46/75.5mm vial, 20 x 3mm septa, 20mm aluminum crimp cap



AJRC20
Crimper, for use w/20mm crimp seals
41X76X210mm



SBC201202 SBC202202

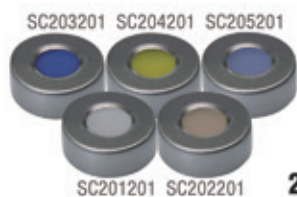
Crimp-Top- Headspace GC Vial ND20

Description	Cat No.
Clear, 10mL Crimp Headspace Vial, Flat Bottom 22.5x46mm	VH1013
Clear, 20mL Crimp Headspace Vial, Flat Bottom 22.5x75.5mm	VH2013
Clear, 20mL Crimp Headspace Vial, Round Bottom 22.5x75.5	VHR2013



Magnetic Crimp Caps

Aijiren magnetic crimp caps are suitable for autosamplers that use magnetic transportation. The Aijiren 20mm bi-metallic magnetic headspace seal (BC202) has a magnetic steel central disk making it suitable for magnetic transportation by an autosampler. It also has an aluminium skirt to allow easier crimping and decrimping.



SC201201 SC202201

20mm - Headspace GC, Septa & Cap



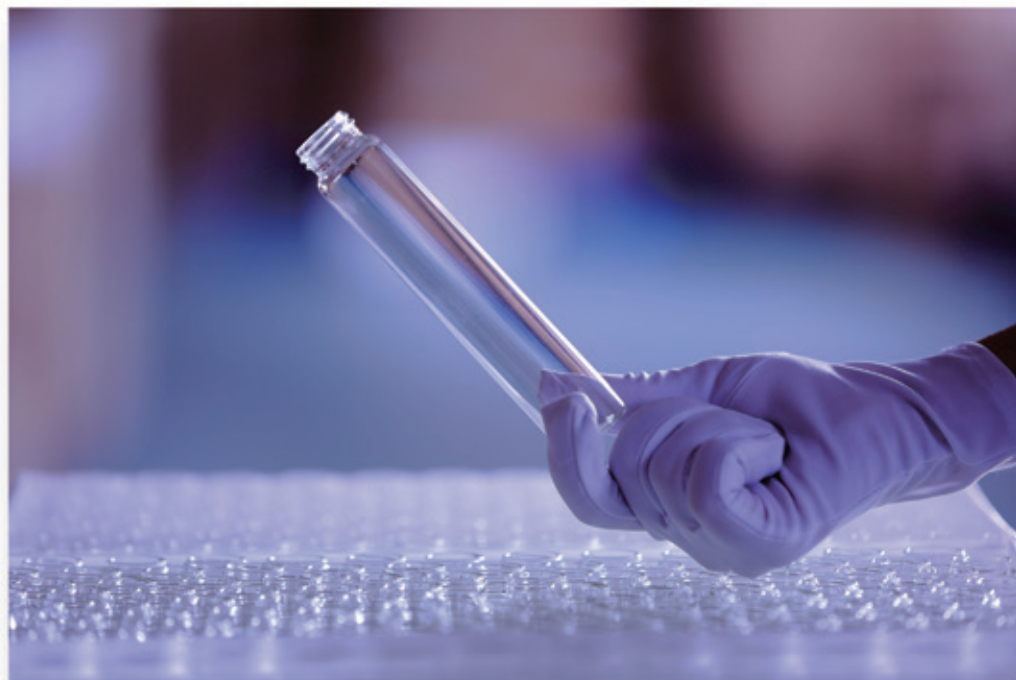
MSC207201

Description	Cat No.
White PTFE/White Silicone Septa, 20mm Silver Aluminum Crimp-Top Cap	SC201201
Nature PTFE/nature Silicone Septa, 20mm Silver Aluminum Crimp-Top Cap	SC202201
White PTFE/blue Silicone Septa, 20mm Silver Aluminum Crimp-Top Cap	SC203201
White PTFE/white Silicone Septa, 20mm Blue Magnetic Aluminum Crimp-Top cap	SBC201202
Nature PTFE/nature Silicone Septa., 20mm Blue Magnetic Aluminum Crimp-Top cap	SBC202202
Grey PTFE/Pharma-Fix Butyl Septa, 20mm Silver Aluminum Crimp-Top Cap	MSC207201
Grey PTFE/Pharma-Fix Butyl Septa, 20mm Blue Magnetic Aluminum Crimp-Top cap	MSBC207202

Storage Vials

EPA/Storage/VOA Vial

- ◆ Container, liner and closure cleaned and assembled.
- ◆ Clear or amber.
- ◆ Open top caps & closed-top caps
- ◆ PTFE faced 0.125" silicone septa.
- ◆ Each case lot numbered.



