

## Which Autosampler Vial Type Should I Use for a Low Volume Sample Study of Proteins - FAQ

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## **Choosing the Right Vial for Low-Volume Protein Studies**

When working with low-volume protein samples, vial selection plays a critical role in preserving sample integrity and ensuring accurate results. Proteins can adsorb to borosilicate glass surfaces in two primary ways:

- Through hydroxyl groups or silanols present on untreated glass surfaces
- · Via hydrophobic interactions with the glass itself

These interactions can lead to sample loss, inconsistent concentrations, and compromised data quality.

## Recommended Solution: RSA-Pro X™ Vials

Deactivated RSA-Pro X<sup>™</sup> vials are specifically designed to address these challenges. They offer:

- Advanced surface treatment that is more complete than any other glass vial available
- Non-stick, hydrophobic surface that resists protein binding
- Hydrolytic stability, even under thermal stress from heating and cooling cycles

This makes RSA-Pro X<sup>™</sup> vials the optimal choice for sensitive, low-volume protein applications where sample recovery and consistency are essential.



RSA -Pro X vial product page and demonstration video

**Alternately,** if you can use plastic vials, your best option is most likely using the 300ul <u>LCMS Poly Vials</u> or our <u>700ul LCMS Poly Vials</u>.



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