

Vials

Features of Shimadzu vials and septa

- 1st hydrolytic class glass
- Vials are packaged in a cleanroom
- Contamination-free septa production



■ Screw vials, 100/pack



| Part number | 226-54110-11 | 226-54110-01 | 226-54220-11 | 226-54220-01 | 226-54305-01 |
|---------------|--------------------|--------------------|---------------------|---------------------|--|
| Type | Clear, screw vial | Clear, screw vial | Clear, screw vial | Clear, screw vial | Clear, screw vial with integrated 0.2mL micro-insert, top bonded |
| Write on spot | ✓ | X | ✓ | X | ✓ |
| Min. Vol / uL | 200 | 200 | 200 | 200 | 25 |
| Max. Vol / mL | 1.5 | 1.5 | 1.5 | 1.5 | 0.2 |
| Dimension | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm |
| Size | ND 9, wide opening | ND 9, wide opening | ND 8, small opening | ND 8, small opening | ND 9, wide opening |



| Part number | 226-54301-01 | 226-54111-11 | 226-54111-01 | 226-54221-11 | 226-54222-01 |
|---------------|------------------------------|--------------------|--------------------|---------------------|---------------------|
| Type | Clear, microliter screw vial | Amber, screw vial | Amber, screw vial | Amber, screw vial | Amber, screw vial |
| Write on spot | X | ✓ | X | ✓ | X |
| Min. Vol / uL | 30 | 200 | 200 | 200 | 200 |
| Max. Vol / mL | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Dimension | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm |
| Size | ND 9, wide opening | ND 9, wide opening | ND 9, wide opening | ND 8, small opening | ND 8, small opening |



| Part number | 226-54307-01 | 226-54312-01 | 226-54313-01 | 226-54308-01 | 226-54309-01 |
|---------------|-------------------------------------|------------------------------------|--|---|---|
| Type | Clear, 0.9mL LabTotal Recovery vial | Clear, 0.9mL Microliter screw vial | Clear, 1.0mL Total Microliter screw vial | Amber, screw vial with integrated 0.2mL micro-insert, base bonded | Clear, screw vial with integrated 0.2mL micro-insert, base bonded |
| Write on spot | X | ✓ | X | X | X |
| Min. Vol / uL | 25 | 25 | 25 | 30 | 30 |
| Max. Vol / mL | 1.1 | 1.1 | 1.3 | 0.3 | 0.3 |
| Dimension | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm |
| Size | ND 9, wide opening | NP 9, wide opening | NP 9, wide opening | ND 9, wide opening | ND 9, wide opening |

■ ND9 screw plastic micro-vials, 100/pack

Plastic vials offer low binding for proteins and peptides and are the best choice for Ion Chromatography. Specially made for customers concerned about broken glass.



| Part number | 226-54310-01 | 226-54311-01 | 226-54302-01 | 226-54303-01 | 226-54304-01 |
|---------------|---|---|----------------------------|-------------------------------|----------------------|
| Type | 1.5ml PP screw clear vial, slightly concave shaped bottom | 1.5ml PP screw amber vial, slightly concave shaped bottom | PP micro-vial, transparent | TPX micro-vial, crystal clear | PP micro-vial, amber |
| Write on spot | x | x | X | X | X |
| Min. Vol / uL | 200 | 200 | 30 | 30 | 30 |
| Max. Vol / mL | 1.5 | 1.5 | 0.25 | 0.25 | 0.25 |
| Dimension | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm | 32 x 11.6mm |
| Size | ND 9, wide opening | ND 9, wide opening | ND 9, wide opening | ND 9, wide opening | ND 9, wide opening |

