



## Why does MicroSolv have 5 tiers or brands of autosampler vials - FAQ

To meet the diverse needs of laboratories and chromatographers, MicroSolv has developed a tiered portfolio of autosampler vials and closures—each designed with specific performance, quality, and budget considerations in mind.

### **MicroSolv Brand™ Vials**

Introduced: 1997

Glass Type: N51A Type-1 Borosilicate

These pharmaceutical-grade vials set the original standard for autosampler vial quality. Manufactured with in-line computerized vision systems, they ensure exceptional fit, form, and cleanliness. Widely adopted by leading autosampler manufacturers, they remain a trusted choice for high-precision applications.

### **BASIK™ Brand Vials**

Purpose: Cost-Effective, Reliable Performance

Developed for budget-conscious labs, BASIK™ vials offer chromatography-grade quality at a lower cost. They are manufactured with the same automated vision systems to ensure compatibility with autosamplers, but with less stringent QC than the MicroSolv brand. Ideal for routine analyses where ultra-high purity is not required.

### **AQ™ Brand Vials**

Introduced: 2007

Glass Type: Type-1, 33 Expansion Borosilicate

As UHPLC and MS technologies advanced, so did the need for cleaner, more consistent vials. AQ™ vials were developed to meet these demands with:

- Tight manufacturing SOPs
- Elimination of greases, surfactants, and other contaminants
- Advanced packaging that prevents outgassing

These vials are certified and quality-assured for LC-MS, GC-MS, and UHPLC applications, offering superior cleanliness and reliability.

### **AQ™ Brand with RSA™ Glass**

Purpose: Minimize Surface Activity

Even high-quality glass can introduce issues such as adsorption, chelation, and pH shifts—especially problematic for low-abundance analytes and labile compounds. RSA™ (Reduced Surface Activity) vials eliminate the variable silanol layer found in all conventional glass vials, making them ideal for:

- LC-MS/MS and GC-MS
- Basic and pH-sensitive compounds
- Low-dose pharmaceutical formulations

## RSA-Pro X™ Vials

### The Pinnacle of Vial Technology

Designed for the most demanding applications, RSA-Pro X™ vials combine all the benefits of RSA™ glass with enhanced surface deactivation. They are the best choice for:

- Biomarker discovery
- Forensic and environmental analysis
- Sticky proteins and peptides
- Long-term hydrophobic stability

These vials are manufactured without petroleum lubricants and are robotically packaged in ISO-certified, Class 100,000 cleanrooms—ensuring **zero human contact** and unmatched purity.

### One Source, All Tiers

MicroSolv and its partners have invested heavily in R&D and manufacturing to provide a complete solution for every chromatography need. Whether you're running routine HPLC or cutting-edge LC-MS/MS, our vial portfolio offers the right balance of **performance, purity, and price**.



[Click here to See All Tiers and Options](#)

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