Why Choose VOA Vials?

VOA vials are specifically designed for use with volatile organic compounds.

They are available in both clear and amber borosilicate glass and have a temperature range of -40°C to 125°C .

- ◆ Ready to use combination seals; no time-consuming and "tricky" assembly.
- ◆ No contamination of the liner with sweat/fat that normally is caused by manual assembly.
- ◆ Available as closed top screw seals or with centre hole in white 24-400 caps.
- ◆ Broad variety of different septa materials for almost all applications.
- ◆ Also UltraBond Seals ND24 are offered, i.e. that the cap and the Silicone/PTFE liner of these seals form an inseparable unit avoiding the problem of liners falling out of the cap. This 100% firm fit of the liner is achieved by a patented process that requires no adhesives, but instead changes the molecular structure of both components to achieve the fixation.
- ◆ Also pre-sealed vials are available!

Storage Vials

EPA/Storage/VOA Vial



S221-I

22*3mm



S221-II

22*1.5mm



SC221221



SC221222



SC221223

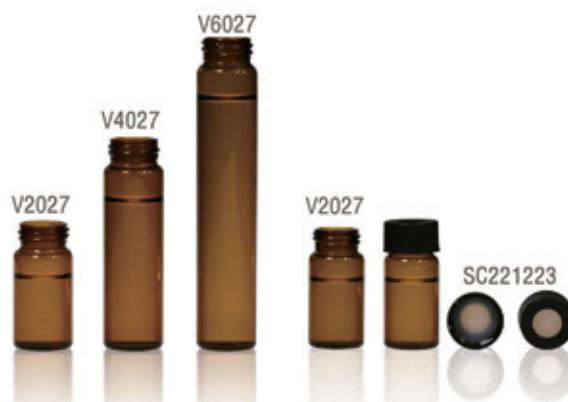


SC221224

EPA/Storage/VOA Septa and Caps

Description

Description	Cat No.
Nature PTFE/Nature Silicone Septa, 22x3mm	S221-I
Nature PTFE/Nature Silicone Septa, 22x1.5mm	S221-II
Nature PTFE/Nature Silicone Septa, 22x3mm, 24mm White Opened-Top Screw PP Cap	SC221221
Nature PTFE/Nature Silicone Septa, 22x3mm, 24mm White Closed-Top Screw PP Cap	SC221222
Nature PTFE/Nature Silicone Septa, 22x3mm, 24mm Black Opened-Top Screw PP Cap	SC221223
Nature PTFE/Nature Silicone Septa, 22x3mm, 24mm Black Closed-Top Screw PP Cap	SC221224



EPA/Storage/VOA Vial

Description

Description	Size (mm)	Screw-Thread Size	Cat No.
20mL Clear Pre-Cleaned VOA Vials	27.5x57	24-400	V2017
20mL Amber Pre-Cleaned VOA Vials	27.5x57	24-400	V2027
30mL Clear Pre-Cleaned VOA Vials	27.5x75	24-400	V3017
40mL Clear Pre-Cleaned VOA Vials	27.5x95	24-400	V4017
40mL Amber Pre-Cleaned VOA Vials	27.5x95	24-400	V4027
60mL Clear Pre-Cleaned VOA Vials,	27.5x140	24-400	V6017
60mL Amber Pre-Cleaned VOA Vials	27.5x140	24-400	V6027

◆ The vials are preferentially used on instruments of the following manufacturers:

Agilent, Dionex, Shimadzu, Tekmar, Thermo Scientific, Varian

◆ Volumes of 20mL, 30mL, 40mL and 60mL available

◆ Pre-sealed vials are available, especially be needed for EPA analysis

◆ 20mL-60mL, 22 x 3mm septa, 24mm pp screw cap





Accessories and Reference Information



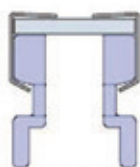
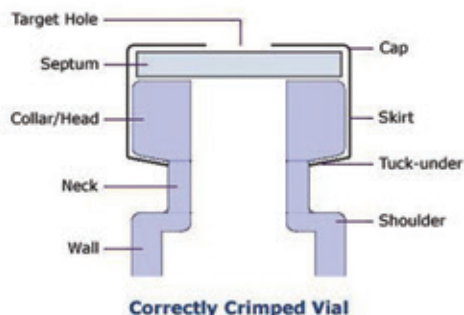
The Aijiren range of tools and accessories have been developed as a result.

