The Auto Sampler Vial, Cap & Insert System for HPLC and GC
(Glass & Plastic)

UNIVERSAL
VIALS & CAPS

Selection Guide and Catalog

Vials/Caps Designed for

- Agilent® 1100™
- 1050™
- 1090™
- 1200™
- 7673A™
- 7683A™
- 5880™
- 6890™
- Alcott® 73R™
- 719A™
- 719 D™
- Beckman® 501™
- 508 System Gold™
- Marathon™
- Promin™
- CTC®/Leap®
- LC PAL™
- HTC PAL™
- HTS PAL™
- A200S™
- AS200™
- Dionex® Ginx™
- AS 50™
- ASI 100 (T™
- Finnigan® A200S
- HPA™ 300A™
- 300L™
- Pharmacia/LKB® 2157-010™
- Shimadzu® AOC 14/1400™
- AOC 17™
- AOC 20™
- LC10A™
- SIL-2AS™
- SIL-6B™
- SIL-6D™
- SIL-7A™
- SIL-8A™
- SIL-9A™
- SIL-10A™
- SIL-HT™
- SIL-20A (Prominence™) 70 Tray only
- LC 2010™
- Thermo® AS100™
- AS1000™
- AS2000™
- AS3000™
- AS300™ series
- A200LC™
- Spectra System AS1000™
- Spectra System AS3000™
- Spectra System AS3500™
- A200S™
- Varian® ProStar 400™, 410™, 420™
- Prostar 430™
- 8035™
- 8400™
- 8410™
- 8100™
- 8200™
- Marathon™
- Vista™
- Waters® Acquity® UPLC System™
- Alliance™
- Alliance HT™
- Alliance 2790™/2795™
- Vials/Caps Designed for Agilent® 1100™
- 1050™
- Many, Many Others...
DON’T COMPROMISE QUALITY, all glass vials listed in this catalog are made from First Hydolytic Class 1 Borosilicate Schott Tubing. All plastic vials listed in this catalog are made of virgin, medical grade polypropylene or polymethypentene. The MS Compatible vials are made without mold release agents.

CLEAN ROOM 10,000 is where our vials are manufactured in and then packaged in “clean pack” to assure our high hygienic standards. Clean Pack labels can be found on all of our vials that are made in our clean room.

OPTO-ELECTRONIC DEVICES MONITOR EVERY SINGLE GLASS VIAL during the manufacturing process to assure a perfect fit each time and every time. Vials that do not meet the specification are blown out during manufacturing. 100% control over dimensional fit then a final inspection is performed according to DIN/ISO standards.

BATCH AND LOT CONTROL for all vials and caps/septa start with our manufacturing continue through packaging and ends in your lab for added control, traceability and quality.

BONDED CAPS are manufactured with a proprietary process of forming a permanent bond between the silicone rubber of a septa and the polypropylene cap without using any glues or binders. The bonded caps (with optional pre-slit or normal septa) are very useful to minimize missed injections on your auto sampler due to blunt needles. Preventing the septa from “plunging” into the vial saves countless hours of investigation.

“EPP”-EASY PURCHASE PACKS are kit packs that include 100 vials and 100 caps (with septa in them) under one EPP catalog number. The vials are packaged in our normal clean pack (see above) and the caps and septa are packaged in re-sealable plastic baggies. Both the vials and caps, with individual lot control numbers are boxed together in one convenient, easy to purchase pack.

SHORT THREAD VIALS AND CAPS for the Universal Vial are manufactured differently from other vial suppliers for standard 12x32mm vials. Our Universal Vials’ thread ends in the middle of the neck of the vial so that there is still space between the edge of the cap and the shoulder of the vial to accommodate robotic arms of auto samplers. Our caps are designed to provide the right seal with these vials and still allow room for the robotic arm.

WIDE “MOUTH” openings enable easy filling of vials even when using viscous materials.

WIDE RANGE of vial types, caps and septa and micro inserts for the Universal Vial System.

ELIMINATE the need for crimp cap vials and other screw top vials. Inventory only one and save time, money and space. Make it easy to maintain your inventory.

COMPATIBILITY with Leading Auto Samplers for HPLC and GC. Among many others, the MicroSolv Universal Vial and Cap system are warranted to work in the Agilent® 1050, 1090, 7673A, 7683A, 5890, 1100 and 1200, The Waters® Alliance, Aquity, Alliance HT, Alliance 2790/2795, Shimadzu LC-10A, SIL-20A 105 Tray (Prominance), Beckman System Gold (508) and many others. For a complete listing of auto sampler compatibility, visit our website at www.mtc-usa.com/autosamplers.asp

Dimensional Fit of these vials and caps are warranted to work with the above auto samplers and others as listed on our website. All vials are nominally rated as 12x32mm vials actual dimensions are 11.6mm x 32mm. The write on patches and graduations are not calibrated and are for filling and marking purposes only.

