



# VERICHEM<sup>®</sup>

**LABORATORIES INC.**

**PRODUCT CATALOG**

## *Reference Materials*

*for clinical quality control*

- ▼ METHOD EVALUATION
- ▼ CALIBRATION VERIFICATION
- ▼ TROUBLESHOOTING
- ▼ CALIBRATION
- ▼ RECOVERY STUDIES
- ▼ ROUTINE QUALITY CONTROL
- ▼ FREE DATA REDUCTION

*Verified and lot certified using available standard reference materials from the National Institute of Standards and Technology (NIST)*

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*A product line ahead of its* **TIME.**

- pre-proficiency surveys ▼
- tracking normal range drift ▼
- post maintenance evaluation ▼
- precision testing ▼
- linearity performance studies ▼
- system bias to the true value ▼
- reportable range verification ▼
- determination of system sensitivity ▼

*The future is* **NOW.**

**Advanced Design**

**Independent Value Assignment**

**Multi-functional**

**Lot Certified Accuracy**

**Ready to Use**



**VERICHEM<sup>®</sup>** *Reference Materials*

**POWERFUL Solutions**  
*for quality control.*



## MATRIX PLUS™ CHEMISTRY REFERENCE KIT

List Number 9500

(5 X 15 mL)

Price \$166.00

- liquid standards with bovine protein
- superb performance with sodium, potassium and chloride indirect ISE systems (no separate electrolyte set required for indirect ISE systems)
- remarkable optical clarity
- suitable for most methods - visible and UV, kinetic or endpoint
- known concentrations for calibration or calibration verification
- constant protein content and pH across the concentration levels
- glycol and azide free
- stable 21 months from date of manufacture

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E
SODIUM	mmol/L	110	130	150	170	190
POTASSIUM	mmol/L	1.0	3.0	5.0	7.0	9.0
CHLORIDE	mmol/L	50	75	100	125	150
GLUCOSE	mg/dL	25	200	375	550	725
UREA NITROGEN	mg/dL	5.0	37.5	70.0	102.5	135.0
CREATININE	mg/dL	0.2	6.2	12.2	18.2	24.2
CALCIUM	mg/dL	5.0	7.5	10.0	12.5	15.0
PHOSPHORUS	mg/dL	1.0	3.5	6.0	8.5	11.0
MAGNESIUM	mg/dL	0.80	2.30	3.80	5.30	6.80
MAGNESIUM	mEq/L	0.66	1.90	3.13	4.37	5.60
TRIGLYCERIDE*	mg/dL	10	245	480	715	950

\*Triglyceride values are obtained by gravimetric weight of glycerol expressed as triolein.

## MATRIX PLUS™ CHEMISTRY REFERENCE, LEVEL F

List Number 9506

(1 X 15 mL)

Price \$ 28.00

- identical matrix as Verichem 9500 MATRIX PLUS™ Chemistry Reference Kit for optimum linearity
- protein based, ready-to-use liquid
- no glycols, azides or surfactants
- known concentrations verified against available NIST Standard Reference Material

ANALYTE	UNITS	LEVEL F
SODIUM	mmol/L	200
POTASSIUM	mmol/L	12.0
CHLORIDE	mmol/L	200
GLUCOSE	mg/dL	1000
UREA NITROGEN	mg/dL	150
CREATININE	mg/dL	30.0
CALCIUM	mg/dL	20.0
PHOSPHORUS	mg/dL	20.0
MAGNESIUM	mg/dL	9.72
TRIGLYCERIDE*	mg/dL	1250

\*Triglyceride values are obtained by gravimetric weight of glycerol expressed as triolein.

This product is not sold separately and must be purchased with 9500 Matrix Plus™ Chemistry Reference Kit.

## URINE CHEMISTRY STANDARD KIT

List Number 9000

(5 X 15 mL)

Price \$166.00

- intended for calibration verification or calibration
- known, gravimetric concentrations
- liquid, ready-to-use
- synthetic matrix: free of surfactants, glycols, azide and other interfering substances
- stable 18 months from date of manufacture
- treat as patient specimen with any wet chemistry urine test

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E
SODIUM	mmol/L	10	110	210	310	410
POTASSIUM	mmol/L	2	52	102	152	202
CHLORIDE	mmol/L	20	115	210	305	400
UREA NITROGEN	mg/dL	20	365	710	1055	1400
CREATININE	mg/dL	5	80	155	230	305
CALCIUM	mg/dL	1.0	6.0	11.0	16.0	21.0
PHOSPHORUS	mg/dL	10	60	110	160	210
MAGNESIUM	mg/dL	1.0	3.5	6.0	8.5	11.0

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LABORATORIES, INC.