The range has been designed to make life easier for the chromatographer.

Instrument compatibility, vial drawings and other valuable reference tools.



Crimpers and Capping Systems



Your selection and technique for crimping can have a significant effect on the preservation of sample integrity.

The Aijiren system creates a perfect seal, ensuring sample integrity.

A correctly crimped vial is neither over-crimped nor under-crimped.

Over-crimping may cause coring or poor septum resealing.

Under-crimping can cause evaporation problems.

With proper adjustment of the vial crimpers, perfect crimping can be achieved every time.

When the vial is crimped perfectly, the cap should not be able to rotate and the septum should appear smooth and level.



An inappropriate crimp cannot be recognized by trying to turn the seal, as completely PTFE-laminated liners have a very slippery surface on the glass rim, which allows anyone to turn the cap, if the right torque is used.

The turning of the cap is even easier when the liner is sitting on a headspace (bevelled top) glass rim, as it then only has very small surface to rest on.



AJRC20

Hand Crimper

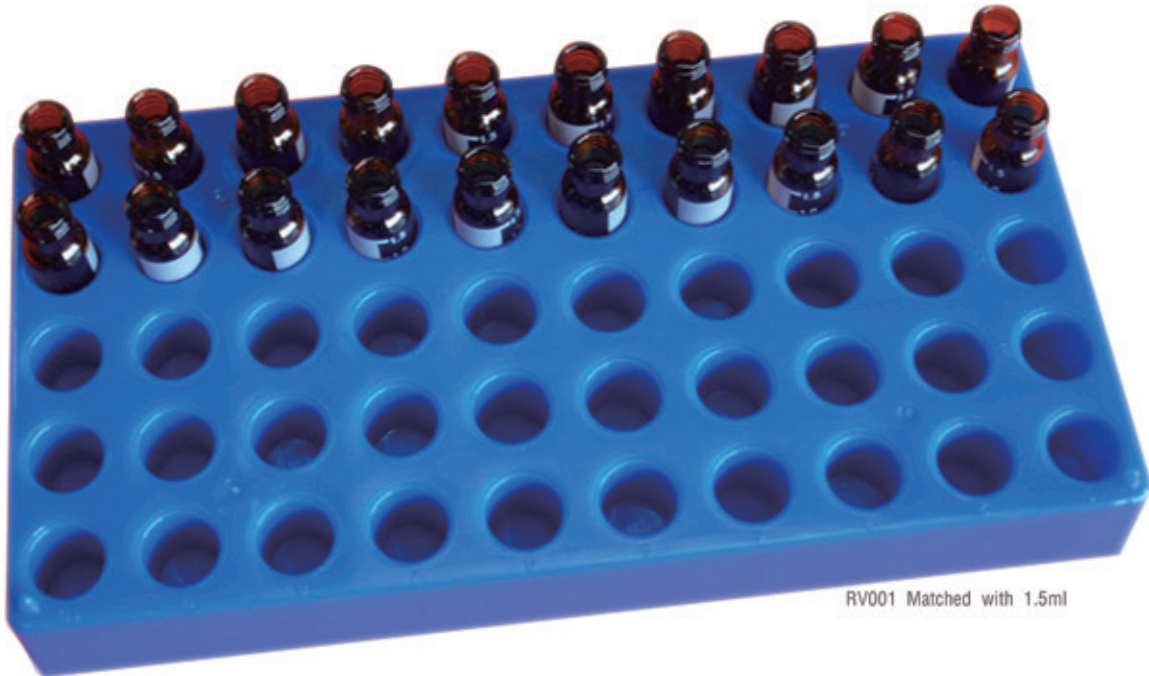
Description	Size	Weight	Cap size	Cat No.
11mm Crimp Seals	41X76X210mm	450g	11X7.3-7.7mm Thickness 0.2mm	AJRC11
20mm Crimp Seals	41X76X210mm	450g	20.5X7.3-7.7mm Thickness 0.2mm	AJRC20



