

Vial Recommendation for Use with the U-2D Micro Sample Management Inserts - Tech Information

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For the highest level of performance, precision, and reliability, we strongly recommend using our AQ™ brand 9 mm screw-top or snap-top vials. These vials are engineered specifically to match the internal dimensions of the vial body and the precise length and outer geometry required by the U-2D™ inserts. This exact dimensional alignment ensures:

- Consistent vial positioning within the insert
- Reliable alignment for automated and manual handling
- Optimal sealing performance
- Reduced risk of misalignment-related errors in high-throughput workflows
- Unmatched quality control and manufacturing consistency

Because the U-2D™ system depends on tight tolerances for accurate sample positioning, vial construction must be highly uniform. The AQ™ vial line is manufactured with strict bottom-height and body-taper specifications that meet these requirements.

Use of Other Brands

Standard wide-opening 9 mm, 12 × 32 mm screw-top autosampler vials or wide-opening snap-top 12 × 32 mm vials from other suppliers *may* fit mechanically within the U-2D™ inserts. However, we do not endorse their use for the following reasons:

- Many third-party vial manufacturers do not maintain consistent bottom-height tolerances.
- Variability in vial length or base geometry can lead to:
 - Improper seating in the U-2D™ insert
 - Inconsistent pickup heights for robotic systems
 - Reduced measurement accuracy in automation
 - Potential sealing or alignment issues

Due to these known inconsistencies in the general market, performance cannot be guaranteed when using non-AQ™ vials.

Recommendation

For optimal system performance, reproducibility, and longevity of your automation workflows, AQ™ brand vials are the recommended and validated choice for all U-2D™ Micro Sample Management Inserts.



Drop the Insert into a Vial

Click [HERE](#) for U-2D Micro-Sample Management System Ordering Information

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