VOLUME DISCOUNTS for vials and caps (sold separately) are available and automatically applied where appropriate. Discounts are applied at 10 and 30 packs.

OTHER VIALS AND CAPS ARE AVAILABLE FROM MTC-USA.COM

Use “Webcodes” to find more information on our website directly. Type in the code in the search box in the upper right hand section of every web page and click on the red arrow. Use WebCode: abc123 for a complete list.

Prices and product specifications are subject to change without notice. To be certain of accurate information, call our Customer Service Department. Terms are net 30 days for customers with accounts. F.O.B. Shipping Point. Major credit cards are accepted for all others. All trademarks listed are the property of MicroSolv Technology Corporation and use without permission is forbidden.

To Order Call: 1-732-578-1777 or Order online @ www.mtc-usa.com
Each Easy Purchase Pack (EPP) contains 100 Borosilicate, Universal Screw Top Vials and 100 Caps/Septa of your choice:

- Precision “Fitted” caps have septa installed in them and do not become loose or “mis-fitted” during shipping or handling by the user.
- Ultrasonically “bonded” caps have septa that are welded to the cap for proper seating. This assures that the cap can be applied to the vial properly.
- Bonded/PreSlit/caps have a septa which is partially “pre-slit” as well as “bonded” preventing evaporation and minimizing instrument downtime which can occur due to “septa plunge.”

Choose the type of vial (pictured on the left) with the type of cap (listed in the tables below.)

### Clear Vials & Caps

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>CAP</th>
<th>SEPTA</th>
</tr>
</thead>
<tbody>
<tr>
<td>9502S-0CP</td>
<td>EPP: w/Clear Universal Vials and 9502S-05-B Caps</td>
<td>Precision Fitted</td>
<td>Silicone/PTFE</td>
</tr>
<tr>
<td>9502S-1CP</td>
<td>EPP: w/Clear Universal Vials and 9502S-10C-B Caps</td>
<td>Bonded</td>
<td>Silicone/PTFE</td>
</tr>
<tr>
<td>9502S-3CP</td>
<td>EPP: w/Clear Universal Vials and 9502S-30C-B Caps</td>
<td>Bonded</td>
<td>PreSlit/Silicone/PTFE</td>
</tr>
</tbody>
</table>

### Clear Write-On Vials & Caps

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<tbody>
<tr>
<td>9502S-0WCP</td>
<td>EPP: Write-On Universal Vials and 9502S-05-B Caps</td>
<td>Precision Fitted</td>
<td>Silicone/PTFE</td>
</tr>
<tr>
<td>9502S-1WCP</td>
<td>EPP: Write-On Universal Vials and 9502S-10C-B Caps</td>
<td>Bonded</td>
<td>Silicone/PTFE</td>
</tr>
<tr>
<td>9502S-3WCP</td>
<td>EPP: Write-On Universal Vials and 9502S-30C-B Caps</td>
<td>Bonded</td>
<td>PreSlit/Silicone/PTFE</td>
</tr>
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### Amber Write-On Vials & Caps

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<tbody>
<tr>
<td>9502S-0WAP</td>
<td>EPP: w/Amber Universal Vials and 9502S-05-B Caps</td>
<td>Precision Fitted</td>
<td>Silicone/PTFE</td>
</tr>
<tr>
<td>9502S-1WAP</td>
<td>EPP: w/Amber Universal Vials and 9502S-10C-B Caps</td>
<td>Bonded</td>
<td>Silicone/PTFE</td>
</tr>
<tr>
<td>9502S-3WAP</td>
<td>EPP: w/Amber Universal Vials and 9502S-30C-B Caps</td>
<td>Bonded</td>
<td>PreSlit/Silicone/PTFE</td>
</tr>
</tbody>
</table>

For More Information, Visit Our Website. Use Webcode: epp

To Order Call: 1-732-578-1777 or Order online @ www.mtc-usa.com
**WRITE-ON CLEAR GLASS VIALS** • Our Most Popular Vial

- Large Opening
- Convenient Fill Lines

<table>
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<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>UNITS</th>
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<tbody>
<tr>
<td>95025-WCV</td>
<td>Clear Universal Vials with Write-On Patch and Filling Lines. 12x32mm</td>
<td>100/PK</td>
</tr>
</tbody>
</table>


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**CLEAR GLASS VIALS**

- Most Economical Vial We Offer
- Large Opening

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<td>95025-0CV</td>
<td>Clear Universal Vials. 12x32mm</td>
<td>100/PK</td>
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**WRITE-ON AMBER GLASS VIALS**

- Large Opening
- Good for Light Sensitive Samples

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<tr>
<td>95025-WAV</td>
<td>Amber Universal Vials with Write-On Patch and Filling Lines. 12x32mm</td>
<td>100/PK</td>
</tr>
</tbody>
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**CLEAR GLASS VIALS WITH “FUSED INSERTS”**

These convenient vials are supplied with a 300 micro-liter volume insert permanently fused inside the vial. Vials also are supplied with Write On Patch and Fill Lines. Movement in the vial is eliminated minimizing breakage by the needle and evaporation is minimized by a “sealed insert”.