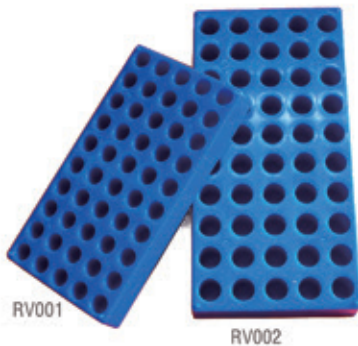
AJRC11

- ◆ Painted, plated and coated for maximum corrosion resistance
- ◆ Adjustable stop for optimal sealing performance
- ◆ Textured handles for excellent grip
- ◆ Controlled, low-effort method for removing caps, reducing both sample spillage and breakages

Vial Racks



RV001 Matched with 1.5ml



RV001

RV002

Vial Racks

Description

Vials Rack for 1.5mL vials, blue, 50 holes, 1pcs/pack

Vials Rack for 4mL vials, blue, 50 holes, 1pcs/pack

Cat No.

RV001

RV002

- ◆ 50 holes
- ◆ Matched with 1.5ml and 4ml vials
- ◆ Made by polypropylene
- ◆ Easy handling and transportation of sample vials.
- ◆ Stable standing position because of solid construction.
- ◆ Custom-tailored vial racks can be manufactured according to customer's specifications.

GC Septa and Syringe Filters

GC Septa

High Performance GC Septa

These GC septa have been developed by Aijiren to:

- ◆ Operate at true operating temperatures up to 340°C
- ◆ Provide better, cleaner chromatography
- ◆ Offer a longer operating life
- ◆ Be packed in a chromatographically clean container



High Performance GC Septa

Description

GC Plug for Shimadzu GCs, Thermolite color, 5.5*7*7.5mm, temperature resistant 340°C, 25pcs/glass bottle

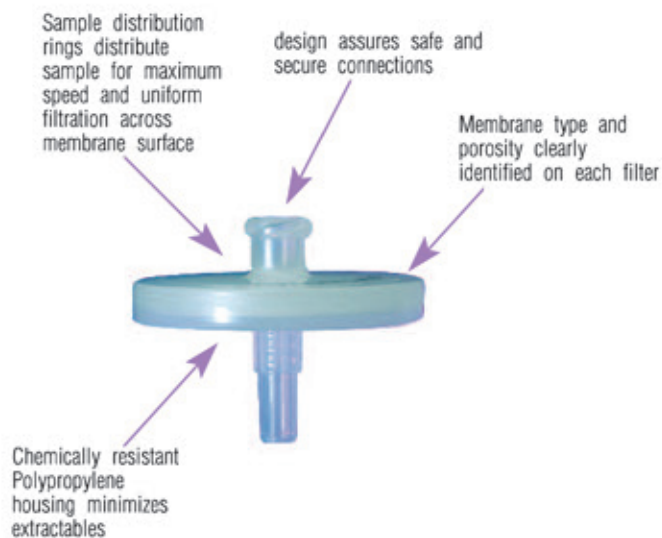
Cat No.

GCS001

GC Septa, Ice blue color, 11*3mm, temperature resistant 250°C, 25pcs/glass bottle

GCS002

Syringe Filter



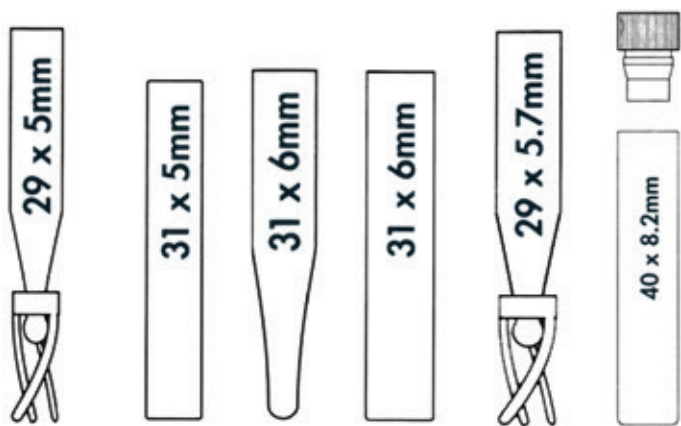
Product Features:

