

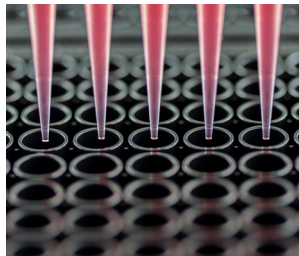
# Increase liquid handling quality with easy and reliable performance verifications.



## Artel MVS<sup>®</sup> with Data Manager

Without knowing the exact volume transferred at each step of an assay, the concentration of species in solution is unknown, potentially leading to unreliable results, delays, and cost overruns. Utilization of the Artel MVS for performance verification can prevent problems, bolster laboratory productivity, and provide confidence in the integrity of data.

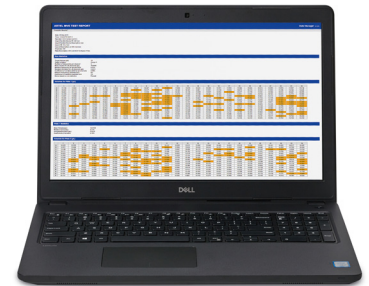
### Three simple steps to volume verification with automatic reporting.



1. Dispense the Sample Solution and Diluent into a Verification Plate and mix.



2. Measure the absorbance values with the Plate Reader.



3. Software displays results that indicate the performance of the liquid handler.

### Ideal for:

- Verifying the accuracy and precision of automated liquid handlers and multichannel pipettes
- Comparing instrument performance regardless of make, model or location
- Obtaining highly accurate results traceable to national and international standards
- Optimizing custom liquid classes on an automated liquid handler
- Standardizing results among multichannel pipette operators

# Verify volume transfer precision and accuracy simply and traceably in your lab, and simplify regulatory compliance with the easy-to-use MVS.

## System Capabilities:

- Measures performance over a wide volume range of 0.0001 to 350  $\mu$ L for Automated Liquid Handlers and Multichannel Pipettes
- Measures aqueous and non-aqueous volume transfers, with specialized solutions such as DMSO, PCRMix, SerumSub and more.
- Obtains volume statistics tip-by-tip and well-by-well
- Eliminates the need for rigorous environmental controls
- Simplifies verification and calibration—easy-to-use for technicians of any skill level
- Generates measurement results traceable to the International System of Units (SI) via standards maintained by NIST.

## Key Applications:

- Optimizing liquid classes
- Facilitating of scale-up and method transfer
- Developing, troubleshooting, and validating assays, methods, and SOPs
- Ensuring reproducibility of assay results
- Site acceptance testing and establishing baseline performance of new equipment
- Verifying performance before and after maintenance
- Assessing performance of other essential liquid handling equipment such as plate shakers, plate washers, and bulk dispensers
- Assessment and training of multichannel pipette operators

## Compliance:

The MVS complies with the Ratiometric Photometric Method according to ISO/IWA 15:2015 and can be used to fulfill test and calibration requirements of handheld or automated liquid handling systems according to CLSI QMS23:2019, ISO 17025:2017, cGMP, and cGLP. Data Manager Software can be used in laboratories compliant to 21 CFR Part 11.



“The MVS is easy to use, facilitating a frequent performance monitoring schedule. It has made a big difference in our laboratories, both from an efficiency point of view, as well as from a confidence standpoint.”



[artel-usa.com/MVS](https://artel-usa.com/MVS)