



Agilent Supplies

FOR PerkinElmer ICP-0ES AND ICP-MS SPECTROMETERS



Agilent Technologies



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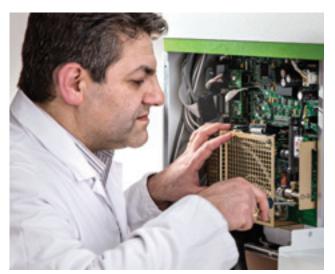


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- High matrix tolerance, wide dynamic range, and effective control of interferences remove uncertainty when analyzing complex samples
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- Matrix tolerance extends into the tens of % TDS range and linear dynamic range up to 11 orders of magnitude
- 7900 ICP-MS delivers superior data quality whatever your application





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FEATURED PRODUCTS

The Agilent OneNeb nebulizer improves performance and simplifies operation

The OneNeb nebulizer is an inert, highefficiency universal nebulizer that is virtually indestructible. OneNeb has superb tolerance to high levels of dissolved solids and most ICP-OES sample matrices, including aggressive acids, hydrofluoric acid digests, and organic solvents.

It is a direct replacement for most other nebulizers, including the conventional glass concentric and inert types used with PerkinElmer ICP-OES instruments, such as GemTip and GemCone. OneNeb is also compatible with most conventional glass cyclonic and inert spray chambers. The OneNeb is rugged and durable with a user-replaceable sample capillary, and is competitive in price with conventional concentric nebulizers.

OneNeb also simplifies method development by solving the challenge of nebulizer selection. Its superb performance with most samples matrices means that you only need OneNeb. This lets you focus on delivering results you can have confidence in, and eliminate system shutdown to swap out the nebulizer when switching between different sample types.

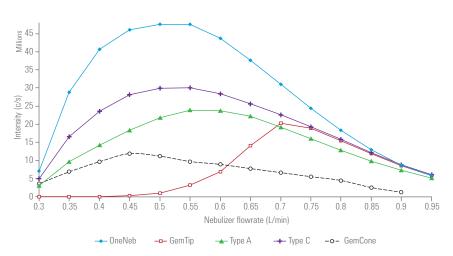


The second- generation Agilent OneNeb nebulizer (8003-0951) improves performance compared to glass concentric and inert types in PerkinElmer Optima ICP-OES instruments.

Improved sensitivity and precision

The OneNeb uses Flow Blurring nebulization, rather than the traditional venturi effect. This creates a fine aerosol with a narrow size distribution, where most droplets are < 10 μ m, enhancing efficiency. With efficient operation over a much wider range of flow rates, OneNeb is up to four times as sensitive as other nebulizers.

The fine aerosol created by OneNeb is also more efficiently desolvated and excited in the plasma, which helps to improve precision, typically less than 1% RSD even at low sample flow rates.



Comparing sensitivity response curves for different nebulizers on a PerkinElmer Optima 8000 ICP-OES. While each nebulizer needs different conditions to achieve optimum sensitivity, Agilent OneNeb provides better sensitivity at all gas flow rates.

Lower detection limits

The tables show detection limits achieved for 5% NaCl using OneNeb with the PerkinElmer Optima 7300 DV ICP-OES. OneNeb improves sensitivity, reduces detection limits, and runs for longer due to reduced blockage when measuring challenging samples that have higher TDS.

With Axial View

| Nebulizer Type | TI 190.800 (nm) | As 193.696 (nm) | Se 196.026 (nm) | Pb 220.353 (nm) |
|-------------------|--------------------|--------------------|--------------------|--------------------|
| OneNeb | 4.3 | 1.4 | 5.7 | 2.8 |
| GemCone | 14.4 | 14.3 | 25.4 | 7.7 |
| GemTip | 14.0 | 13.8 | 22.3 | 4.5 |
| VeeSpray | 9.8 | 19.6 | 21.2 | 3.2 |

Concentrations in µg/L

With Radial View

| Nebulizer Type | Mn 257.610 (nm) | La 379.478 (nm) | Ba 455.403 (nm) | Zn 213.856 (nm) |
|-------------------|--------------------|--------------------|--------------------|--------------------|
| OneNeb | 0.6 | 1.8 | 0.2 | 1.6 |
| GemCone | 0.9 | 5.5 | 0.6 | 7.5 |
| GemTip | 0.8 | 2.7 | 0.2 | 6.2 |
| VeeSpray | 1.3 | 4.7 | 0.4 | 4.2 |

Concentrations in µg/L

Superior TDS tolerance and long-term stability

OneNeb is highly tolerant of dissolved solids, and so you can easily run samples that might cause blockage with conventional nebulizers, such as estuarine water or brine. OneNeb is also highly stable over long-term measurements, with excellent chemical resistance.

LEARN MORE

Evaluating the OneNeb Nebulizer with PerkinElmer Optima 7/8x00 Series ICP-OES (Agilent publication 5991-6507EN)

FEATURED PRODUCTS

The Multimode Sample Introduction System enables simultaneous vapor generation to improve performance and productivity

The Agilent Multimode Sample Introduction System (MSIS) enables simultaneous determination of routine elements using conventional nebulization, and the environmentally sensitive elements, including As, Se, and Hg, using hydride generation, with the same setup.



When used with PerkinElmer ICP-OES systems, the Agilent MSIS (8003-0817) enables simultaneous determination of routine and hydride elements using the same setup. This improves productivity and enables low ppb detection limits for hydride-forming elements.

Save time and eliminate changeover

With a choice of three modes (conventional nebulization, hydride only, or simultaneous hydride and conventional nebulization) routine elements can be determined using the same setup as hydride elements, eliminating changeover. This is more convenient and economical as it avoids the need to measure the hydride-forming elements in a separate measurement using a dedicated hydride system. This also saves time and simplifies your sample analysis workflow by eliminating the need for a second sample digest with prereduction of the sample specifically for hydride determinations.

High performance

MSIS delivers significantly better performance for environmentally sensitive elements, including As, Se, Hg, and other hydride-forming elements, compared to conventional nebulization. This is due to MSIS thin-film hydride technology, which enables low ppb detection limits for these elements.

The table shows detection limits achieved using MSIS with the PerkinElmer Optima 7300 DV ICP-OES. Working in simultaneous mode, detection limits for As, Se, and Hg were improved to low ppb levels, without affecting detection limits for the other elements measured using a concentric nebulizer.