- ◆ Smooth surface, easy cleaning, can blowback. High temperature resistance, resistant to strong acid and alkali, a wide range of applications.
- ◆ High filtration efficiency, Long service life
- ◆ Porosity can reach 85% -90%
- ◆ Low surface friction coefficient of 0.1
- ◆ High chemical compatibility
- ◆ High temperatures resistance (180-260°C)

**For full details of our Syringe Filters range please request a brochure.
(All Aijiren syringe filters are packed in 100pcs)**

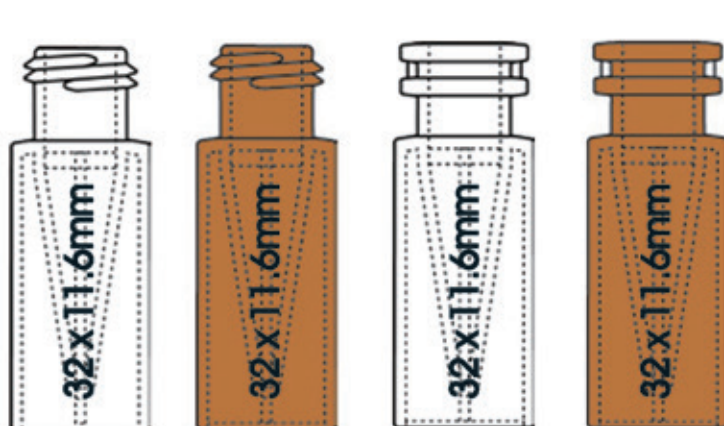
Vials

Micro-Inserts & Shell Vials



IP150 I250 I250 I300 IP250 V181

PP Vials



VP91 VP93 VP101 VP103

Screw Neck ND8, small opening



V813 V817 V823 V827 V835 V845

Short Thread ND9



V913 V917 V923 V927 V935 V945

Screw Neck ND10, wide opening



VN1013 VN1023 VN1035 VN1045

Snap Ring ND11



V1013 V1017 V1023 V1027 V1035 V1045

Vials

Crimp Neck ND11

Screw Neck ND13



V1113
V1117

V1123
V1127

V1145

V1317

V1327

V1335

V1345

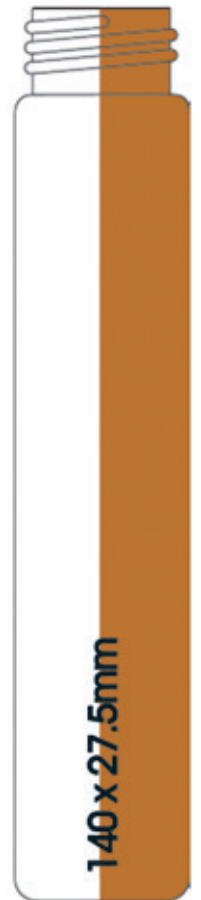
Headspace

More series see page 23 for
Headspace Compatibility Chart

EPA-Vials ND24

Screw Thread ND18

Crimp-Top ND20



VA201

VHR2013

V2017
V2027

V3017

V4017
V4027

V6017
V6027

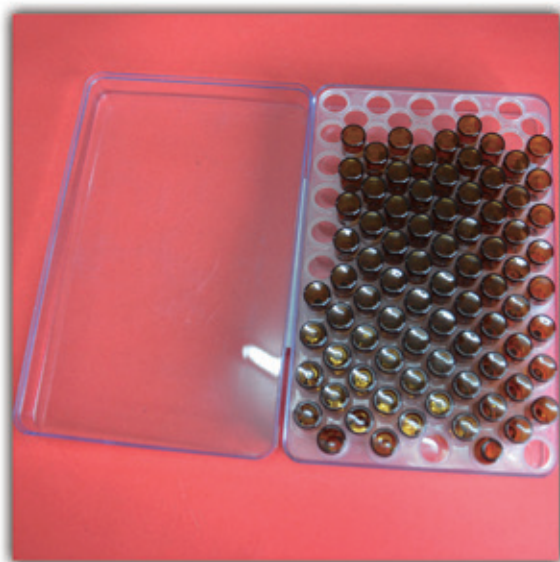
Aijiren design of packaging has the following characteristics:

Vial New Packing:

1. Comfortable, Delicate.
2. Vial rack inside, replace 1.5ml vial rack.
3. "Upside Down" design to keep away from the dust.

