

# 9

## Accuracy Based Surveys

“*Instrumentation is at the core of the modern lab. Making sure it does what it's supposed to do is a job for a human being with the right tools.*”

**Anthony A. Killeen, MD, PhD, FCAP**  
Chair  
CAP Instrumentation Resource Committee



---

Learn what committee members say about the CAP's Surveys program. Scan this code or visit [cap.org/accreditation](http://cap.org/accreditation) and follow the links to learn about the scientific expertise behind Surveys.

---

## Accuracy Based Surveys

---

### New Products



---

Expanded HbA <sub>1c</sub> Exercise (ECE3) .....	101
--	-----

## Accuracy Based Surveys

Analytes/procedures in **bold** type are regulated for proficiency testing by the Centers for Medicare & Medicaid Services (CMS).

Accuracy Based Lipids ABL		
Analyte	Product Code	Challenges/Shipment
	<b>ABL</b>	
Apolipoprotein A1	■	3
Apolipoprotein B	■	3
Cholesterol*	■	3
HDL cholesterol*	■	3
LDL cholesterol	■	3
Lipoprotein (a)	■	3
Triglycerides*	■	3
<b>PRICE (USD)</b>	<b>\$438</b>	

\*This analyte will be evaluated against the Centers for Disease Control and Prevention (CDC) reference method.

### Product Information

- Three 1.0-mL human serum specimens
- Two shipments per year

Accuracy Based Vitamin D ABVD		
Analyte	Product Code	Challenges/Shipment
	<b>ABVD</b>	
25-OH Vitamin D (D2 and D3)	■	5
<b>PRICE (USD)</b>	<b>\$406</b>	

### Product Information

- Five 1.0-mL human liquid serum specimens
- Serum is from multidonor endogenous pools
- One shipment per year

### Additional Information

- The Centers for Disease Control and Prevention will establish reference targets using isotope-dilution LC-MS/MS method.
- Specimens are collected by a modified application of Clinical Laboratory and Standards Institute Guideline CLSI C37-A, *Preparation and Validation of Commutable Frozen Human Serum Pools as Secondary Reference Materials for Cholesterol Measurement Procedures; Approved Guideline*.

Neonatal Bilirubin NB, NB2		
Analyte	Challenges/Shipment	
	Product Code	
	NB	NB2
Bilirubin, direct	2	2
<b>Bilirubin, total</b>	5	2
<b>PRICE (USD)</b>	<b>\$210</b>	<b>\$158</b>

One human-based serum specimen will be evaluated against the value assigned using the reference method procedure (*Clin Chem.* 1985;31:1779-1789).

### Product Information

- NB - Five 1.0-mL human serum specimens; three shipments per year
- NB2 - Two 1.0-mL human serum specimens; must order in conjunction with a five-challenge total bilirubin proficiency testing product to meet regulatory requirements; two shipments per year

## Testosterone and Estradiol Accuracy Survey ABS

Analyte	Product Code	Challenges/Shipment
	ABS	
Calcium	■	4
Cortisol	■	4
Estradiol	■	4
Testosterone	■	4
Thyroid stimulating hormone (TSH)	■	4
PRICE (USD)		\$462

### Additional Information

- The Centers for Disease Control and Prevention (CDC) will set target values for testosterone and estradiol using the established reference methods.
- Calcium, cortisol, and TSH data will be provided by peer groups to determine the degree of harmonization in the field.

### Product Information

- Four 1.0-mL human serum specimens
- One shipment per year

## Creatinine Accuracy Calibration Verification/Linearity LN24

Analyte	Product Code	
	LN24	LN24 Target Range
Creatinine	■	0.5–4.0 mg/dL
Estimated glomerular filtration rate (eGFR)	■	
PRICE (USD)		\$410

### Additional Information

The College of American Pathologists and the National Kidney Disease Education Program have an initiative to harmonize clinically reported creatinine values. This initiative is analogous to what the federal health agencies and the clinical laboratory community did to improve the accuracy of cholesterol and glycohemoglobin testing.

### Product Information

- Six 1.0-mL human serum specimens
- Two shipments per year

## Hemoglobin A<sub>1c</sub> Calibration Verification/Linearity LN15

Analyte	Product Code	
	LN15	LN15 Target Range
Hemoglobin A <sub>1c</sub>	■	5%–12%
PRICE (USD)		\$444

This Survey will be evaluated against the National Glycohemoglobin Standardization Program (NGSP) reference method.

### Product Information

- Six 0.8-mL liquid human whole blood specimens
- Two shipments per year

## Hemoglobin A<sub>1c</sub> GH2

Analyte	Product Code	Challenges/Shipment
	GH2	
Hemoglobin A <sub>1c</sub>	■	3
PRICE (USD)		\$212

This Survey will be evaluated against the National Glycohemoglobin Standardization Program (NGSP) reference method.

### Product Information

- Three 0.8-mL liquid human whole blood specimens
- Two shipments per year

## Expanded HbA<sub>1c</sub> Exercise ECE3



Analyte	Product Code	Challenges/Shipment
	ECE3	
Hemoglobin A <sub>1c</sub>	■	2
PRICE (USD)		\$225

### Product Information

- Two 0.8-mL liquid human whole blood specimens
- One shipment per year

### Additional Information

The Expanded HbA<sub>1c</sub> Exercise is an educational opportunity that offers:

- More challenging and/or complex testing
- Comprehensive case studies
- Ability to recognize and integrate problem-solving skills

## Commutable Frozen Serum CFS

Analyte	Product Code	Challenges/Shipment
	CFS	
Albumin	■	1
Bilirubin	■	1
Chloride	■	1
Cortisol	■	1
Creatinine	■	1
Glucose	■	1
Iron	■	1
Magnesium	■	1
Phosphorus	■	1
Potassium	■	1
Protein, total	■	1
Sodium	■	1
T4, total (thyroxine, total)	■	1
Urea nitrogen (BUN)	■	1
Uric acid	■	1
PRICE (USD)		\$216

This material was prepared using a slightly modified CLSI C37-A preparation protocol. Values for 15 measurements have been assigned using reference measurement procedures.

### Product Information

- One 10.0-mL human serum specimen
- Material is from the 2003 Fresh Frozen Serum Study and has been stored at -70°C to ensure stability
- A table of the reference measurement procedures and assigned values is provided to establish traceability of analytical measurement systems
- Order at any time during the year (ships the first Monday of each month)