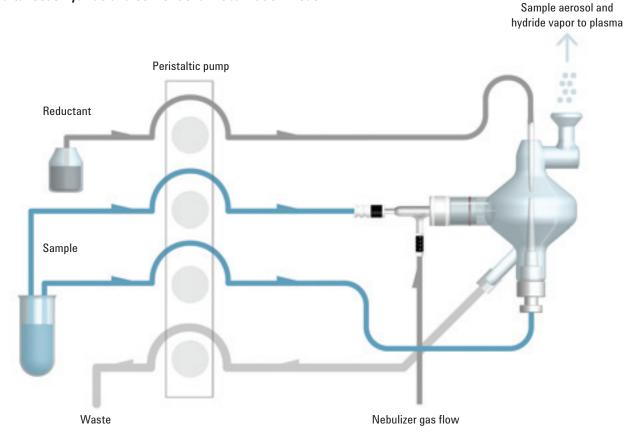
| Element/Wavelength (nm) | Measured with glass concentric nebulizer in nebulization mode | Measured with glass concentric nebulizer in simultaneous mode |
|----------------------------|--|--|
| AI 394.401 | | 5.0 |
| As 193.696 | 11.0 | 1.5* |
| Ca 317.933 | | 2.6 |
| Cd 226.502 | | 0.4 |
| Co 230.786 | | 0.8 |
| Cr 267.716 | | 0.6 |
| Cu 327.393 | | 1.4 |
| Fe 259.939 | | 0.4 |
| Hg 194.168 | 1.3 | 0.2* |
| Li 670.784 | | 0.04 |
| Mg 280.271 | | 0.3 |
| Mn 257.610 | | 0.05 |
| Mo 204.597 | | 2.4 |
| Ni 231.604 | | 1.4 |
| Pb 220.353 | | 3.3 |
| Se 196.026 | 12.0 | 0.5* |
| V 292.402 | | 0.9 |
| Zn 213.857 | | 0.4 |

*Measured using hydride determination

Concentrations in µg/L

Operating principle of the MSIS

Simultaneous hydride and conventional nebulization mode



Agilent MSIS is based on a conventional glass cyclonic spray chamber, fitted with vertically opposed tubes in the center. Routine samples are introduced through the nebulizer in the usual manner. To enable determination of hydride- or vapor-forming elements such as As, Se, or Hg, the sample and reductant are introduced through the vertically opposed tubes. The volatile hydride species created by the reactions are stripped from the mixed solution and swept into the plasma with the sample aerosol, enabling simultaneous determination with conventional nebulization.

LEARN MORE

MSIS sample introduction for Simultaneous Hydride Analysis and Standard Nebulization (Agilent publication 5991-6509EN)

AGILENT SUPPLIES FOR PerkinElmer ICP-OES



ICP-OES torch, demountable, 1-slot, 8003-0344



ICP-OES torch, demountable, 1-slot, 8003-0346



ICP-OES torch, demountable, 3-slot, 8003-0347



ICP-OES torch, demountable, short, 8003-0348





O-ring kit, for vertical torch 8003-0361

ICP-OES SUPPLIES

ICP-OES Torches

Available in a wide range of styles from 0 to 3 slots, depending on instrument and application needs. The slots in the side of the torch allow the plasma to be viewed through the slot and not the quartz. This ensures the best performance, while maintaining optimum shielding of the plasma from entrained air. Torches without slots are recommended for fusions and high TDS samples. One-slot torches are the standard torch for aqueous solutions. Three-slot torches are typically used for organic analysis.

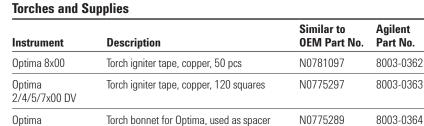
Torches and Supplies

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|------------------------------|--|----------------------------|---------------------|
| Optima 8x00 | Torch, demountable, 1-slot, using 1-piece quartz tubing for plasma and auxiliary gas flow | N0780130 | 8003-0344 |
| Optima 8x00 | Torch, demountable, 0-slot, using 1-piece quartz tubing for plasma and auxiliary gas flow | N0780133 | 8003-0470 |
| Optima 8x00 | Torch, demountable, 3-slot, using 1-piece quartz tubing for plasma and auxiliary gas flow | N0780132 | 8003-0345 |
| Optima 2/4/5/7x00 DV | Torch, demountable, 1-slot, using 1-piece quartz tubing for plasma and auxiliary gas flow | N0770338 | 8003-0346 |
| Optima 2/4/5/7x00 DV | Torch, demountable, 3-slot, using 1-piece quartz tubing for plasma and auxiliary gas flow | N0772005 | 8003-0347 |
| Optima 2/4/5/7x00 DV | Torch, demountable, 0-slot, short version, using 1-piece quartz tubing for plasma and auxiliary gas flow | N0770344 | 8003-0348 |
| Optima 8x00 | O-ring kit, complete, includes all O-rings used in the demountable torch | N0780437 | 8003-0359 |
| Optima 2/4/5/7x00 DV | O-ring kit, complete, includes all O-rings used in the demountable torch | N0770437 | 8003-0360 |
| Optima 4300V/ 5300V/7300V | O-ring kit, complete, for vertical torch | N0770916 | 8003-0361 |

(Continued)

AGILENT SUPPLIES FOR PerkinElmer ICP-OES





between torch and RF coil



Torch igniter tape, copper, squares, 8003-0363

Quick Change Torch Modules

Complete torch and sample introduction module including single-slot demountable torch, mounting block, 2 mm alumina injector, spray chamber and nebulizer.

Having a second module provides a convenient and quick way to change the sample introduction system when switching between different sample types.

2/4/5/7x00 DV

Quick Change Torch Modules

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|---------------------------------|---|----------------------------|---------------------|
| Optima 8x00 | Quick-change torch module Includes glass cyclonic spray chamber and concentric nebulizer | N0780607 | 8003-0336 |
| Optima 8x00 | Quick-change torch module Includes inert Scott spray chamber and GemTip Cross-Flow II nebulizer | N0780606 | 8003-0339 |
| Optima 2x00/4x00/5x00/7x00/8x00 | Mounting block, for quick-change torch, does not include torch, injector, spray chamber, or nebulizer | N0770600 | 8003-0338 |
| Optima 2x00/4x00/5x00/7x00 | Quick-change torch module Includes inert glass cyclonic spray chamber and concentric nebulizer | N0770607 | 8003-0337 |
| Optima 2x00/4x00/5x00/7x00 | Quick-change torch module Includes Scott spray chamber and GemTip Cross-Flow II nebulizer | N0770606 | 8003-0340 |
| Optima 4300V/5300V/7300V/DV | Quick-change torch module for HF analysis Includes GemCone high dissolved solids nebulizer, alumina 2.0 mm id injector, quartz 3-slot torch, HF-resistant baffled cyclonic spray chamber. | N0770911 | 8003-0342 |
| Optima 4300V/5300V/7300V | Quick-change torch module for oil analysis. Includes GemCone nebulizer, alumina 1.2 mm id injector, quartz 3-slot torch, baffled cyclonic spray chamber. | N0770910 | 8003-0343 |



Injector, alumina, 1.2 mm id, 8003-0365



Injector, alumina, 2.0 mm id, 8003-0366



Top: Injector, quartz, 2.0 mm id, 8003-0374 Bottom: Injector, quartz, 0.8 mm id, 8003-0372

TIPS & TOOLS

Alumina injectors are corrosionresistant to all mineral acids, including HF and aqua regia, but they can also be used with less volatile organic solvents, e.g., xylene. The 2.0 mm id alumina injector is the standard injector, but a range of other sizes are available.

TIPS & TOOLS

Quartz injectors are recommended for organic solvents and non-HF matrices. Use narrow-bore injectors for more volatile organic solvents such as gasoline.