Customer Service toll free (800) 552-5859

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## ENZYME ER™ VERIFIER KIT

List Number 9410

(6 X 5 mL)

Price \$196.00

- protein-based, liquid, ready-to-use
- intended for calibration verification of serum kinetic assays
- known linear relation stated in product insert
- stable 14 months from date of manufacture
- specifically designed for extended range systems
- assay values included for Olympus AU Chemistry Systems
- normal range point for all enzymes

Note: See List No. 9440 for SYNCHRON DxC, CX / LX.

ANALYTE	UNITS*	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E	LEVEL F
ASPARTATE AMINOTRANSFERASE (AST/GOT)	U/L,37°C	4	26	216	428	638	850
ALANINE AMINOTRANSFERASE (ALT/GPT)	U/L,37°C	3	18	152	302	451	600
ALKALINE PHOSPHATASE (ALP/AP)	U/L,37°C	9	54	457	905	1352	1800
LACTATE DEHYDROGENASE (LD/LDH)	U/L,37°C	8	45	381	755	1127	1500
CREATINE PHOSPHOKINASE (CK/CPK)	U/L,37°C	10	60	508	1006	1502	2000
GAMMA GLUTAMYLTRANSFERASE (GGT/GGPT)	U/L,37°C	6	36	305	604	901	1200
ALPHA-AMYLASE (AMS/AMY)	U/L,37°C	10	60	508	1006	1502	2000
LIPASE (LP/LIP)	U/L,37°C	18	32	164	309	455	600
CHOLINESTERASE (CHE)	KU/L,37°C	0.08	0.45	3.81	7.55	11.27	15.00

\*Typical recovery for AU Chemistry Systems; values shown are approximate.

## MULTI-ENZYME VERIFIER KIT (LOW RANGE)

List Number 9440

(12 X 5 mL)

Price \$168.00

- protein-based, liquid, ready-to-use
- intended for calibration verification of serum kinetic assays
- known linear relation stated in product insert
- stable 14 months from date of manufacture
- specifically designed for SYNCHRON Chemistry Systems
- assay values included for SYNCHRON DxC, LX / CX Systems
- normal range point for all enzymes

DESIGNED FOR SYNCHRON

ANALYTE	UNITS*	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E	LEVEL F
ASPARTATE AMINOTRANSFERASE (AST/GOT)	U/L	6	26	85	203	302	400
ALANINE AMINOTRANSFERASE (ALT/GPT)	U/L	6	26	85	203	302	400
ALKALINE PHOSPHATASE (ALP/AP)	U/L	15	64	212	508	754	1000
LACTATE DEHYDROGENASE (LD/LDH)	U/L	11	48	159	381	565	750
CREATINE PHOSPHOKINASE (CK/CPK)	U/L	18	77	254	609	905	1200
GAMMA GLUTAMYLTRANSFERASE (GGT/GGPT)	U/L	11	48	159	381	565	750
ALPHA-AMYLASE (AMS/AMY)	U/L	12	51	170	406	603	800
LIPASE (LP/LIP)	U/L	10	20	48	105	153	200

\*Typical recovery for SYNCHRON LX; values shown are approximate.

## ELECTROLYTE STANDARD KIT

List Number 9200

(5 X 15 mL)

Price \$130.00

- protein-based, liquid standards
- intended for calibration verification or calibration
- suitable for most direct ISE, diluted ISE and cesium flame
- glycol and surfactant free for maximum electrode protection
- revised formulation for lithium direct ISE

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E
SODIUM	mmol/L	100	118	136	154	172
POTASSIUM	mmol/L	1.75	4.50	7.25	10.00	12.75
CHLORIDE	mmol/L	60.0	88.5	117.0	145.5	174.0
LITHIUM	mmol/L	0.50	1.75	3.00	4.25	5.50
IONIZED CALCIUM	mmol/L*	0.50	1.50	2.50	3.50	4.50

\*Ionized Calcium values shown are approximate

### ORDERING INFORMATION

by Phone: 800-552-5859 (Toll Free)  
401-461-0180 (Rhode Island)

by Fax: 401-467-1540

by Mail: Verichem Laboratories, Inc.  
90 Narragansett Avenue  
Providence, RI 02907

Minimum order is \$50.00. All orders shipped UPS Air, F.O.B Providence. Shipping costs are prepaid and added to each invoice. Terms are net 30 days from date of invoice. No other items or conditions of sale binding unless authorized by a Verichem representative. Prices effective March 19, 2010 and subject to change without notice.

