

Universal Validation Reference Plate (VRP)

Assay Testing Solutions & Volume Verification

- Validate Reader Performance
- Validate Automated Pipetting Systems

Training

Services

Reagents

Instruments

VRP simplifies and automates laboratory workflows by automatically validating and verifying reader performance.

Included in GLH QC Cal Kit modified Tartrazine single dye that follows ISO IWA 15 "Specification and method for the determination of performance of automated liquid handling (ALH) systems."

Works with Personalized Mini-Plate Reader and most off the shelf plate readers.

American ingenuity



Tools and Services for the Simplification and Practical Application of Measurement Standards in Automated Liquid Handling and Pipetting Systems

Main Features

- **Absorbance based reference**
- **Automatic standard curve**
- **No manual pipetting required**
- **Eliminates Operator error**
- **Pathlength independence**
- **No Evaporation issues**
- **Optional Pathlength correction**



- **Just in Time Manufactured**
- **Customized to different plate brands**
- **Standardized for Corning Costar**
- **Easy to transport TSA compliant carry-on**
- **Turn key technology**
- **Works with most readers**

Satisfaction Guarantee

Simple. Practical. Cost-effective.

Automation Trainer LLC PO Box 2534 Sacramento, CA 95812

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**Simple. Practical. Cost-effective.
Reliable , High Quality Results.**

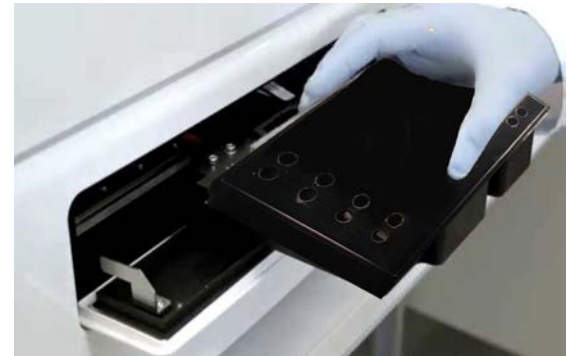
Validation Reference Plate is the direct response to feedback gained from training scientists, engineers and academic researchers developing assays with automated liquid handlers wanting automated volume verification & calibration by use of GLH QC Cal Kit modified single dye method. These professionals, acquired our help in recommending automation equipment, workflow optimization, protocol, method development, service, & training on liquid handlers & lab automation systems.

Specifications

Part Number	29001 – VRP Gen2 , universal for all readers 29002 – VRP Gen3 , slim design for Mini-Reader 29003 – VRP PC – Pathlength correction option 29004 – VRP PCM - Pathlength correction for Mini-Reader	
Physical characteristics	SBS compatible foot print for 96 well plate	
General	Detection Method	Absorbance
	Microplate types	96 well (384 pending) Standardized for Corning and Greiner Customization for other brands
	Software	Desktop excel based and/or Web GLHTracker Analysis/Reporting
	Manufactured	In USA
Applications	<input type="checkbox"/> Reader validation <input type="checkbox"/> Volume verification, IQ/OQ/PQ of Liquid handlers and pipettes <input type="checkbox"/> Pathlength correction	
Reference Dye	Test reference dye used in validating performance -Tartrazine-based solution made up of well characterized sterile components which improve consistency & extend shelf-life. Note: Reference may be customized to your needs.	
Measurement	% Relative Error $\pm 1.5\%$, % CV $\pm 1\%$ Tolerances may be tightened $<1\%$ based on user needs	
Wavelength filters	<input type="checkbox"/> Standard signal filters 405, 450, 492nm <input type="checkbox"/> Standard noise filter 620nm <input type="checkbox"/> Pathlength correction with 977 and 900nm <input type="checkbox"/> FWHM 10 nm	
Traceability / Compliance	Reagents are manufactured within an ISO Certified, FDA inspected medical reagent manufacturing facility.	

Supports Most Plate Readers

Insert VRP, scan in seconds, automatically generates standard curve for reader and assesses reader performance or volume verifies Liquid Handler



VRP Gen3 for Mini-Reader

Universal Validation Reference Plate slim design works with USB powered Mini-Reader



Fabrication – What’s inside

Fixed Pathlength samples, 4 References on left and right columns of plate, 3 replicates in reverse order accounts for well to well variation, and equivalent results to manually pipetting references with a digital syringe

Compatible with GLHTracker Analysis /Reporting software



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