Torch Injectors

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|-----------------------------------|---|----------------------------|---------------------|
| Optima 8x00 | Injector, alumina, 2.0 mm id | N0781014 | 8003-0366 |
| Optima 8x00 | Injector, quartz, 2.0 mm id | N0781050 | 8003-0370 |
| Optima 8x00 | Injector, quartz, 3.0 mm id | N0781017 | 8003-0371 |
| Optima 8x00 | Injector, alumina, 1.2 mm id | N0781015 | 8003-0952 |
| Optima 8x00 | Injector, alumina, 1.2 mm id (entire length of tube) | N0781007 | 8003-0365 |
| Optima 8x00 | Injector, quartz, 1.2 mm id | N0781019 | 8003-0369 |
| Optima 8x00 | Injector, quartz, 0.8 mm id | N0781018 | 8003-0368 |
| Optima 2x00/4x00/ 5x00/7x00 DV | Injector, alumina, 2.0 mm id | N0775177 | 8003-0453 |
| Optima 2x00/4x00/ 5x00/7x00/DV | Injector, quartz, 2.0 mm id | N0775014 | 8003-0374 |
| Optima 2x00/4x00/ 5x00/7x00 DV | Injector, quartz, 3.0 mm id | N0775224 | 8003-0375 |
| Optima 2x00/4x00/ 5x00/7x00 DV | Injector, alumina, 1.2 mm id (entire length of tube) | N0776093 | 8003-0367 |
| Optima 2x00/4x00/ 5x00/7x00 DV | Injector, quartz, 1.2 mm id | N0775226 | 8003-0373 |
| Optima 2x00/4x00/ 5x00/7x00 | Injector, quartz, 0.8 mm id | N0775225 | 8003-0372 |

Injector Support Adaptors

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--|--|----------------------------|---------------------|
| Optima 4300V/ 5300V/7300V | Injector support adaptor, bottom, for cyclonic spray chambers | N0771526 | 8003-0376 |
| Optima 4300V/ 5300V/7300V | Injector support adaptor, top, for cyclonic spray chambers | N0771527 | 8003-0377 |
| Optima 2x00/4x00/ 5x00/7x00/DV/8x00 | O-ring kit, for injector support adapter | N0770438 | 8003-0378 |



OneNeb inert concentric nebulizer, 8003-0951



Nebulizer, GemCone, 8003-0321



Sample capillary adapter, 8003-0322



Nebulizer, GemTip, Cross-Flow II, 8003-0325

| Optima 2x00/ 4x00/5x00/ 7x00 DV/8x00 | Nebulizer, OneNeb, inert concentric nebulizer Includes sample connector and quick- release gas connector. Ideal for routine | Not Applicable | 8003-0951 |
|---|--|----------------|------------|
| | analysis of samples up to 25% TDS with good precision and better sensitivity than a SeaSpray; inert construction makes it suitable for most solution types. OneNeb nebulizer requires an end cap (8003-0335) for use with the Scott spray chamber | | |
| Optima 2x00/ 3x00 XL/ 3x00 DV/ 3000SCX/ 4x00/5x00/ 7x00/8x00 | Nebulizer, Conikal Includes Ezyfit sample connector (0.75 mm id x 700 mm) and EzyLok gas connector. For routine analysis of organic solvents and samples to 5% TDS. | N0777487 | 2010106800 |
| Optima 2x00/ 4x00/5x00/ 7x00/8x00 | Nebulizer, GemCone GemCone nebulizers require an end cap for Scott spray chambers. | N0770358 | 8003-0320 |
| Optima 2x00/ 4x00/5x00/ 7x00/8x00 | Nebulizer, GemCone, high dissolved solids For samples (up to 20%). Allows you to handle samples with higher dissolved solids concentration than a Cross-Flow nebulizer. GemCone nebulizers require an end cap (8003-0335) for use with Scott spray chambers. | N0690670 | 8003-0321 |
| Optima 2x00/ 4x00/5x00/ 7x00/8x00 | Sample capillary adapter, for GemCone nebulizer | N0371505 | 8003-0322 |
| Optima 2x00/ 4x00/5x00/ 7x00/8x00 | Tubing, quick-disconnect with Swagelok, for GemCone nebulizer | N0770336 | 8003-0324 |
| Optima 8000 | Nebulizer, GemTip, Cross-Flow II, for analysis of strong mineral acids and samples with less than 5% dissolved solids. Features chemically resistant GemTips made of sapphire and ruby in a chemically resistant end cap. | N0780546 | 8003-0325 |
| Optima 2x00/ 4x00/5x00/7x00 | Nebulizer, GemTip, Cross-Flow II, for analysis of strong mineral acids and samples with less than 5% dissolved solids. Features chemically resistant GemTips made of sapphire and ruby in a chemically resistant end cap. | N0770546 | 8003-0326 |

(Continued)





GemTip Cross-Flow II nebulizer tip kit, 8003-0328



Nebulizer, concentric, U-series, SeaSpray, 2.0 mL/min uptake, 8003-0461



Nebulizer, Mira Mist, PEEK, 8003-0974

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|---|---|----------------------------|---------------------|
| Optima 8x00 | Nebulizer, GemTip, Cross-Flow II tip kit Includes clear sapphire and red ruby argon tips for maximum corrosion resistance. The tips are constructed of PEEK with the gem insert. | N0780676 | 8003-0328 |
| Optima 2x00/ 4x00/5x00/7x00 | Nebulizer, GemTip, Cross-Flow II tip kit Includes clear sapphire and red ruby argon tips for maximum corrosion resistance. The tips are constructed of PEEK with the gem insert. | N0690676 | 8003-0327 |
| Optima | Replacement Cross-Flow nebulizer tips, GemTip Not compatible with Cross-Flow II nebulizers | N0580624 | 8003-0454 |
| Optima 5/7/8x00 | O-ring kit for GemTip, Cross-Flow II nebulizers Includes all O-rings used in the Cross-Flow and Cross-Flow II nebulizers. | N9300067 | 8003-0456 |
| Optima 2x00/ 3x00/4x00/ 5x00/7x00/8x00 | Nebulizer, type C1, 1.0 mL/min uptake For samples with high dissolved solids | 00472022 | 8003-0461 |
| Optima 2x00/ 3x00/4x00/ 5x00/7x00/8x00 | O-ring, small, for type A/C/K nebulizers | 00473194 | 8003-0464 |
| Optima 2x00/ 3x00/4x00/ 5x00/7x00/8x00 | Nebulizer, Mira Mist, PEEK Includes 0.5 m sample capillary (0.044 inch od x 0.018 inch id) and gas connector. For routine analysis of samples to 20% TDS (not recommended for aggressive acids or organic solvents). | N0775330 | 8003-0974 |
| Optima 2x00/ 3x00 XL/ 3x00 DV/ 3000SCX/ 4x00/5x00/ 7x00/8x00 | Nebulizer, concentric, U-series, SeaSpray, 2.0 mL/min uptake For routine analysis of samples to 20% TDS. Includes UniFit sample connector (0.75 mm id x 700 mm) and EzyLok gas connector. | N0775345 | G8010-60255 |

Multimode Sample Introduction System (MSIS)

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--|---|----------------------------|---------------------|
| Optima 2x00/4x00/5x00/ 7x00 DV/8x00 | Multimode Sample Introduction System (MSIS) Provides simultaneous vapor generation of environmentally sensitive elements including As, Se, and Hg with low µg/L detection limits. It provides better performance than conventional nebulization through thin-film hydride technology, while offering a choice of three modes that eliminates changeover and allows routine and hydride elements to be determined using the same setup. | Not Applicable | 8003-0817 |
| | Peristaltic pump tubing, black/black, 12/pk. Required to pump reagents to MSIS. | Not Applicable | 3710027200 |
| | Peristaltic pump tubing, black/white, 12/pk. Required to pump waste from MSIS. | N8122012 | 3710068900 |