Cap & septa new packing:

1. Our new packing of caps achieved food grade packaging requirements.
2. Assembled in GMP workshop to ensure the cleanliness of the caps with septa.
3. Brown plastic packing for aluminum caps, keep the caps intact. Easy to visually see things inside, more visual impact from the outside.

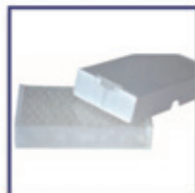


we can offer you the new packing designed by Aijiren Technology.

Cap & septa



Vial



Headspace Cap



Micro-Inserts



General organisational matters

All standard items are stock items that usually can be despatched within 24 hours after receipt of order. All products are kept absolutely neutral, i.e. no WAJR® article numbers are printed or labelled on the packaging of the products.

As we only supply wholesalers or dealers who promote our products as their own brands, we strictly keep up a policy of neutral packaging. Only batch numbers for reasons of traceability in cases of complaint are attached to the product. For the vials additionally a small schematic drawing of the product is labelled on the front side of the PP-Box to enable identification of the content. Customer specific labelling for free.

We want that consumers of our products are satisfied with them. Therefore everybody is welcome to ask for cost-free samples for testing purposes to evaluate the most appropriate product for his instrument/application with regard to technical suitability, convenience in handling and price-performance ratio. This way you have the opportunity to see and decide before placing an order which product suits best your individual needs.

This table indicates the categories of vials that are compatible with various models of autosamplers. Certain utosamplers require the purchase of optional vial trays and, in few cases, programming upgrades to use all of the vials listed.

An ♦ mark indicates that the vials from this category are compatible with the autosampler in most configurations.

An F mark indicated that a cap having an outer flange is required for the vial to operate properly with the autosampler.

An M mark indicates that a magnetic seal is required for use with the autosampler.

Instrument	Model	Crimp 11mm Vial	Screw 8-425 Vial	Screw 9mm Vial	Screw 10-425 Vial	Screw 13mm Vial 15x45mm	Headspace
Agilent	1050	♦		♦			
	1090A	♦	♦	♦			♦
	1100/1200 Well-plate	♦		♦			
	1100/1200 NanoFlow	♦		♦			♦
	6850ALS	♦					
	7673A/7683	♦					
	7680A SFE/7694/G1888						♦
Model 220							
AI	42 Position Tray	♦					
	60 Position Tray						
AIM	CPS-100/200	♦	♦	♦			
Alcott	718AL/719D	♦	♦	♦			
Alpha M.O.S.	Fox/Prometheus	♦	♦	♦			M
	Kronos	♦	♦	♦			
Antec Leyden	ALEXYS AS 100	♦	♦	♦			
ATAS GL	Focus	♦	♦	♦			M
Beckman Coulter	501/507/System Gold	♦	♦	♦		♦	
Bruker	Map II	♦	♦	♦	♦		
	LC51					♦	
CTC Analytics	LC PAL/GC PAL						
	Combi PAL	♦	♦	♦			M
	HTC PAL/HTS PAL	♦	♦	♦			
	TwinPAL	♦	♦	♦			
	IFC PAL		♦	♦			
DANI	Master AS	♦	♦	♦			
	Master DHS						♦
	ALS-1000/39.80/86.80	♦					
	HSS 39.50/86.50/SPT 37.50						♦
Dionex	AS-HV		♦	♦			
	Ultimate 3000	♦	♦	♦			
	ASI-100/AS50	♦	♦	♦			
	AS-40		♦			♦	
	FAMOS	♦	♦	♦			
Dynatech	LC-241	♦	♦	♦			
Eksigent	NanoLC-AS1	♦	♦	♦			
ESA	540-MT	♦	♦	♦	♦	♦	
	540	♦	♦	♦	♦		
EST	Markelov 9000						♦
	LC-241plus	♦	♦	♦			
	Cobra	♦	♦	♦			
Fisons	A-200S/AS 150/800/8000	♦	♦	♦			
GBC	LC 1650		♦		♦	♦	
GE Healthcare	Ettan A-950	♦	♦	♦			
GE Instruments	Sievers 900		♦	♦			
Gerstel	MPS 2	♦	♦	♦	♦		M
	MPS 3	♦	♦	♦	♦		
Gilson	234/Asted/Aspec	♦	♦	♦			
	235	♦	♦	♦			
	231 XL/232 XL/233 XL	♦	♦	♦			
	215	♦	♦	♦	♦		
	250	♦	♦	♦			
Gynkotek/Softron	GINA 50/160	♦	♦	♦			
HTA	HT310A	♦	♦	♦			
	HT300A	♦					
	HT200H	♦					