[www.verichemlabs.com](http://www.verichemlabs.com)

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## MATRIX PLUS™ CHOLESTEROL REFERENCE KIT

List Number 9550

(5 X 15 mL)

Price \$136.00

- liquid standards with bovine protein
- remarkable optical clarity
- contains esterified and free cholesterol from bovine serum
- known concentrations verified against available NIST Standard Reference Material
- for calibration or calibration verification
- constant protein content, pH and ionic strength across concentration levels
- prepared without surfactants, glycol or azide
- stable 21 months from date of manufacture

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E
CHOLESTEROL	mg/dL	40	155	270	385	500
URIC ACID	mg/dL	2	7	12	17	22

## MATRIX PLUS™ CHOLESTEROL, LEVEL F

List Number 9556

(1 X 15 mL)

Price \$28.00

- identical matrix as Verichem 9550 MATRIX PLUS™ Cholesterol Reference Kit for optimum linearity
- protein based, ready-to-use liquid
- no glycols, azides or surfactants
- known concentrations verified against available NIST Standard Reference Material
- stable 21 months from date of manufacture

ANALYTE	UNITS	LEVEL F
CHOLESTEROL	mg/dL	750
URIC ACID	mg/dL	30

This product is not sold separately and must be ordered with 9550 Matrix Plus™ Cholesterol Reference Kit.

## TOTAL PROTEIN / ALBUMIN STANDARD KIT

List Number 9460

(5 X 15 mL)

Price \$120.00

- for calibration verification or calibration
- prepared with human serum albumin
- accurate, liquid standards containing purified proteins in saline
- stable 24 months from date of manufacture
- known concentrations verified against available NIST Standard Reference Material

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E
TOTAL PROTEIN	g/dL	1.5	4.0	6.5	9.0	11.5
HUMAN ALBUMIN	g/dL	1.5	2.5	3.5	4.5	5.5

## TOTAL PROTEIN / ALBUMIN STANDARD, LEVEL F

List Number 9466

(1 X 15 mL)

Price \$24.00

- identical matrix as Verichem 9460 Total Protein/Albumin Standard Kit for optimum linearity
- accurate, ready-to-use liquid standard
- prepared from highly purified proteins
- known concentrations verified against available NIST Standard Reference Material

ANALYTE	UNITS	LEVEL F
TOTAL PROTEIN	g/dL	14.0
HUMAN ALBUMIN	g/dL	6.5

This product is not sold separately and must be ordered with 9460 Total Protein/Albumin Standard Kit.

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LABORATORIES, INC.



## BILIRUBIN STANDARD KIT

List Number 9450

(10 X 5 mL)

Price \$116.00

- protein-based, optically clear, liquid standards
- intended specifically for calibration verification
- known linear relation stated in product insert
- stable 5 days after opening when refrigerated
- kit includes two, five-level sets
- no glycols, azides or surfactants
- concentrations verified against available NIST Standard Reference Material

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E
TOTAL BILIRUBIN	mg/dL	0.5	5.5	10.5	15.5	20.5
DIRECT BILIRUBIN	mg/dL*	0.5	5.5	10.5	15.5	20.5

\*direct bilirubin values may vary with methodology and conditions of assay

## BILIRUBIN STANDARD, LEVEL F

List Number 9436

(2 X 5 mL)

Price \$26.00

- identical matrix as Verichem 9450 Bilirubin Standard Kit for optimum linearity
- protein based, ready-to-use liquid
- no glycols, azides or surfactants
- concentrations verified against available NIST Standard Reference Material
- stable 5 days after opening when refrigerated

ANALYTE	UNITS	LEVEL F
TOTAL BILIRUBIN	mg/dL	30.0
DIRECT BILIRUBIN	mg/dL*	30.0

\*direct bilirubin values may vary with methodology and conditions of assay

This product is not sold separately and must be ordered with 9450 Bilirubin Standard Kit.