Spray Chambers

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|------------------------------------|---|----------------------------|---------------------|
| Optima 2x00/4x00/5x00/7x00/8x00 | Tracey, single-pass, cyclonic spray chamber for high-sensitivity analyses, 50 mL, borosilicate glass, 0-ring-free | N0775351 | 8003-0329 |
| Optima 2x00/4x00/5x00/7x00/8x00 | Twister, double-pass, cyclonic spray chamber with helix nebulizer seal, 50 mL, borosilicate glass, 0-ring-free | N0775352 | 8003-0330 |
| Optima 2x00/4x00/5x00/7x00/8x00 | Tracey, single-pass, TFE cyclonic spray chamber for high-sensitivity analyses, with helix nebulizer seal, 50 mL, inert (HF-resistant), 0-ring-free | N0777496 | 8003-0331 |
| Optima 2x00/4x00/5x00/7x00/8x00 | Cyclonic spray chamber adapter | N0770614 | 8003-0332 |
| Optima 2x00/4x00/5x00/7x00/8x00 | Drain cap assembly, for drain bottle assembly | N0690271 | 8003-0333 |
| Optima 2x00/4x00/5x00/7x00/8x00 | Scott spray chamber assembly made from corrosion-resistant Ryton material, inert to most mineral acids including HF, aqua regia, and most organic solvents; helps to minimize pulsation from the peristaltic pump | N0770357 | 8003-0334 |
| Optima 2x00/4x00/5x00/7x00/8x00 | End cap, allows use of concentric nebulizers with Scott spray chamber | N0680504 | 8003-0335 |
| Optima 2x00/4x00/5x00/7x00/8x00 | Spray chamber drain fitting with tubing and drain adapter, to pump out waste solution through spray chamber drain (does not include peristaltic pump tubing) | N0690268 | 8003-0457 |
| Optima 2x00/4x00/5x00/7x00/8x00 | Tubing, PTFE, 1 mm id, for spray chamber drain, 12/pk | N8221152 | 8003-0460 |
| Optima 2x00/4x00/5x00/7x00/8x00 | Tracey single-pass, cyclonic spray chamber for high-sensitivity analyses, 50 mL, borosilicate glass, with bung fitting for nebulizer | N0776052 | 8003-0462 |
| Optima 2x00/4x00/5x00/7x00 DV/8x00 | Nebulizer adaptor, 16/6, for spray chambers that have a bung fitting for the nebulizer, not compatible with spray chambers that use the Helix seal | N0776006 | 8003-0953 |
| Optima 5/7/8x00 | End cap O-ring, for spray chamber with type A/C/K nebulizers | 09902033 | 8003-0463 |



Multimode Sample Introduction System (MSIS), 8003-0817



Scott spray chamber assembly, 8003-0334



End cap, for concentric nebulizers with Scott spray chamber, 8003-0335

AGILENT SUPPLIES FOR PerkinElmer ICP-OES



Top: Window, radial, 8003-0472 Bottom: Window, axial, 8003-0385



Window tube, 8003-0386



O-ring, for dual-view radial purge tube, 8003-0388



O-ring for dual-view axial purge window, 8003-0389





O-ring for dual-view radial purge tube, 8003-0391



O-ring for dual-view axial purge window, 8003-0392

Purge Extension Windows

The axial view purge extension window fits into the purge extension between the torch and the optics.

The radial view purge extension is a replaceable tube that fits into the mount between the torch and the optics for the radial view.

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--|---|----------------------------|---------------------|
| Optima 2x00/7000/8000 | Window, dual-view, axial, quartz | 09992731 | 8003-0383 |
| Optima 2x00/7000/8000 | Window tube, dual-view, radial, short tube, quartz | N0690672 | 8003-0384 |
| Optima 3x00/4x 00/5x00/ 7100/7200/7300 DV/8300 | Window, dual-view, axial, quartz | N0771116 | 8003-0385 |
| Optima 5x00/7100/ 7200/7300 DV/8300 | Window tube, dual-view, radial, quartz | N0770944 | 8003-0386 |
| Optima 3000/3000 SCR/3x00 RL/4300V/5300V/7300V | Window tube, radial view | N0581497 | 8003-0387 |
| Optima 3000/3000 SCR/ 3x00 RL/4300V/ 5300V/7300V | Purge extension, ceramic | N0581455 | 8003-0394 |
| Optima 4x00 DV/5x00 DV Pre November 2004 | Window, dual-view radial | N0770322 | 8003-0472 |
| Optima 5x00/7100/7200/ 7300 DV/8300 | O-ring, for dual-view radial purge tube | 09200064 | 8003-0388 |
| Optima 5x00/7100/7200/ 7300 DV/8300 | O-ring, for dual-view axial purge window | 09902143 | 8003-0389 |
| Optima 5x00/7100/7200/ 7300 DV/8300 | O-ring, for torch clamp on vertical torch module | 09902155 | 8003-0390 |
| Optima 2100/7000/8000 | O-ring, for dual-view radial purge tube | 09921036 | 8003-0391 |
| Optima 2100/7000/8000 | O-ring, for dual-view axial purge window | 09921062 | 8003-0392 |
| Optima 2100/7000/8000 | O-ring, purge outlet | 09921057 | 8003-0393 |

Peristaltic Pump Tubing

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|-----------------|--|----------------------------|---------------------|
| Optima 5/7/8x00 | Peristaltic pump tubing, black/black, 12/pk. Required to pump reagents to MSIS. | 09908587 | 3710027200 |
| Optima 5/7/8x00 | Peristaltic pump tubes, PVC, 2 stop, red/red, for drain, 12/pk | 09908585 | 8003-0459 |

RF Load Coils and Accessories

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|-------------------------------|---|----------------------------|---------------------|
| Optima 2x00/4x00/5x00/7x00 DV | Load coil | N0775300 | 8003-0379 |
| Optima 4300V/5300V/7300V | Load coil | N0771536 | 8003-0380 |
| Optima 5/7/8x00 | Nylon igniter standoff | 09989859 | 8003-0381 |
| | lgniter spark gap assembly, for type II demountable torch | N0680275 | 8003-0382 |

Miscellaneous Supplies

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--------------------------------------|---|----------------------------|---------------------|
| Optima 3x00 | Filter, air, for RF generator inlet | 02509115 | 8003-0455 |
| Optima 2x00/3x00/ 4x00 /5x00/7x00 | Filter cartridge, cooling water | 09904846 | 8003-0469 |
| Optima | ICP-OES chiller coolant mix, 5 half-gallon bottles | N0776099 | 8003-0473 |

TIPS & TOOLS

For a listing of supplies for AS-90/90A/90plus/91/93plus/S10 Autosamplers, please see the *Agilent supplies for PerkinElmer AA spectrometers catalog*, publication number 5991-6431EN