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<tr>
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<tbody>
<tr>
<td>95325-0CV</td>
<td>Clear Universal Vials with Fused 300ul Micro Inserts. 12x32mm</td>
<td>100/PK</td>
</tr>
</tbody>
</table>

See Page 7 for Caps and Inserts.
**AutoSampler Vials**

**Amber Glass Vials With Clear “Fused Inserts”**

These convenient amber glass vials are supplied with a 300 micro-liter volume insert permanently fused inside the vial. Vials also are supplied with Write-On Patch and Fill Lines. Movement in the vial is eliminated minimizing breakage by the needle and evaporation is minimized by a “sealed Insert”.

<table>
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<tr>
<th>CAT. NO.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>9532S-0AV</td>
<td>Amber Universal Vials with Clear Fused 300ul Micro Inserts. 12x32mm</td>
<td>100/PK</td>
</tr>
</tbody>
</table>

See Page 7 for Caps.

**Clear Glass Max Recovery Vials**

Large Capacity (1.5ml) with minimal Dead Volume (4ul). These center draining vials offer the best choice when “maximum recovery” of large sample capacity is required or for micro mixing (small scale reactions) or sample storage. Patches and fill lines are supplied in these packs.

<table>
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<tr>
<th>CAT. NO.</th>
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<tbody>
<tr>
<td>9512S-0CV</td>
<td>Clear Universal 1.5ml, Maximum Recovery Vials. 12x32mm</td>
<td>100/PK</td>
</tr>
</tbody>
</table>

See Page 7 for Caps.

**Amber Glass Max Recovery Vials**

Same as above but in Amber Glass

<table>
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<tbody>
<tr>
<td>9512S-0AV</td>
<td>Amber Universal 1.5ml, Maximum Recovery Vials. 12x32mm</td>
<td>100/PK</td>
</tr>
</tbody>
</table>

See Page 7 for Caps.

**Clear Plastic Vials-Polypropylene**

These inert, chemically resistant vials are non ionic and have a reduced adsorption of polar compounds and proteins. Made from virgin medical grade polypropylene, these vials are an excellent choice for Ion Chromatography and bio analytical samples.

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<tbody>
<tr>
<td>9502S-PP-Clear</td>
<td>Clear, 1.5ml plastic Universal Vials 12x32mm</td>
<td>100/PK</td>
</tr>
</tbody>
</table>

See Page 7 for Caps.

For More Information, Visit Our Website. Use Webcode: *vials*

To Order Call: 1-732-578-1777 or Order online @ www.mtc-usa.com
AutoSampler Vials

Amber Plastic Vials-Polypropylene

These inert, chemically resistant vials are non ionic and have a reduced adsorption of polar compounds and proteins. Made from virgin medical grade polypropylene, these vials are an excellent choice for Ion Chromatography and bio analytical samples.

CAT. NO. | DESCRIPTION | UNITS
--- | --- | ---
95025-PP-AMBER | Amber, 1.5ml plastic Universal Vials. 12x32mm | 100/PK

MicroVials, Plastic-One Piece Polypropylene

Made of a special formulation polypropylene for no extractables, these vials and caps are produced for and tested by LCMS. Excellent choice for LCMS, proteomic, CE, DNA or any biological application. Vials and caps are sold separately. Vials dimensions are 12x32mm.

CAT. NO. | DESCRIPTION | UNITS
--- | --- | ---
95325-0FV | Clear Universal Vials. Polypropylene, 300ul capacity. 12x32mm | 100/PK
95325-0XV | Clear Universal Vials. TPX, Polymethylpentene, 300ul capacity. 12x32mm | 100/PK

MicroVials, Plastic-One Piece TPX

Quiet Baselines
No Surprise Peaks

Made from Inert TPX Transparent Plastic

CAT. NO. | DESCRIPTION | UNITS
--- | --- | ---
95325-MS | Plastic Universal Microvials for Mass Spec use. 300ul Capacity | 100/PK
95725-MS | Plastic Universal Microvials for Mass Spec use. 700ul Capacity | 100/PK
95025-10M-B | Caps, Blue, Silicone/PTFE, for Mass Spec. Use with vials above. | 100/PK

For More Information, Visit Our Website. Use Webcode: vials

To Order Call: 1-732-578-1777 or Order online @ www.mtc-usa.com
### Caps for Universal Vials

**NEW!**

These caps are manufactured with purity and cleanliness in mind. Compatible with all Autosamplers Vials listed in this catalog.