## TRU-ZERO™ BILIRUBIN STANDARD

List Number 9456

(2 X 5 mL)

Price \$18.00

- identical matrix as Verichem 9450 Bilirubin Standard Kit for optimum linearity
- protein based, ready-to-use liquid
- no glycols, azides or surfactants
- no special procedures or diluents required
- stable 5 days after opening when refrigerated

ANALYTE	UNITS	CONCENTRATION
TOTAL BILIRUBIN	mg/dL	0.0
DIRECT BILIRUBIN	mg/dL	0.0



*“Verichem Laboratories is dedicated to all clinical chemists whose goal is to determine the absolute accuracy of their diagnostic test system.*

*Our ultimate goal is to provide clinical chemists with cost effective, ready-to-use, protein-based reference materials that are also serum-like, highly accurate and stable. For calibration verification, Verichem standards are used to determine a clinical system’s bias to the true or known value, independent of consensus.”*

Anthony J. DiMonte  
President

Verichem Laboratories, Inc.



## CARBON DIOXIDE STANDARD KIT

- aqueous, ready-to-use standards
- intended for calibration verification or calibration
- suitable for most serum ISE or enzymatic methods
- prepared from reagent grade source materials

List Number 9210 (5 X 15 mL) Price \$54.00

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E
CARBON DIOXIDE	mmol/L	5	10	20	30	40

## CARBON DIOXIDE STANDARD, LEVEL F

- identical non-protein matrix as Verichem 9210 Carbon Dioxide Standard Kit for optimum linearity
- ready-to-use liquid
- prepared from reagent grade standard source materials
- suitable for most serum ISE or enzymatic methods

List Number 9216 (1 X 15 mL) Price \$8.00

ANALYTE	UNITS	LEVEL F
CARBON DIOXIDE	mmol/L	50

This product is not sold separately and must be ordered with 9210 Carbon Dioxide Standard Kit.

## AMMONIA / IRON STANDARD KIT

- intended for calibration or calibration verification
- pH adjusted, non-protein matrix supports these critical trace analytes
- stable 24 months from date of manufacture at 2° to 8°C
- contains only reagent grade source materials
- suitable for most enzymatic ammonia and iron color methods

List Number 9040 (5 X 15 mL) Price \$90.00

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E
AMMONIA	µmol/L	6	235	464	693	922
AMMONIA	mcg/dL	10	400	790	1180	1570
TOTAL IRON	mcg/dL	10	130	250	370	490

## AMMONIA / IRON STANDARD, LEVEL F

- identical non-protein matrix as Verichem 9040 Ammonia/Iron Standard Kit for optimum linearity
- ready-to-use liquid
- prepared from reagent grade standard source materials
- known concentrations verified against available NIST Standard Reference Material

List Number 9046 (1 X 15 mL) Price \$12.00

ANALYTE	UNITS	LEVEL F
AMMONIA	µmol/L	1175
AMMONIA	mcg/dL	2000
TOTAL IRON	mcg/dL	1000

This product is not sold separately and must be ordered with 9040 Ammonia / Iron Standard Kit.

Verichem has accomplished unprecedented technical achievements and continues to advance in linking definitive method value assignment with practicality. Clinical scientists worldwide have recognized the importance of Verichem premium quality control materials in routine monitoring of their chemistry systems.



## HDL CHOLESTEROL VERIFIER KIT

List Number 9560

(6 X 5 mL)

Price \$210.00

- intended for calibration verification of serum HDL cholesterol and LDL cholesterol
- liquid, ready-to-use, no manual dilution required
- treat as patient specimen with any indirect or direct wet method
- ultra-pure, protein matrix eliminates ambiguity and imprecision
- linear relation provided
- assigned values included for AU Chemistry Systems as well as all direct methods

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E	LEVEL F
HDL CHOLESTEROL	mg/dL*	10	42	73	105	131	200
LDL CHOLESTEROL	mg/dL*	20	83	147	210	263	400

\*Typical recovery, values shown are approximate.