Visit us online at www.agilent.com/chem/PESpectroSupplies



Load coil, 8003-0379



Load coil, 8003-0380

AGILENT SUPPLIES FOR PerkinElmer ICP-MS

ICP-MS SUPPLIES

Nebulizers and Supplies

| | Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|---|------------------------------------|---|----------------------------|---------------------|
| | ELAN 9000/ 6xX00/DRC/ NexION | Nebulizer, glass, concentric, type C3, for samples that have high TDS, argon flow, 1 L/min, uptake 3 mL/min | N8102011 | 8003-0475 |
| Nebulizer, glass, concentric, type K3, 8003-0476 | | Nebulizer, GemClean Cross-Flow II with an end cap, a GemTip clear sapphire sample tip and a GemTip red ruby argon tip, optimized for ICP-MS (0.009 and 0.013 inch orifices), specially manu- factured and cleaned for ultratrace analysis | N8120516 | 8003-0483 |
| | ELAN 9000/ 6xX00/DRC | Nebulizer, quartz, type A3, high-sensitivity, for ultra-trace applications, argon flow, 1 L/min, uptake 3 mL/min | WE024371 | 8003-0477 |
| Clip for type A/C/K nebulizers, 8003-0480 | NexION | Nebulizer, quartz, type A0.5, high-sensitivity, for ultra-trace applications, argon flow, 1 L/min, uptake 0.5 mL/min | N8145011 | 8003-0478 |
| | | Nebulizer, glass, type C0.5, for samples that have high TDS, argon flow, 1 L/min, uptake 0.5 mL/min | N8145012 | 8003-0479 |
| | | Nebulizer, glass, concentric, type K3, for samples that have high TDS, argon flow, 1 L/min, uptake 3 mL/min | N0681574 | 8003-0476 |
| | ELAN 9000/ | Clip for type A/C/K concentric nebulizers | N0777460 | 8003-0480 |
| Sample inlet fitting for type A/C/K nebulizers, 8003-0481 | 6xX00/DRC/ NexION | Sample inlet fitting for type A/C/K concentric nebulizers, 4 inch x 0.020 inch id, 0.062 inch od, flanged onto female CTFE fitting, with male barb CTFE fitting | N8145016 | 8003-0481 |
| | ELAN 9000/ 6xX00/DRC | Connector, low-dead-volume, PEEK, for type A/C/K concentric nebulizer, requires 0.062 inch (1.59 mm) od tubing | WE024372 | 8003-0482 |
| | ELAN 9000/ 6xX00/DRC/ NexION | Nebulizer, U-series, MicroMist micro-uptake, glass, concentric, uptake 0.4 mL/min, with EzyFit connector with 700 mm x 0.50 mm id x 1.3 mm od sample tubing | N0775341 | 8003-0489 |
| Connector, low-dead-volume, PEEK, 8003-0482 | | | | (Continued) |

(Continued)



Nebulizer, U-series, MicroMist micro-uptake, 8003-0489

Nebulizers and Supplies



Nebulizer, OpalMist PFA, concentric, 8003-0500



Nebulizer, PFA-ST PTFE ultra clean, 8003-0505



Nebulizer, MicroMist, micro-uptake, 8003-0589



Capillary, PTFE, for ST nebulizer, 8003-0509

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|------------------------------------|---|----------------------------|---------------------|
| ELAN 9000/ 6xX00/DRC/ NexION | Nebulizer, U-series, SeaSpray, concentric, uptake 2.0 mL/min, with EzyFit connector with 700 mm x 0.50 mm id x 1.3 mm od sample tubing | N0775340 | 8003-0490 |
| ELAN 9000/ 6xX00/DRC/ NexION | Nebulizer, U-series, SeaSpray, concentric, uptake 0.4 mL/min, with EzyFit connector with 700 mm x 0.50 mm id x 1.3 mm od sample tubing | N0777484 | 8003-0492 |
| ELAN 9000/ 6xX00/DRC/ NexION | Nebulizer, OpalMist PFA, concentric, uptake 0.4 mL/min, for high-precision analyses requiring high chemical resistance to HF, alkalis, and organics. Also ideal for trace analyses. | N0777485 | 8003-0500 |
| ELAN 9000/ 6xX00/DRC/ NexION | Nebulizer, PFA-ST3, PTFE, microflow, high performance, clog resistant and chemically inert nebulizer for ICP-MS | N8145101 | 8003-0507 |
| ELAN 9000/ 6xX00/DRC/ NexION | Nebulizer, PFA-ST PTFE ultra clean, with exchangeable capillaries to provide flow rates from 100-400 µL/min | N8122192 | 8003-0505 |
| ELAN 9000/ 6xX00/DRC/ NexION | Nebulizer, MicroMist, micro-uptake, glass, concentric, uptake 0.2 mL/min, high perfor- mance for small sample volumes, with EzyFit connector with 0.50 mm id x 700 mm x 1.3 mm od sample tubing | N0775342 | 8003-0589 |
| ELAN 9000/ 6xX00/DRC/ NexION | Nebulizer, concentric, U-series, SeaSpray, 1.0 mL/min uptake with EzyFit connector with 700 mm x 0.50 mm id x 1.3 mm od sample tubing | N0774069 | 8003-0964 |
| | Obstruction removal kit, for PFA nebulizers | N8145236 | 8003-0508 |
| | Capillary, PTFE, for ST nebulizer, 1.0 mm id, uptake 1 mL/min | N8145138 | 8003-0509 |
| | Capillary, PTFE, for ST nebulizer, 0.5 mm id, uptake 0.4 mL/min | N8122384 | 8003-0510 |
| | Sample inlet (UniFit) fitting for U-series concentric glass nebulizer, 0.75 mm id x 700 mm x 1.3 mm od | N0774077 | G8010-80035 |

(Continued)



Fitting, male barb, CTFE, 8003-0502



Fitting, female barb, CTFE, 8003-0503



Sample capillary, PTFE, 8003-0504



Union, CTFE, for PFA-ST nebulizer, 8003-0506

Nebulizers and Supplies

| Description | Similar to OEM Part No. | Agilent Part No. |
|--|----------------------------|---------------------|
| EzyLok kit for nebulizer gas side arm Includes EzyLok connector for 4 mm tubing, EzyLok 6 mm hose adaptor and nebulizer hose clip. | N0777413 | 9910127800 |
| Cross-Flow II replacement GemTips, constructed of PEEK for maximum corrosion resistance, orifice sizes color-coded, argon, 0.23 mm (0.009 inch) ruby red, sample, 0.34 mm (0.013 inch) clear sapphire | N8120515 | 8003-0484 |
| Ferrule kit, for Cross-Flow II nebulizer Includes sample and argon ferrules, suits all GemClean Cross-Flow II nebulizers after September 1998. | N0680612 | 8003-0486 |
| Ferrule, argon, for Cross-Flow II nebulizer | 09920515 | 8003-0485 |
| Ferrule, sample, for Cross-Flow II nebulizer, suits all GemClean Cross-Flow II nebulizers after September 1998 | 09920518 | 8003-0488 |
| Sample inlet (UniFit) fitting for U-series concentric glass nebulizer, 0.75 mm id x 700 mm x 1/16 inch od | N0774080 | 8003-0493 |
| Clip, for nebulizer pressure hose, 10/pk | N0773197 | 8003-0495 |
| Fitting, male barb, chlorotrifluoroethylene (CTFE), for sample inlet fitting used with type A/C/K nebulizers | N8145017 | 8003-0502 |
| Fitting, female barb, chlorotrifluoroethylene (CTFE), for sample inlet fitting used with type A/C/K nebulizers | N8145018 | 8003-0503 |
| Sample capillary, PTFE, 0.062 inch od, 0.020 inch id, for sample inlet fitting used with type A/C/K nebulizers | CT-0022T-10 | 8003-0504 |
| Union, CTFE, for PFA-ST nebulizer, connects to UltraClean sampler probe | N8122355 | 8003-0506 |