Instrument and Vial Compatibility Chart

Instrument	Model	Crimp 11mm Vial	Screw 8-425 Vial	Screw 9mm Vial	Screw 10-425 Vial	Screw 13mm Vial 15x45mm	Headspace
Jasco	851/AS950/1550/1555		F				
	AS-2059/AS2059Plus		F		◆		
	AS-2055/AS/2057		F		◆		
	LEAP CLPAL/GC PAL	◆	◆	◆	◆		
	Combi PAL	◆	◆	◆	◆		
	HTC PAL/HTS PAL	◆	◆	◆	◆		
Hitachi®	AS-1000	◆	◆	◆			
	AS-2000	◆	◆	◆			
	AS-4000	◆	◆	◆			
	Lachrom L-7200/7250	◆	◆	◆			
	Lachrom Elite L-2200	◆	◆	◆			
Perkin Elmer™	Autosystem/AS-2000/	◆	◆	◆		◆	
	Clarus 500/600	◆	◆	◆			
	Integral 4000	◆	◆	◆			
	ISS-100/200/Series 200	◆	◆	◆			
	Model 225	◆	◆	◆			
	HS16/40/120						◆
	LC Plus	◆	◆	◆			
	Turbomatrix HS110						◆
Shimadzu	AOC-8B/9 AOC-14/1400	◆	◆	◆			
	AOC-5000	◆	◆	◆	◆		M
	AOC-20	◆	◆	◆		◆	
	AOC-20S	◆	◆	◆			◆
	HSS-2B/4B						◆
	SIL-2A					◆	
	SIL-2/6A/6B/9A Flange		F		◆		
	SIL-10A		◆	◆	◆		
	SIL-20A	◆	◆	◆	◆		
	SIL-HT/10ADVP	◆	◆	◆	◆		
	LC-2010	◆	◆	◆	◆		
Thermo Scientific	Surveyor™/Accela	◆	◆	◆			
	AS 3000/TraceGC/	◆	◆	◆			
	Surveyor Plus™ Lite	◆	◆	◆			
	TriPlus AS	◆	◆	◆			◆
	TriPlus HS	◆	◆	◆			◆
	TriPlus	◆	◆	◆	◆		◆
Varian	CP-8410	◆	◆	◆	◆	◆	
	Genesis						◆
	CombIPAL	◆	◆	◆	◆		M
	8034/8035/8100/8200	◆	◆	◆			
	9095/9100	◆	◆	◆			
	920-LC/940-LC	◆	◆	◆			
	ProStar 400/410/420/430	◆	◆	◆	◆		
Waters	WISP 48					◆	
	717Plus	◆	◆	◆			
	Alliance 2690	◆	◆	◆	◆		
	Model 2707	◆	◆	◆			
	Model 2767	◆	◆	◆	◆		
	Model 2777	◆	◆	◆	◆		
	Acquity	◆	◆	◆	◆		
	Acquity Sample Organizer	◆	◆	◆	◆		
	NanoAcquity	◆	◆	◆			
	CapLC	◆	◆	◆			
Spark-Holland	Symbiosis/Reliance	◆	◆	◆	◆		
Tosoh®	TSK-8080/AS-8010/AS-8020	◆	F		◆	◆	

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Zhejiang Aijiren Technology Co.,Ltd

No.3 Qusheng Rd, Nianli Town, Quzhou, Zhejiang Province, China

Tel:+86-0570-8067804

Fax:+86-0570-8067803

Email:wajr@aijirenvial.com

Web:www.aijirenvial.com

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