## MICROPROTEIN STANDARD KIT

List Number 9480

(5 X 15 mL)

Price \$120.00

- intended for calibration or calibration verification
- liquid, ready-to-use standards
- human protein components for optimum reactivity
- extremely stable formulation with 24 month shelf life at 2° to 8°C
- certified gravimetric concentrations with exceptional lot-to-lot duplication
- suitable for any turbidimetric or colorimetric method
- azide free

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E
TOTAL PROTEIN	mg/dL	10	60	110	160	210
HUMAN ALBUMIN	mg/dL	7	42	77	112	147

## ETHANOL STANDARD KIT

List Number 9670

(6 X 5 mL)

Price \$160.00

- protein-based, liquid standards
- intended for ethanol calibration verification or calibration
- suitable for most enzymatic methods
- glycol and azide free
- contains known linear relation for acetaminophen, lactate and salicylate
- 18 month shelf life at 2° to 8°C

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E	LEVEL F
ETHANOL	mg/dL	12	77	96	312	482	600
LINEAR RELATION: acetaminophen, lactate, salicylate	percent dilution	2	13	16	52	80	100



*“The design of Verichem reference materials combines direct NIST verification, the accuracy of gravimetric value assignment and a matrix that most closely simulates normal patient specimens. These characteristics translate directly to the fundamental goal of objectivity and truth in the evaluation of the instrument/reagent system employed by the laboratory.”*

Gary W. Shires, President  
Verified Medical Research, Inc.

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## NEW PRODUCT RELEASE FOR ALL SYSTEMS

**PRODUCT LIST NUMBER:** 9670

**FREE WITH ORDER OF  
TWO KITS OR MORE**

**PRODUCT NAME:** ETHANOL STANDARD KIT

**INTENDED USE:** The Verichem Ethanol Standard Kit is a protein based, in vitro diagnostic product. It is intended for calibration or calibration verification of serum ethanol test systems. This product also contains lactate, salicylate and acetaminophen in a known linear relation.

**KIT SIZE:** Six concentration levels, five milliliters each level.

**PRICE:** \$160.00

**SHELF LIFE:** 18 months

### DESCRIPTION

The Ethanol Standard Kit is the newest addition to Verichem's menu. This accurate, liquid reference material spans the entire clinical range for most serum ethanol test systems. The protein based standards may be treated as patient specimens with any wet chemistry methods.

Verichem's Ethanol Standard kit is unique in design, incorporating the serum-like reactivity of a bovine protein base with the volumetric accuracy of an aqueous matrix. The matrix is bio-synthetic, containing no serum for maximum stability and lot-to-lot duplication. The exclusion of whole serum in this formulation allows Verichem to manufacture its Ethanol Standards as a standard reference material with known values. Concentrations are assigned by volumetric procedure and indicate weight per volume composition using absolute ethanol source material of known purity. This ready-to-use product is also free of surfactants, glycols, azide and other interfering substances.

Verichem's important design creates critical serum ethanol set points at or near decision cut-off concentrations of 0.01, 0.08 and 0.10 percent. The combination of unique matrix formulation and set point design are the key classic features for the absolute determination of clinical test system accuracy, sensitivity, linearity and reportable range. This set is the perfect complement to Verichem's impressive menu of known concentrations having no relation to consensus or assay. Each of the six absolute concentrations is verified using popular clinical methods and available Standard Reference Materials from the National Institute of Standards and Technology (NIST). A lot-specific Certificate of Analysis is included in each kit.

In addition to the ethanol component, Verichem's Ethanol Standard Kit contains known linear relation for lactate, salicylate and acetaminophen. Linear dilution factors were obtained by volumetric dilution of two stock standards. The resultant dilutions possess constant pH and protein content for maximum linearity performance. The dilution ratios, reflecting the relative levels of the three additional components, are stated in the product insert and may be used to determine sensitivity, linearity and reportable range for these assays.

The Ethanol Standard Kit contains one six-level set with five milliliters each level, product insert, Certificate of Analysis and organizer tray. The fluids are packaged in translucent polyethylene dropper vials. Shelf life is 18 months from the date of manufacture at refrigerated temperatures (2° to 8°C)

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E	LEVEL F
ETHANOL	mg/dL	12	77	96	312	482	600
LINEAR RELATION: (acetaminophen, lactate, salicylate)	percent dilution	2	13	16	52	80	100

### ORDERING INFORMATION:

Call Verichem Laboratories Customer Service toll free at (800) 552-5859 or fax to (401) 467-1540

[www.verichemlabs.com](http://www.verichemlabs.com)

**VERICHEM**<sup>®</sup>  
LABORATORIES, INC.

Released March 2010



## NEW PRODUCT RELEASE FOR SYNCHRON SYSTEMS

**PRODUCT LIST NUMBER:** 9440

**PRODUCT NAME:** MULTI-ENZYME VERIFIER KIT

**INTENDED USE:** This liquid product is intended for calibration verification of SYNCHRON DxC, LX and CX Systems and other low range serum enzyme test systems.