Spray chamber drain fitting, 8003-0501



Spray chamber, baffled, glass, 8003-0515





Spray chamber, baffled, glass, 8003-0514

Spray Chambers and Supplies

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--------------------------------------|--|----------------------------|---------------------|
| ELAN 9000/6xX00/ DRC/NexION | Spray chamber drain fitting, 24 inch x 0.030 inch id, 0.062 inch od | N8145015 | 8003-0501 |
| ELAN DRC/ DRC Plus/DRC II | Spray chamber, baffled, glass, cyclonic, with ball-joint, for ball-joint injectors | N0773196 | 8003-0515 |
| ELAN 9000/6xX00/ DRC/NexION | O-ring, for baffled quartz cyclonic spray chamber (PTFE O-ring type) with ball-joint | 09210011 | 8003-0516 |
| ELAN 9000/ 6xX00/DRC/ NexION | End cap, for Cross-Flow II nebulizer, suits all GemClean Cross-Flow II nebulizers after September 1998 | N8122239 | 8003-0487 |
| ELAN | Spray chamber with auxiliary gas port, 7 mm baffle, quartz, cyclonic, drain line included, connects directly to ESI injectors | N0777034 | 8003-0519 |
| ELAN 9000/6x00/ 5x00/DRC-e | Spray chamber, glass, cyclonic, O-ring-free | N0775350 | 8003-0520 |
| ELAN 9000/6x00/ 5x00/DRC-e | Spray chamber, water-cooled, glass, cyclonic, O-ring-free | N0775354 | 8003-0521 |
| ELAN 9000/6x00/ 5x00/DRC-e | Connector, EzyLok, for jacketed spray chamber | N0774101 | 8003-0496 |
| NexION/ELAN 9000/ 6x00/5x00/DRC-e | Scott spray chamber, HF-resistant | N8120124 | 8003-0522 |
| NexION/ELAN 9000/ 6x00/5x00/DRC-e | O-ring, large, for Scott spray chamber | WE013060 | 8003-0523 |
| NexION/ELAN 9000/ 6x00/5x00/DRC-e | Retaining ring, for Scott spray chamber | WE014081 | 8003-0524 |
| ELAN 9000/6x00/ DRC | Mounting for cyclonic spray chamber | WE014034 | 8003-0588 |
| NexION | Drain tubing, 1/16 inch od, 0.038 inch id PTFE tubing | 02506495 | 8003-0605 |
| NexION | Spray chamber, baffled, glass, cyclonic, with ball-joint, for ball-joint injectors | N8145014 | 8003-0514 |
| NexION | Spray chamber, high purity, quartz, cyclonic, O-ring-free, provides excellent sensitivity and stability with low background | N8145120 | 8003-0517 |

(Continued)

AGILENT SUPPLIES FOR PerkinElmer ICP-MS

| | Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|---------------------------------|------------|---|----------------------------|---------------------|
| | NexION | Spray chamber, borosilicate glass, cyclonic, O-ring-free | N8145119 | 8003-0518 |
| | NexION | Spray chamber, baffled quartz, cyclonic (PTFE 0-ring type) with ball-joint | N8145013 | 8003-0614 |
| | NexION | Spray chamber, UltraClean, low volume Scott-style PFA spray chamber, for concentric nebulizers with PFA end cap | N8142000 | 8003-0946 |
| | NexION | Spray chamber, UltraClean, low volume Scott-style PFA spray chamber, for concentric nebulizers. Requires PFA injector assembly and PFA end cap | N8122356 | 8003-0947 |
| | NexION | End cap, for low volume Scott-style PFA spray chamber, for concentric nebulizer | N8122357 | 8003-0948 |
| Doray chamber, | NexION | IsoMist temperature controlled spray chamber. Provides the benefits of a temperature-controlled ICP sample introduction system in a compact, convenient package. Temperature range is between -10 °C and +60 °C in 1 °C increments. Includes software, polymer coated PFA double-pass spray chamber, torch interface, and mounting kit. | N8141426 | 8003-0963 |
| | | Helix seal for O-ring-free spray chamber, suits any ICP spray chamber that uses the Helix fitting to secure the nebulizer in the side arm | N0777439 | G8010-80042 |
| <i>inking</i> on 300D ent | | Helix locking screw for O-ring-free spray chamber, suits any ICP spray chamber that uses the Helix fitting to secure the nebulizer in the side arm | N0777438 | G8010-80043 |

Spray Chambers and Supplies



IsoMist temperature controlled spray chambe 8003-0963

LEARN MORE

A Complete Method for Drinking Water Analysis Using Nexion 300D ICP-MS to EPA 200.8 (Agilent publication 5991-6510EN).

Torch Injectors

| | Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--|--|--|----------------------------|---------------------|
| Injector, alumina, 8003-0530 | NexION/ELAN DRC-e/ 9000/6x00/5000/500 | Injector, alumina, 2.0 mm id | N8126041 | 8003-0530 |
| | NexION/ELAN DRC-e/ 9000/6x00/5000/500 | Injector, alumina, 1.5 mm id | N8126040 | 8003-0531 |
| Injector, alumina, 8003-0532 | NexION/ELAN DRC-e/ 9000/6x00/5000/500 | Injector, alumina, 0.85 mm id | N8126039 | 8003-0532 |
| injector, aiumina, 8003-0532 | NexION/ELAN DRC/ DRCplus/DRC II | Injector, quartz ball-joint, 2.0 mm id, general purpose, for pass-through ball-joint injector support adapter | WE023948 | 8003-0533 |
| Injector, quartz, 2.0 mm id, 8003-0590 | NexION/ELAN DRC-e/ 9000/6x00/5000 | Injector, quartz, 2.0 mm id | N8125029 | 8003-0590 |
| | NexION/ELAN DRC/ DRCplus/DRC II | Injector, quartz ball-joint, 1.5 mm id, for organics, for pass-through ball-joint injector support adapter | WE027005 | 8003-0534 |
| Injector, quartz ball-joint, 8003-0535 | NexION/ELAN DRC/ DRCplus/DRC II | Injector, quartz ball-joint, 0.85 mm id, for volatile organics, for pass-through ball-joint injector support adapter | WE027030 | 8003-0535 |
| | ELAN DRC/DRCplus/ DRC II | Support adaptor, for twist-type ball-joint injector | WE023951 | 8003-0536 |
| | ELAN DRC II/NexION | Support adaptor, for cassette-type ball-joint injector | W1012406 | 8003-0537 |
| Injector, ball-joint twist-type, 8003-0536 | | | | |

(Continued)



Injector, ball-joint cassette-type, 8003-0537

TIPS & TOOLS

Alumina injectors are compatible with twist-type and cassette torch mounts. They are corrosion-resistant to all mineral acids, including HF and aqua regia, but can also be used with less volatile organic solvents, e.g., xylene. The 2.0 mm id alumina injector is the standard injector, but a range of other sizes are available.

TIPS & TOOLS

Quartz injectors are compatible with twist-type and cassette torch mounts. They are recommended for organic solvents and non-HF matrices. Use narrow-bore injectors for more volatile organic solvents such as gasoline.