■ Caps/Septa for 1.5mL screw vials, 100/pack

Temperature limit for PTFE/Rubber septa: -40°C up to 110°C

Temperature limit for PTFE/Silicone septa: -60°C up to 200°C

Temperature limit for PTFE/Silicone/PTFE septa: -60°C up to 200°C



| Part number | Cap | Septa Material | Septa Thickness | Septa Durometer | Size | Picture |
|--------------|----------------------------|----------------------------|-----------------|-----------------|------|---------|
| 226-54112-01 | Blue PP, centre hole | PTFE/Rubber | 1.0 mm | 45° shore A | ND 9 | |
| 226-54113-01 | Blue PP, centre hole | PTFE/Silicone, ultra-clean | 1.0 mm | 55° shore A | ND 9 | |
| 226-84131-01 | Blue PP, centre hole | PTFE/Silicone * | 1.3 mm | 45° shore A | ND 9 | |
| 226-54114-01 | Blue PP, centre hole | PTFE/Silicone/PTFE | 1.0 mm | 45° shore A | ND 9 | |
| 226-84129-01 | Blue PP, centre hole | PTFE/Silicone, Slit | 1.0 mm | 55° shore A | ND 9 | |
| 226-54113-02 | Blue PP, centre hole | PTFE/Silicone, Slit * | 1.3 mm | 45° shore A | ND 9 | |
| 226-84130-01 | Blue PP, centre hole | PTFE/Silicone, pre-cut (Y) | 1.0 mm | 55° shore A | ND 9 | |
| 226-84128-01 | Gold Magnetic, centre hole | PTFE/Silicone, ultra-clean | 1.0 mm | 55° shore A | ND 9 | |
| 226-84132-01 | Blue PP, closed top | PTFE/Silicone, ultra-clean | 1.0 mm | 55° shore A | ND 9 | |
| 226-84220-01 | Black PP, centre hole | PTFE/Silicone, ultra-clean | 1.3 mm | 45° shore A | ND 8 | |
| 226-84221-01 | Black PP, centre hole | PTFE/Silicone, ultra-clean | 1.3 mm | 55° shore A | ND 8 | |
| 227-34119-01 | Translucent | - | - | - | ND9 | |
| 226-54221-01 | Black PP, closed top | PTFE/Silicone, ultra-clean | 1.3 mm | 45° shore A | ND 8 | |
| 226-54221-02 | Black PP, closed top | - | - | - | ND 8 | |
| 226-54221-03 | - | PTFE/Silicone | 1.3 mm | 45° shore A | ND 8 | |

* UltraBond seal, cap & septa form an inseparable unit, so that septa cannot fall out.

■ 1.5mL screw vial kit, including vial, cap and septa, 100/pack

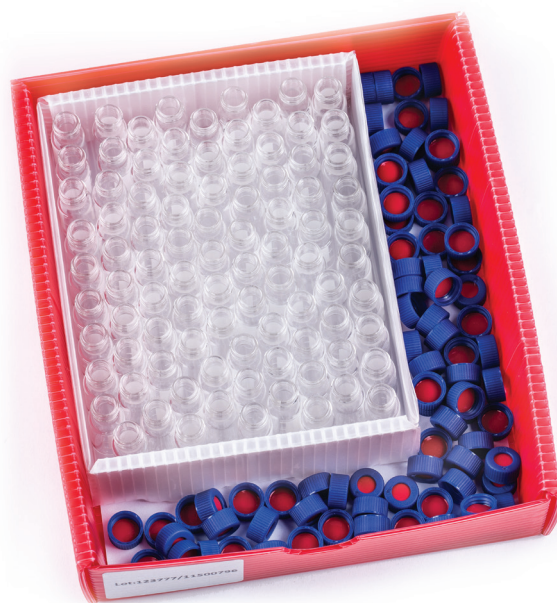
| Kit part number | Vial | Vial part number | Septa material | Cap/Septa part number |
|-----------------|--------------------------|------------------|----------------------------|-----------------------|
| 226-54110-33 | Clear with write on spot | 226-54110-11 | PTFE/Silicone, ultra-clean | 226-54113-01 |
| 226-54110-41 | Clear | 226-54110-01 | PTFE/Silicone, ultra-clean | 226-54113-01 |
| 226-54110-51 | Clear | 226-54110-01 | PTFE/Rubber | 226-54112-01 |
| 226-54111-41 | Amber with write on spot | 226-54111-11 | PTFE/Silicone, ultra-clean | 226-54113-01 |
| 226-54111-51 | Amber | 226-54111-01 | PTFE/Rubber | 226-54112-01 |

■ Micro-insert for 1.5mL screw vials, 100/pack

| Part number | Min. sample vol | Max. sample vol | Usage | Assembled plastic spring | Type | Picture |
|-----------------------------------|-----------------|-----------------|-------------------------|--------------------------|-------------|--|
| 226-84201-11 | 30 uL | 250 uL | ND9 wide opening vials | √ | Conical |  |
| 226-84202-11 | 25 uL | 150 uL | ND8 small opening vials | √ | Conical | |
| 227-34310-01 Silanized treated | 25 uL | 150 uL | ND9 wide opening vial | √ | Conical | |
| 226-84203-11 | 40 uL | 350 uL | ND9 wide opening vials | X | Flat bottom |  |
| 226-84204-11 | 40 uL | 260 uL | ND8 small opening vials | X | Flat bottom | |
| 227-34131-01 Silanized treated | 40 uL | 350 uL | ND9 wide opening vial | X | Flat bottom | |