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<tbody>
<tr>
<td>9502S-05-B</td>
<td>Cap, for all Universal Vials with installed, fitted Sil/PTFE (red/white) Septa. Blue plastic screw caps.</td>
<td>100/PK</td>
</tr>
<tr>
<td>9502S-10C-B</td>
<td>Cap, for all Universal Vials with installed, bonded Sil/PTFE (red/white) Septa. Blue plastic screw caps.</td>
<td>100/PK</td>
</tr>
</tbody>
</table>

### Caps for Universal Vials—“PreSlit”

These caps are manufactured with purity and cleanliness in mind and are compatible with all Universal Autosamplers Vials listed in this catalog. The septa is partially, pre-slit and bonded to the cap for assured injections even on the most sensitive autosamplers.

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<tbody>
<tr>
<td>9502S-30C-B</td>
<td>Cap, for all Universal Vials. Made with, bonded, pre-slit Sil/PTFE (red/white) Septa. Blue plastic screw caps.</td>
<td>100/PK</td>
</tr>
</tbody>
</table>

### Limited Volume Inserts—With Plastic Spring

Drop in insert for Universal Autosampler Vials with attached plastic spring for proper alignment with the autosampler once inside the vial. Spring also provides “cushioning” effect when needle hits the bottom. Wide mouth for easy filling. 200ul capacity. Precision point for reproducibility. Excellent choice when precision is desired.

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<tr>
<td>9502S-02N</td>
<td>Clear, Limited Volume Insert w/Spring for Universal Vials. 6x29mm, 200ul capacity.</td>
<td>100/PK</td>
</tr>
</tbody>
</table>

### Limited Volume Inserts—With Flat Bottom

These economical drop in inserts are wide mouth for easy filling and are designed for Universal Vials. Made from borosilicate clear glass, these inserts are designed for limited volumes when the dead volume is not critical.

<table>
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<tr>
<td>9502S-05N</td>
<td>Inserts, flat bottom, 6x31mm, 350ul capacity, clear, borosilicate glass</td>
<td>100/PK</td>
</tr>
</tbody>
</table>

For More Information, Visit Our Website. Use Webcode: *vials*

To Order Call: 1-732-578-1777 or Order online @ www.mtc-usa.com
**AutoSampler Vials**

**TOPSERT VIALS-GLASS INSERTS WITH PLASTIC BODIES**

These plastic vials are manufactured with a clear glass 200ul precision insert in them. Embedding them in the plastic assures no movement of the inserts and they will not come lose. Useful when the inertness of glass is required but the certainty of embedding them in plastic is important. Available in amber or clear plastic bodies.

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**VIAL RACK-NON SKID**

These durable racks have to be used to be believed. Clear acrylic allow for troubleshooting fills and bubbles. But what makes these so popular is that they will not move when placed on a bench top. Also the holes for each vial are precision cut so they are easy to fill but will not move in the rack.

These racks will accommodate flat and conical bottom 12mm OD vials. Stacking stability is also a great feature.

<table>
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<tbody>
<tr>
<td>9502R-01</td>
<td>Precision Rack for 12mm OD Vials Clear, Acrylic, non-skid.</td>
</tr>
</tbody>
</table>

**VISIT OUR WEBSITE FOR FREE SAMPLES OR MORE INFORMATION ON UNIVERSAL VIALS AND CAPS AND OTHER AUTOSAMPLER PRODUCTS SUCH AS SNAP-TOP, CRIMP TOP OR HEADSPACE VIALS.**

**INTRODUCING!** Visit www.mtc-usa.com/calculators.asp

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**Our Website is loaded with “Useful Information” including:**

- Chromatography Calculators—Calculate Common Values such as linear velocity, Efficiency, Dwell Volume of your system and many more.
- Online Ordering
- Analytical Glossary
- Application Notes
- Common Conversions
- Request Method Development Advice
- Samples of Products
- HPLC Tips, Tricks and Techniques
- Product Information and Pricing.

**Other Product Lines on our website Include:**

- Full CE Line of Coatings
- Capillaries, Kits & Accessories
- Qualification Kits
- HPLC Columns
- Syringe Filters and Filtration Devices

**ORDER VIALS AND CAPS FROM:**

MicroSolv Technology Corporation  
1 Industrial Way West, Bldg E  
Eatontown, NJ 07724 USA  
Ph: 1-732-578-1777  
Fx: 1-732-578-9777  
www.mtc-usa.com  
email:customers@mtc-usa.com