Injector assembly, PFA-Quartz, 8003-0539



88000

Injector assembly, PFA-Quartz, 8003-0540



Injector assembly, PFA-Sapphire twist-type, 8003-0541



Injector assembly, PFA-Sapphire cassette-type, 8003-0542



Injector assembly, PFA-Platinum twist-type, 8003-0543



Injector assembly, PFA-Platinum cassette-type, 8003-0544

Torch Injectors

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--|---|----------------------------|---------------------|
| NexION/ELAN DRC-e/ 9000/6x00/5000 | Injector tube, sapphire, 2.0 mm id, demountable injector, for HF-resistant sample introduction system | N0695495 | 8003-0538 |
| NexION/ELAN DRC-e/ 9000/6x00/5000/500 | Injector assembly, PFA-Quartz twist-type, 1.5 mm id | N8122394 | 8003-0539 |
| NexION/ELAN DRC-e/ 9000/6x00/5000/500 | Injector assembly, PFA-Quartz, cassette-type, 1.5 mm id | N8122413 | 8003-0540 |
| NexION/ELAN DRC-e/ 9000/6x00/5000/500 | Injector assembly, PFA-Sapphire twist-type, 1.8 mm id, for high matrix geochemistry and HF applications where low ppt Al is not required | N8122358 | 8003-0541 |
| NexION/ELAN DRC-e/ 9000/6x00/5000/500 | Injector assembly, PFA-Sapphire cassette-type, 1.8 mm id, for environmental, geochemistry and HF applications | N8122411 | 8003-0542 |
| NexION/ELAN DRC-e/ 9000/6x00/5000/500 | Injector assembly, PFA-Platinum twist-type, 2.0 mm id | N8122359 | 8003-0543 |
| NexION/ELAN DRC-e/ 9000/6x00/5000/500 | Injector assembly, PFA-Platinum cassette-type, 2.0 mm id | N8122412 | 8003-0544 |

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Injector support adapter, twist-type, 8003-0545



Injector support adapter, twist-type, 8003-0546



0-ring kit, for injector support adapter, 8003-0547



Injector support adapter, 8003-0548



O-ring, for injector support adapter, external twist/cassette-type, 8003-0549

O-ring, for injector support adapter, internal twist/ cassette-type, 8003-0551

Torch Injectors

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--|--|----------------------------|---------------------|
| ELAN DRC-e/ 9000/6x00/5000 | Injector support adapter, twist-type, for corrosion-resistant torch and Ryton Scott spray chamber and twist-type torch mounts before April 2005 | N8122007 | 8003-0545 |
| ELAN DRC-e/ 9000/6x00/5000 | Injector support adapter, twist-type, assembled with 0-rings, for corrosion- resistant torch and Ryton Scott spray chamber and twist-type torch mounts before April 2005 | N8120116 | 8003-0546 |
| NexION/ELAN DRC-e/ 9000/6x00/5000/500 | O-ring kit, for injector support adapter | N8120100 | 8003-0547 |
| NexION/ELAN DRC-e/ 9000/6x00/5000/500 | Injector support adapter, for cassette-type non-ball-joint injectors | W1013266 | 8003-0548 |
| NexION/ELAN DRC-e/ 9000/6x00/5000/500 | O-ring, for injector support adapter, internal, twist/cassette-type, 4/pk | 09210011 | 8003-0549 |
| NexION/ELAN DRC-e/ 9000/6x00/5000/500 | O-ring, for injector support adapter, external (large) cassette-type | W1013545 | 8003-0550 |
| NexION/ELAN DRC-e/ 9000/6x00/5000/500 | O-ring, for injector support adapter, external, twist/cassette-type | 09210012 | 8003-0551 |
| ELAN 9000/6x00/DRC | Fitting, Swagelok, stainless steel nut, 1/4 inch | 09903464 | 8003-0593 |
| ELAN 9000/6x00/DRC | Tube fitting | 09903465 | 8003-0594 |



Torch, demountable, quartz, 8003-0552



Torch, demountable, quartz, high-efficiency, 8003-0553

Torches and Supplies

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--------------------------------|--|----------------------------|---------------------|
| NexION/ELAN | Torch, quartz, demountable, used with a fully replaceable sample injector made of fused alumina, quartz, or sapphire (supplied separately) | N8122006 | 8003-0552 |
| ELAN 9000/ 6x00/DRCs/NexION | Torch, demountable, quartz, high- efficiency, for reduced argon gas flow, requires the high-efficiency torch kit for first-time installation | W1008384 | 8003-0553 |
| ELAN 9000 and 6x00 | Torch kit, high-efficiency Includes high-efficiency torch and flow restrictors to enable operation with reduced argon gas flow. | W1007468 | 8003-0554 |
| NexION/ELAN 9000/ 6x00/DRCs | Torch alignment tool, to align the torch in the load coil | WE015554 | 8003-0555 |
| NexION | Mount, for cassette torch, excludes demountable torch and injector | W1037485 | 8003-0556 |
| ELAN 9000/6x00/DRC | O-ring kit, for type II torch | 09903094 | 8003-0591 |





Sampler cone, nickel, large-orifice, 8003-0571



Skimmer cone, nickel, 8003-0572



Skimmer cone, nickel, 1.1 mm orifice, 8003-0573



Skimmer cone, nickel, 0.9 mm orifice, 8003-0574



Hyper skimmer cone, 8003-0579



Screw, for hyper skimmer cone, 8003-0581



O-ring, for sampler cone, 8003-0582



O-ring, for skimmer cone, 8003-0583



Tool, for cone removal, 8003-0586

Interface Cones and Supplies

| Instrument | t Description | | Agilent Part No. | |
|--------------------|--|----------|---------------------|--|
| NexION | Sampler cone, nickel, large-orifice, for high and low sample-uptake conditions | W1033612 | 8003-0571 | |
| NexION | Skimmer cone, nickel | W1026356 | 8003-0572 | |
| NexION | Sampler cone, platinum | W1033614 | 8003-0575 | |
| NexION | Skimmer cone, platinum | W1026907 | 8003-0576 | |
| NexION | Hyper skimmer cone | W1033995 | 8003-0579 | |
| NexION | O-ring, for hyper skimmer cone | 09902123 | 8003-0580 | |
| NexION | Screw, for hyper skimmer cone | 09919737 | 8003-0581 | |
| NexION | Sampler gasket for hyper skimmer cone | W1040148 | 8003-0584 | |
| NexION | Tool, for cone removal | W1034694 | 8003-0585 | |
| ELAN 9000/6x00/DRC | Sampler cone, nickel, 1.1 mm orifice, not compatible with NexION | WE021140 | 8003-0573 | |
| ELAN 9000/6x00/DRC | Skimmer cone, nickel, 0.9 mm orifice, not compatible with NexION | WE021137 | 8003-0574 | |
| ELAN 9000/6x00/DRC | Sampler cone, platinum, not compatible with NexION | WE027802 | 8003-0577 | |
| ELAN 9000/6x00/DRC | Skimmer cone, platinum, not compatible with NexION | WE027803 | 8003-0578 | |
| ELAN 9000/6x00/DRC | O-ring, for sampler cone, 5/pk | N8120511 | 8003-0582 | |
| ELAN 9000/6x00/DRC | O-ring, for skimmer cone, 5/pk | N8120512 | 8003-0583 | |
| ELAN 9000/6x00/DRC | Tool, for cone removal | WE017142 | 8003-0586 | |
| | | | | |

TIPS & TOOLS

Nickel interface cones provide the most economical operation as it is a rugged and long-lasting material. They are recommended for the majority of sample types.