**KIT SIZE:** Six concentration levels, five milliliters each level

**PRICE:** \$168.00

**SHELF LIFE:** 14 months

### DESCRIPTION

Verichem's new, six level enzyme control kit is a unique product specifically developed for calibration verification of SYNCHRON DxC, LX and CX Chemistry Systems. It is also suitable for use with other low range systems. The kit contains ALP, ALT, AST, AMY, CK, GGT, LD and Lipase. Customized activities contain at least one point in the normal range. Upper limits of enzyme concentration challenge SYNCHRON Systems with the auto-dilution feature inactivated for proper reportable range verification. Liquid stabilization of the enzymes in a bovine protein matrix produces a convenient, ready-to-use product with a fourteen month shelf life.

Intermediate levels are accurately prepared by volumetric dilution of high and low activity enzyme stocks. Each activity level is then packaged in a multi-use dropper vial. The kit includes a Value Assignment Sheet with ninety-six DxC, LX and CX concentrations.

Enzyme activity is present in a known linear relation which is stated in the kit technical insert. This linear relation is constant for all assay methods and conditions creating a versatile product suitable for calibration verification of other low range chemistry systems such as Cobas Mira and Dimension.

Each kit contains one six-level Multi-Enzyme Verifier Set and one six-level Amylase/Lipase Verifier set for a total of twelve vials (12 X 5 mL). The kit also includes an organizer tray, product insert and Value Assignment Sheet.

Typical activity\* for SYNCHRON LX 20:

ANALYTE	UNITS	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E	LEVEL F
ASPARTATE AMINOTRANSFERASE (AST/GOT)	U/L	6	26	85	203	302	400
ALANINE AMINOTRANSFERASE (ALT/GPT)	U/L	6	26	85	203	302	400
ALKALINE PHOSPHATASE (ALP/AP)	U/L	15	64	212	508	754	1000
LACTATE DEHYDROGENASE (LD/LDH)	U/L	11	48	159	381	565	750
CREATINE PHOSPHOKINASE (CK/CPK)	U/L	18	77	254	609	905	1200
GAMMA GLUTAMYLTRANSFERASE (GGT/GGPT)	U/L	11	48	159	381	565	750
ALPHA-AMYLASE (AMS/AMY)	U/L	12	51	170	406	603	800
LIPASE (LP/LIP)	U/L	10	20	48	105	153	200

\*values shown are approximate

This innovative new product complements Verichem's complete line of fluids and software for calibration verification.

### ORDERING INFORMATION:

Call Verichem Laboratories Customer Service toll free at (800) 552-5859 or fax to (401) 467-1540

[www.verichemlabs.com](http://www.verichemlabs.com)

Released March 2010



## NEW PRODUCT RELEASE FOR ALL SYSTEMS

**PRODUCT LIST NUMBER:** 9560

**PRODUCT NAME:** HDL CHOLESTEROL VERIFIER KIT

**INTENDED USE:** This liquid product is intended for calibration verification of serum HDL cholesterol and LDL cholesterol test systems.

**KIT SIZE:** Six concentration levels, five milliliters each level

**PRICE:** \$210.00

**SHELF LIFE:** 14 months

### DESCRIPTION

Verichem HDL Cholesterol Verifier kit contains high density and low density lipoprotein cholesterol from human serum in a liquid stable format. Volumetric dilution of highest and lowest concentrations provides a known linear relation among this six level set which is intended for calibration verification of most HDL and LDL wet methods.

The serum-like matrix contains a critical blend of purified human serum albumin, human serum globulin and bovine gamma globulin in saline. Protein balance, pH and ion content is constant across all six levels for optimum linearity even with the most sensitive methods. This ready-to-use product is free of surfactants, glycols and azide.

The kit challenges linearity claims for most direct or indirect HDL and LDL cholesterol test systems. Value Assignment Sheet provides expected concentration recovery for direct methods, including AU Chemistry Systems.