1.5 mL amber screw vial kit



1.5 mL clear screw vial kit

Eco Vials series

Screw vial, 100/pack

| Part number | Min. sample vol | Max. sample vol | Usage | Write on spot | Dimension |
|--------------|-----------------|-----------------|------------------|---------------|-------------|
| 226-55912-00 | 200 uL | 1.5ml | ND9 wide opening | √ | 32 x 11.6mm |



Cap/Septa for Eco screw vials, 100/pack

| Part number | Cap | Septa Material | Septa Thickness | Septa Durometer | Size | Picture |
|--------------|----------------------|----------------------|-----------------|-----------------|------|---------|
| 226-55911-13 | Red PP, centre hole | PTFE/Silicone | 1.0mm | 50° shore A | ND 9 | |
| 226-55911-21 | Red PP, centre hole | PTFE/Silicone, Slit* | 1.0mm | 50° shore A | ND 9 | |
| 226-55911-12 | Blue PP, centre hole | PTFE/Silicone, Slit | 1.0mm | 50° shore A | ND 9 | |

*Bonded Septa

Shimadzu LabTotal Vial MS Certified Kit

- Reduces the Adsorption of Basic Compounds on the Surface of the Glass Vial.
 - This improves quantitative accuracy in the analysis of trace basic compounds.
- Quality certificate proving suitability to LCMS / GCMS
 - This product can be used as a vial for high-sensitivity analysis in GCMS and LCMS
- Wide Mouth with Preset Cap and Septum Improves Ease of Use
 - This shortens the time needed for sample preparation and reduces human error.



| Part number | Description |
|--------------|--|
| 227-34001-01 | LabTotal Vial Certified Kit for LCMS, 100/pk |
| 227-34001-02 | Blue PP cap, Silicone white/PTFE red for LabTotal vial LCMS, 50/pk |
| 226-84340-01 | Black PP cap, Silicone white/PTFE red for LabTotal vial LCMS, 100/pk |
| 227-34002-01 | LabTotal Vial Certified Kit for GCMS, 100/pk |
| 227-34001-11 | LabTotal Amber Vial Certified Kit |



Mass Spec Quality Certificate Provided

This confirms that there was an absence of elution components from the vial in random inspections using LC/MS and GC/MS. Therefore, this product can be used with confidence, with no concern for ghost peaks originating from the vial.

| Shimadzu Corporation | |
|--|--------|
| Certification of Inspection | |
| Shimadzu LabTotal Vial | |
| LabTotal Vial Certified Kit Part: 227-34001-01 Lot: 12345678 Description: UltraClean Basic form PP Short Thread Cap, black, centre hole; Silicone white/PTFE red, 1.0mm | |
| Each lot of "LabTotal Vial Certified Kit" is tested by a DIN ISO 9001:2008 certified company internal parameters so that vials are verified suitable for use in mass spectrometry. | |
| Glass | Result |
| Test Parameter | |
| - Hydrolytic Class 1.51 expansion Borosilicate meets all requirements of Pharm. USP, EU, JPH, class 10,000 cleanroom standard | Passes |
| - Height | Passes |
| - Diameter | Passes |
| - Bottom Thickness | Passes |
| - Neck Length | Passes |
| - Thread Profile | Passes |
| - Annealing | Passes |
| Cap / Septum | Result |
| Test Parameter | |
| - Leakage | Passes |
| - Thread Integrity | Passes |
| - Septa Thickness | Passes |
| - Septa Side Orientation (solid core type) | Passes |
| - Thread profile/Integrity/Chemical Test | Passes |
| - Extrusion | Passes |

| Shimadzu Corporation | |
|--|--------|
| Chemical Test | |
| Test Parameter | Result |
| - LCMS Test (Non-volatile Residue) | Passes |
| - GCMS Test (Volatile Residue) | Passes |
| GC/MS Chromatogram | |
| Vial with attached Closure, filled with non-polar solvent | |
| | |
| * The chromatogram between 0 - 12 min. is totally covered by the solvent peak and it is omitted. | |
| LC/MS Chromatogram | |
| Vial with attached Closure, filled with polar solvent | |
| | |
| QC Certification: <i>[Signature]</i> Date of QC Certification: 25.09.2015 | |
| Shimadzu Corporation www.shimadzu.com/en/ | |



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