Platinum interface cones provide better resistance to chemical attack and are required for analysis of aggressive acids (e.g. hydrofluoric acid) and other more corrosive sample types.

AGILENT SUPPLIES FOR PerkinElmer ICP-MS



Ion lens, Series II, 8003-0564

Ion Lenses

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--|---------------------------|----------------------------|---------------------|
| ELAN 9000/6x00/DRCs manufactured after January 1998 | Ion lens, Series II | WE018034 | 8003-0564 |
| ELAN 9000/DRCs manufactured after April 2005 | Cassette lens shadow stop | W1013361 | 8003-0566 |

Detectors

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--|--|----------------------------|---------------------|
| NexION | SimulScan dual-stage detector | N8145000 | 8003-0561 |
| ELAN 9000/6x00/DRCs* manufactured prior to April 2005 | SimulScan dual-stage detector, original | N8125001 | 8003-0562 |
| ELAN 9000/6x00/DRCs manufactured after April 2005 | SimulScan dual-stage detector, improved | N8125050 | 8003-0563 |

Sample Introduction Kits

| Description | Similar to OEM Part No. | Agilent Part No. |
|--|----------------------------|---------------------|
| Sample introduction kit (PFA-Platinum), for NexION, HF-resistant. Recommended for analysis of semiconductor-grade chemicals and Si wafer samples. Includes 2 PFA MicroFlow nebulizers, PFA endcap with additional gas port, PFA spray chamber, Pt injector, Pt Shield, and quartz torch. | N8142001 | 8003-0511 |
| Sample introduction kit (PFA-Sapphire), for NexION, HF-resistant. Provides a chemically inert and clean introduction system. Includes a PFA-ST nebulizer, PFA endcap with additional gas port, PFA spray chamber, Sapphire injector, Pt Shield, and quartz torch. | N8142002 | 8003-0512 |
| Sample introduction kit (HF-resistant), for NexION. Includes Scott spray chamber with a Cross-Flow II nebulizer, 2 mm alumina injector, injector support adapter, O-rings, tubing, and connectors. | N8140507 | 8003-0513 |

TIPS & TOOLS

For a listing of supplies for AS-90/90A/90plus/91/93plus/S10 Autosamplers, please see the *Agilent supplies for PerkinElmer AA spectrometers catalog*, publication number 5991-6431EN

AGILENT SUPPLIES FOR PerkinElmer ICP-MS



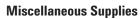
RF load coil assembly, 8003-0559

RF Load Coil

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|----------------------------|-----------------------|----------------------------|---------------------|
| NexION/ELAN 9000/6x00/DRCs | RF load coil assembly | WE021816 | 8003-0559 |

Peristaltic Pump Tubing

| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|--------------------|---|----------------------------|---------------------|
| NexION 300Q/X/D | Peristaltic pump tubing, Santoprene, 1.30 mm, gray/gray, 12/pk | N0777444 | 3710044300 |
| ELAN 9000/6x00/DRC | Peristaltic pump tubing, 0.44 mm id, PVC, green/yellow, flared end, 6/pk | N0773113 | 8003-0595 |



| Instrument | Description | Similar to OEM Part No. | Agilent Part No. |
|---|---|----------------------------|---------------------|
| ELAN 9000/6xX00/ DRC/NexION | ICP-MS chiller coolant mix, 1L bottle | WE016558 | 8003-0474 |
| NexION/ELAN 9000/6x00/ DRCs and ELAN 5000As manufactured after September, 1992 | Power amplifier tube, ceramic | N0695477 | 8003-0560 |
| ELAN 9000/6xX00/DRC | Vacuum pump fluid for Leybold roughing pump | N8122004 | 8003-0567 |
| ELAN 9000/6xX00/ DRC | Vacuum pump fluid, for Varian roughing pump | N8122308 | 8003-0568 |
| NexION | Fomblin, perfluoropolyether (PFPE), GV80 vacuum pump fluid | N8145003 | 8003-0569 |
| | Silicone grease, high vacuum, for vacuum system O-rings | 09905147 | 8003-0570 |



AGILENT CERTIFIED



Why you need Agilent Certified Reference Materials

Agilent inorganic, metallo-organic and biodiesel Certified Reference Materials (CRMs) are manufactured in an ISO 9001, ISO Guide 34 facility and certified in an ISO/IEC 17025 testing laboratory, so you can be sure you're getting the industry's highest quality standards. Agilent CRMs are suitable for AA, MP-AES, ICP-OES, and ICP-MS, and other elemental analysis techniques. You can maximize accuracy and productivity in your lab by using Agilent CRMs with Agilent supplies for your PerkinElmer systems.

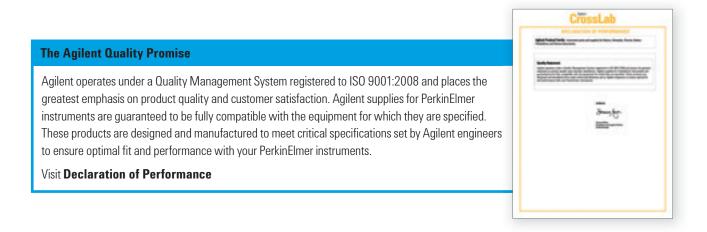
All Agilent spectroscopy CRMs are certified using the National Institute of Standards and Technology (NIST) high-performance spectroscopy protocol. Both the certified concentration and uncertainty values are traceable to NIST Standard Reference Materials to ensure the highest accuracy and complete traceability.

Trace impurities are assayed using an Agilent ICP-MS and reported on the Certificate of Analysis for ICP-OES/ICP-MS standards (trace impurities are not reported for AA standards). The standards have a long shelf life, up to 18 months, supported by long-term stability studies performed as part of the requirement for Guide 34 accreditation.

With Agilent CRMs, your laboratory is assured of quality, purity, and consistency. Find Agilent CRMs for your applications at www.agilent.com/chem/spectroscopystandards

WHY DO YOU NEED AGILENT CRMS?

- Manufactured in an ISO 9001, ISO Guide 34 facility, and certified to ISO/IEC 17025
- Made using only high-purity raw materials, acids, and 18 MOhm de-ionized water
- Directly traceable to NIST Standard Reference Materials
- Assayed with a NIST high-performance ICP-OES method and purity confirmed by ICP-MS
- · Certification ensures higher accuracy and lower uncertainty
- Packed in pre-cleaned HDPE bottles with tamper-evident seals

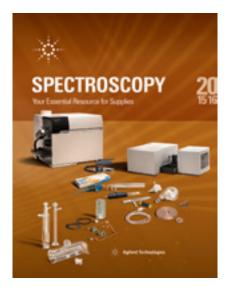


AGILENT CERTIFIED

Certified Performance

All Agilent spectroscopy CRMs include a Certificate of Analysis that confirms ISO conformity and traceability, actual concentration, measurement uncertainty, and other quality control measures.

| CERTIFICATE OF ANALYSIS | | | | | | | | | | | |
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