Verichem's breakthrough in lipoprotein purification and stabilization is now setting a higher standard for cardiac risk assessment. The HDL Cholesterol Verifier Kit will meet the demands of clinical chemists searching for a convenient, stable product for simultaneous evaluation of these important analytes.

The set point design and matrix formulation represent the cutting edge in lipoprotein reference material. Free of interfering substances, the matrix allows excellent performance with selective precipitation assays. As with all Verichem reference materials, the use of highly purified source components eliminates matrix variations common with serum based products. These inherent properties combine with Verichem's stringent manufacturing tolerances to produce a high quality verifier material with predictable recovery from lot to lot.

The HDL Cholesterol Verifier Kit contains one six-level set with five milliliters each level, product insert, Value Assignment Sheet and organizer tray. The fluids are packaged in translucent polyethylene dropper vials. Shelf life is fourteen months from the date of manufacture at freezer temperatures (-15° to -25°C).

ANALYTE	UNITS	LIST NO.	LIST NO.	LIST NO.	LIST NO.	LIST NO.	LIST NO.
		9561 LEVEL A	9562 LEVEL B	9563 LEVEL C	9564 LEVEL D	9565 LEVEL E	9566 LEVEL F
HDL CHOLESTEROL	mg/dL*	10	42	73	105	131	200
LDL CHOLESTEROL	mg/dL*	20	83	147	210	263	400

\*Typical recovery, values shown are approximate.

This innovative new product complements Verichem's complete line of fluids and software for calibration verification.

#### ORDERING INFORMATION:

Call Verichem Laboratories Customer Service toll free at (800) 552-5859 or fax to (401) 467-1540

[www.verichemlabs.com](http://www.verichemlabs.com)

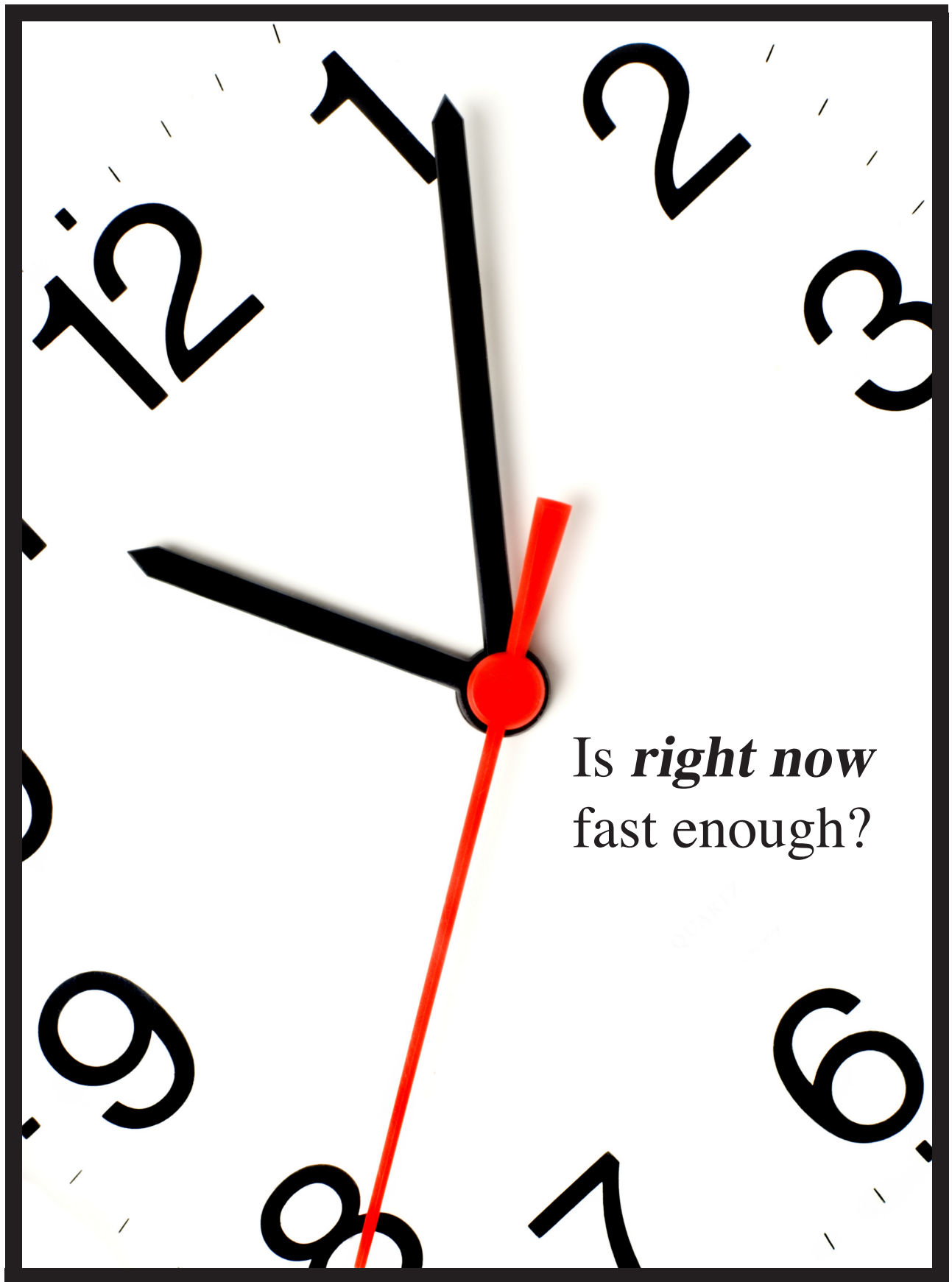
**VERICHEM**<sup>®</sup>  
LABORATORIES, INC.

