



Linearity and Calibration Verification Test Kits for Clinical Analyzers

Calibration Verification, performed at regular intervals, ensures that your clinical analyzer is performing to the manufacturer's claims, ensuring reliable and consistent patient test results.



EASY.

VALIDATE® test kits use human-sourced raw materials, where available, and require no reconstitution.



Liquid, ready-to-use solutions are supplied in multi-use dropper bottles for easy dispensing.



Order once per year with extended open-vial stability and sufficient volume for 2+ verification cycles.

FAST.

VALIDATE® test kits increase productivity, reducing the need for sample preparation and manual dilutions.



Levels 1 - 5 are prepared according to CLSI's EP06-A guideline.



Fulfill CLIA '88, CAP, ISO 15189, COLA, JCAHO, JCI and other accreditation and regulatory requirements.

EFFICIENT.

Together with our MSDRx® software, VALIDATE® provides a comprehensive calibration verification assessment.



Instrument-specific configurations maximize range coverage and minimize dilutions.



Use for installation, preventative maintenance and troubleshooting of reagents, QC and calibration.

MARKET LEADER IN CALIBRATION VERIFICATION

INSTALLATION

VALIDATE® products are used to perform validation of new instruments and assays, and to verify calibration. These instrument-specific kits are used by manufacturers and clinical laboratories to ensure instrument and assay specifications are being met, ensuring reliable and consistent patient results.

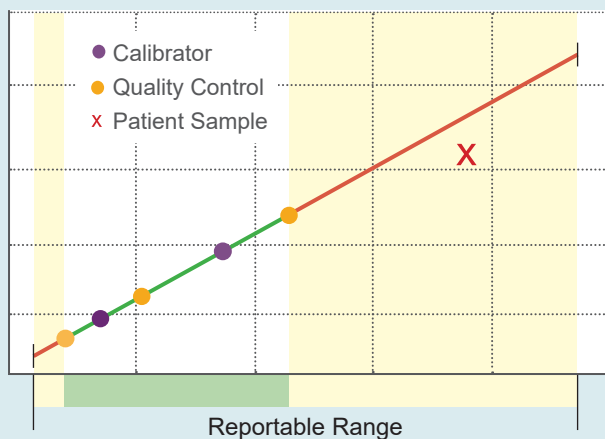
MAINTENANCE & TROUBLESHOOTING

VALIDATE® products are multi-use with extended open-vial stability. Having the same solutions available over several months and multiple uses affords the laboratory an invaluable tool when verifying and monitoring a method's performance.

COMPARISON OF RECOVERED VALUE VS. CONCENTRATION

Assaying materials in the same manner as patient samples, using VALIDATE®, confirms that an instrument, kit or test system has remained stable throughout the reportable range. Therefore, laboratories can expand beyond the routine quality control range, with confidence.

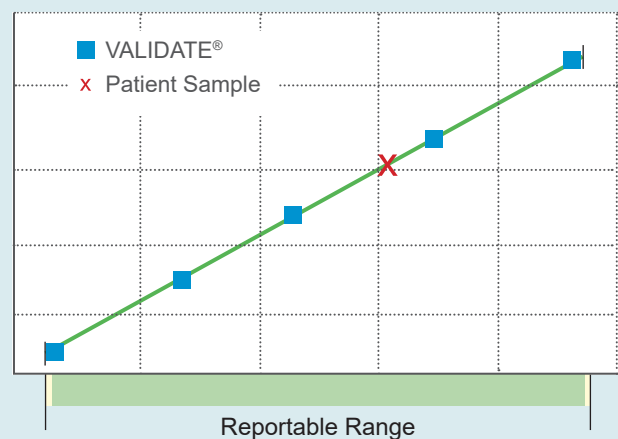
ROUTINE QUALITY CONTROL



- ❗ Upper and lower limits unchallenged
- ❗ Assay linearity unknown
- ❗ Unknown patient result outside of QC limits

The laboratory can not ensure that the response curve is linear beyond the limits of the calibrator and controls. When a patient sample result falls outside this range, there is reduced confidence that the result is valid.

