QC Cal Kit Lite

Training

Services

Reagent Kits

Automated Liquid Handling & Pipetting System

- Accuracy & Precision Verification
- Calibration Recommendations

QC Cal Kit Lite uses similar (and improved) methods, as those found in ISO IWA 15 "Specification and method for the determination of performance of automated liquid handling systems."

Tartrazine-based dye solutions are made up of well characterized components which improve consistency and provide (12) twelvementh shelf-life



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

Satisfaction Guarantee



Simple. Practical. Cost-effective.

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Automation Trainer Reagent Kits are the direct response to feedback gained from training scientists, engineers and academic researchers in automated liquid handling volume verification and calibration. These professionals, were looking to bridge the gap between inconsistent, single-dye home brews, and the more costly, commercial, dual-dye method.

Specifications

Example based on 96-Channel, 20 uL, fixed-tip head, 2, 10, 20uL test (test samples in triplicate)

Part Number

QC Cal Kit Lite (96-Well PN 27997 / 384-Well PN 27998) Accuracy & Precision Verification plus Calibration recommendations for testing 1 to 384-tip liquid transfer to a microplate (96 or 384-well). Single run, single test; water liquid class; One-time use kit.

Test/Capacity

Single run, single test, 1 to 384-tip liquid transfer to a microplate (96 or 384-well)

Test Time, Typical

< 20 minutes + read time (With established liquid class; robot and reader methods)

Reference Dye

Tartrazine-based solution made up of well characterized components which improve consistency and extend shelf-life

Measurement System

Performance

*SLAS Presentations Feb 2018 & 2020 (3rd-party reproducibility study comparing results w/gravimetric & dual-dye methods) Your actual results depend on your optimization of the liquid class, performance and calibration of your plate reader, performance of the hand-held manual pipette used to generate the reference curve, and the reproducibility of the environmental conditions.

Pipettors, Compatible

1 to 384-fixed-tip & disposable tip heads, >100nL to 200 uL

USER SUPPLIED ITEMS

- ☐ Automated Liquid Handler (ALH) or Pipetting System / Tips
- ☐ Absorbance Microplate Reader in Calibration (Signal: 405-450 nm; Noise 605-650 nm.)

% Relative Error + 0.8%, % CV + 0.2%*

- Orbital Shaker (600 rpm)
- ☐ Distilled Water, HLPC Grade (diluent for test samples) ≥ 30mL
- PC with Internet access required for cloud-based software/Excel template for data gathering
- 4-Reference Dye Pillow-packs; 4-Troughs
- 4-Test Dye Pillow-packs; 5-Reservoirs
- 13-Microplates w/lids
- 1-Manual hand-held reference pipette
- Method
- 30-day Access Code to Cloud Software / Excel Template

Shelf-life

Warranty,

Limited

In the Box

Labware)

(Sterile Dye &

12 months

90-day Satisfaction Guarantee.

Reagent Kits are intended for laboratory research use by trained users. Determination of their suitability for specific end-use is the responsibility of the user, who assumes all liability for loss or damage arising out of the use of the product. Warranty is limited to replacement of defective materials, if returned with authorization, within 1-year of purchase date.

Traceability / Compliance

utomation

Provides accuracy, precision and calibration recommendations using similar (and improved) methods, as those found in ISO IWA 15 "Specification and method for the determination of performance of automated liquid handling systems."

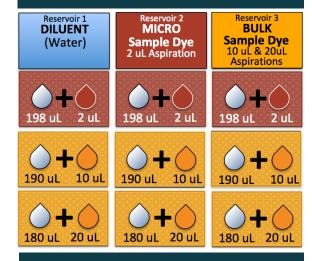
Automation Trainer LLC

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

1-Prepare Reference Plate Calibrated Hand Pipette Transfers Trough 1 ALPHA **023 000 000 000** Trough 2 Transfer **Hand Pipette** 200 uL in **REF Dye** Triplicate Only a Single Row! Trough 3 **GAMMA** REF Dye OMEGA Trough 4

2-Prepare Test Plates in Triplicate



3-Orbital Shake Test Plates



4-Read Plates

Calibrated Photometer

425 nm Signal 625 nm Noise



5-Excel Data or Cloud Software