Released March 2010

## RECOMMENDED PRODUCTS FOR YOUR ANALYZER

Beckman Coulter:	AU Systems (all models)	All products compatible - 9410 Enzyme ER™ Recommended
	DxC / LX / CX (all models)	All products compatible - 9440 Multi-Enzyme Recommended
Roche:	AVL 9180 / 9181	9200 Electrolyte Standard Kit only
	COBAS c501, c311	All products compatible - 9410 Enzyme ER™ Recommended
	COBAS INTEGRA (all models)	
	w/ direct ISE	All products compatible - 9410 Enzyme ER™ Recommended
		Free 9200 with purchase of 9500
	COBAS INTEGRA (all models)	
	w/ indirect ISE	All products compatible - 9410 Enzyme ER™ Recommended
	COBAS MIRA	All products compatible - 9410 Enzyme ER™ Recommended
		Free 9200 with purchase of 9500
	HITACHI (all models)	All products compatible - 9410 Enzyme ER™ Recommended
Siemens:	DIMENSION VISTA (all models)	All products compatible - 9410 Enzyme ER™ Recommended
		Free 9200 with purchase of 9500
	DIMENSION (all models)	
	with Indirect ISE	All products compatible - 9410 Enzyme ER™ Recommended
	with Direct ISE:	All products compatible - 9410 Enzyme ER™ Recommended
		Free 9200 with purchase of 9500
	ADVIA	All products compatible - 9410 Enzyme ER™ Recommended
Abbott:	ARCHITECT*	All products compatible - except 9410 & 9440
	AEROSSET*	All products compatible - except 9410 & 9440
Elan:	ATAC	All products compatible - 9410 Enzyme ER™ Recommended
Medica:	EasyLyte	9200 Electrolyte Standard Kit only
	EasyRA	9500 MP Chemistry Reference and 9200 Electrolyte Kits only
Randox:	DAYTONA	All products compatible - 9410 Enzyme ER™ Recommended
Johnson&Johnson:	VITROS	9200 Electrolyte and 9460 Total Protein/Albumin only
	FUSION	9200 Electrolyte and 9460 Total Protein/Albumin only
Alfa Wassermann:	ACE	All products compatible - 9410 Enzyme ER™ Recommended
Advanced Instruments:	BR2 BILIRUBIN STAT	9450 Bilirubin Standard Kit and 9436 Bilirubin, Level F only
Stanbio:	SIRRUS	All products compatible - 9410 Enzyme ER™ Recommended
Instrumentation Labs:	GEM PREMIER (all models)	9500 MP Chemistry Reference and 9200 Electrolyte Kits
		9670 Ethanol and 9210 Carbon Dioxide Standard Kits
	GEM OPL & PCL PLUS	9500 MP Chemistry Reference and 9200 Electrolyte Kits
		9670 Ethanol and 9210 Carbon Dioxide Standard Kits

\*Abbott Laboratories supplies custom enzyme products for these instruments.



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