VALIDATE® CALIBRATION VERIFICATION



- ✓ Limits challenged and monitored
- ✓ Assay linearity established
- ✓ Patient result within verified range

VALIDATE® challenges the extremes of the reportable range. Assaying five levels, using the equal-delta protocol prescribed by CLSI EP06-A, verifies a linear response. Patient samples are reported with increased confidence.

CONFIGURATIONS TAILOR-MADE TO ANALYTICAL INSTRUMENT PLATFORMS.

Clinical Chemistry & Immunoassay Analyzers

- Abbott Laboratories
- Beckman Coulter
- Ortho Clinical Diagnostics
- Roche Diagnostics
- Siemens Healthineers
- Tosoh Bioscience

Hemostasis Analyzers

- Diagnostica Stago
- Instrumentation Laboratory
- Siemens Healthineers



LGC Maine Standards offers in excess of 140 analytes, formulated into standard groupings. Visit our website, www.mainestandards.com, to view the multiple range coverages for each analyte and use the Analyzer Search Tool to identify the recommended products for your specific analyzers.

GENERAL CHEMISTRIES

GC1

Albumin
Blood Urea Nitrogen
Calcium
Chloride
Cholesterol
Creatinine
Glucose
Lactate
Lithium
Magnesium
Phosphorus
Potassium
Sodium
Total Protein
Triglycerides
Uric Acid

GC2

Ammonia
Carbon Dioxide
Ethyl Alcohol
Total Iron
Uric Acid

GC3

Alanine Aminotransferase
Alkaline Phosphatase
Amylase
Aspartate Aminotransferase
Creatine Kinase
Gamma-Glutamyltransferase
Lactate Dehydrogenase
Lipase

GC4

Conjugated Bilirubin
Direct Bilirubin
Total Bilirubin

IRON BINDING CAPACITY

IBC

Total Iron Binding Capacity
Unsaturated Iron Binding Capacity

LIPOPROTEIN

LP

Apolipoprotein A
Apolipoprotein B
High Density Lipoprotein
Low Density Lipoprotein

THERAPEUTIC DRUGS

TDM1

Acetaminophen
Amikacin
Carbamazepine
Digoxin
Gentamicin
Lidocaine
N-Acetylprocainamide
Phenobarbital
Phenytoin
Primidone
Procainamide
Quinidine
Salicylate
Theophylline
Tobramycin
Valproic Acid
Vancomycin

URINE CHEMISTRIES

UC1

Chloride
Ethyl Alcohol
Glucose
Potassium
Sodium
Total Protein
Urea Nitrogen
Uric Acid

UC4

Calcium
Creatinine
Magnesium
Phosphorus

UC5

Amylase
Micro-Albumin
Pancreatic Amylase

UC6

Albumin
Creatinine

OSMOLALITY

OSMO

Serum Osmolality
Urine Osmolality

CARDIAC MARKERS

CM1

Creatine Kinase-MB
Myoglobin

CM2

Brain Natriuretic Peptide
High Sensitivity C-Reactive Protein
N-terminal Prohormone of BNP
Troponin I
Troponin T

HIGH SENSITIVE TROPONIN

High Sensitivity Troponin I
High Sensitivity Troponin T

THYROID ANALYTES

THY

Cortisol
Free T3
Free T4
Thyroid Stimulating Hormone
Total T3
Total T4

VITAMIN D

VIT D

Vitamin D

SERUM PROTEINS

SP1

α 1-Antitrypsin
Complement C3
Complement C4
Immunoglobulin A
Immunoglobulin G
Immunoglobulin M
Transferrin

SP2

Albumin
C-reactive Protein
Ceruloplasmin
Haptoglobin
Prealbumin
Rheumatoid Factor

SP3

α 1-Acid Glycoprotein
Antistreptolysin O
B2-Microglobulin
Immunoglobulin E

TUMOR MARKERS

PSA*

free Prostate-Specific Antigen
total Prostate-Specific Antigen
*Not CE Approved.

