



Substitute for the Waters Total Recovery Autosampler Vial - Tech Information

Date: 10-NOVEMBER-2023 Last Updated: 2-FEBRUARY-2026

The **Waters® Total Recovery Vial** is a proprietary, exclusive product of Waters Corporation and has unique design features intended for autosamplers that use **side-port injection needles**. While we cannot offer that exact vial, we do provide a high-performance alternative designed for the same autosampler platforms in most situations.

Our Alternative: **MICROSOLV™ MRQ™ Vials**

MICROSOLV's **MRQ™** vials were engineered to function in the same autosamplers that accept the Waters Total Recovery Vial, but with important design differences to match different needle geometries.



Click [HERE](#) to view more details on the MRQ vials.

Key Differences to Understand

- **Needle Compatibility**
 - Waters Total Recovery Vials are intended for autosamplers that use a side-port injection needle.
 - MRQ™ vials are optimized for autosamplers with bottom-port or bottom-inlet needles.
- **Volume & Headspace**
 - MRQ™ vials hold slightly more total volume and provide additional headspace, which can be beneficial for certain sample prep conditions.
- **Recovery Well Design**
 - Both vial types feature a recovery well, but the geometries differ:
 - MRQ™: smaller bottom well, designed for stability.
 - Waters TRV: longer, deeper well that extends lower in the vial.
- **Dimensions**

- Both vials share the same 12 × 32 mm external dimensions and 9-425 screw threads, so they fit identically into standard autosampler trays.

- Base Stability**

- MRQ™ vials include a wider base platform, improving stability in racks and trays without affecting instrument compatibility.

Below is a "rough" photograph for comparison purposes only, of both the Total Recovery Vial (TRV) and an MRQ Vial. Note that the MRQ Vial has a larger total volume and a smaller bottom well. The TRV has a longer well and terminates much lower in the vial than the MRQ.



If your autosampler uses a side-port needle, you must use the Waters Total Recovery Vial, as it is uniquely designed for that mechanism.

If your autosampler uses a bottom-inlet needle, the MICROSLV™ MRQ™ vial is an excellent, high-performance choice that fits seamlessly into the same platforms while offering greater volume and stability.

For detailed specifications or assistance selecting the correct vial for your autosampler, contact our technical team — we're always glad to help.

AUTOSAMPLER VIALS AND CAPS

Printed from the Chrom Resource Center

Copyright 2025, All Rights Apply

MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

Tel: (732) 380-8900

Fax: (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com