TUMOR MARKERS

Cancer Antigen 15-3
Cancer Antigen 19-9
Cancer Antigen 125
Carcinoembryonic Antigen

ANEMIA

ANEMIA

Ferritin
Folate
Vitamin B12

FERRITIN

Ferritin

FERTILITY

FERTILITY 1

Follicle-Stimulating Hormone
Human Chorionic Gonadotropin
Luteinizing Hormone
Prolactin
Testosterone

FERTILITY 2

α 1-fetoprotein
Dehydroepiandrosterone Sulfate
Estradiol
Progesterone

GLYCOHEMOGLOBIN

HbA1c

% Glycohemoglobin A1c

PROCALCITONIN

PCT

Procalcitonin

BODY FLUIDS

BODY FLUIDS

Albumin
Amylase
Cancer Antigen 19-9
Carcinoembryonic Antigen
Cerebrospinal Fluid Total Protein
Cholesterol
Creatinine
Glucose
Lactate
Lactate Dehydrogenase
Total Protein
Triglycerides
Urea Nitrogen

WHOLE BLOOD GLUCOSE

WBG

Glucose

HEMOSTASIS

D-DIMER

D-Dimer

HEPARIN

Heparin Anti-Xa

FIBRINOGEN

Fibrinogen





DATA SUBMISSION

LGC Maine Standards' Data Reduction Program puts the power of analysis at your fingertips. This free statistical software delivers real-time analysis of your linearity and calibration verification test results.

LINEARITY ASSESSMENT

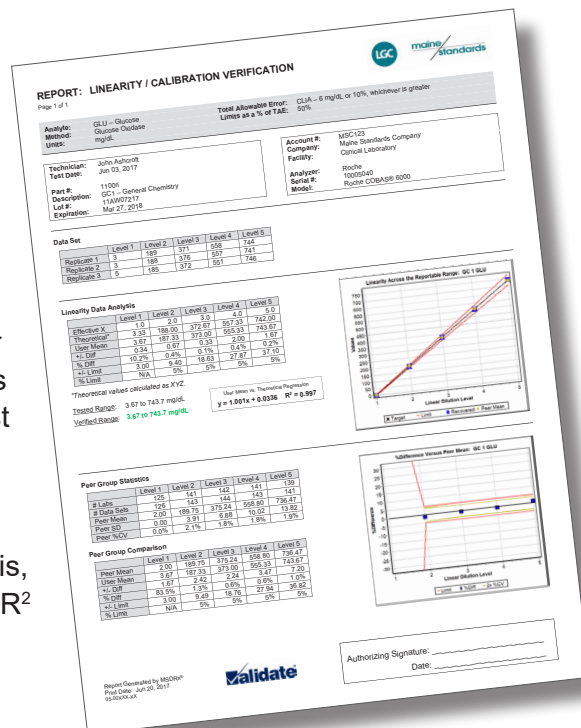
Instant results. Easily and quickly perform linear regression analysis, including slope (proportional error), y-intercept (constant error), R^2 and view an X-Y graph.

PEER GROUP ANALYSIS

Take peer group analysis to a new level by using VALIDATE® and MSDRx®. Compare your data to Peer Means at each level across the entire range. Assess against Total Allowable Error Limits. If necessary, troubleshoot your assay. Evaluate specific methods in advance of Proficiency Testing (PT) events with anytime, on-line access to peer recoveries.

REPORTS

MSDRx® provides clear, concise, easily understood and explained statistical analyses and graphic presentations. You, your colleagues, your inspectors and your auditors can assess your laboratory performance quickly and with little interpretation.



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CE marked kits. Check with international distributors for specific product availability.



DEA Registered Facility for the manufacture of controlled substances.



US FDA Registered Facility. Complies with Quality System Regulation (QSR).



ISO 13485:2016 Accredited Quality Management System (QMS).



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