

## OVERVIEW

Since 1949, the AAB Proficiency Testing Service has made comprehensive external quality control programs available to every individual and clinical laboratory wishing to participate. Updated continuously since their inception, these programs meet the needs of evolving techniques and concepts in the modern laboratory.

**Regulatory Agencies**—The programs noted in the Analyte Index are approved by Centers for Medicare & Medicaid Services (CMS formerly HCFA), and accepted by Commission on Office Laboratory Accreditation (COLA), Joint Commission on Accreditation of Healthcare Organizations (JCAHO), American Association of Laboratory Accreditation (A2LA), and all state agencies.

**The College of American Pathologists** has accepted AAB as an alternative proficiency testing (PT) provider. Be aware that the College of American Pathologists approves alternate PT providers on an analyte by analyte basis. Please review the analyte index on the following pages for specific College of American Pathologists accepted analytes. The most current list can be found at [www.aab-pts.org](http://www.aab-pts.org). Please verify that you are choosing programs with the College of American Pathologists accepted analytes that you need to meet your College of American Pathologists PT requirements. This applies to laboratories being accredited by the College of American Pathologists. AAB is fully accepted by all other entities and accrediting agencies.

Results of each program are mailed to the participants within 21 days of the reporting deadline. Cumulative reports demonstrating performance of the past three testing events for CMS-graded analytes are also included. Participant statistics for the entire population of subscribers, segregated according to methodology for most constituents, are available online.

The programs are designed with the flexibility to satisfy the needs of all laboratories ranging from a one-person specialty laboratory to an automated full-service laboratory. We have structured our programs to conform to CLIA '88. We are aware of the economic impact of proficiency testing on the laboratory and we have strived to make our programs as economical as possible.

In selecting programs, one should be aware of federal and state regulatory requirements. Any questions regarding appropriate programs should be addressed to your State Agency or CMS. As detailed further in this catalog, we are offering two basic types of programs:

- Five challenges per testing event which are required for all CMS graded analytes. These analytes are listed in **BOLD** in the catalog program description.
- One, two or three challenges per testing event which are not reported to CMS.

If for a regulated analyte, your laboratory changes mid-year from a non-waived to a waived method, or if the manufacturer is granted waived status, you must maintain enrollment in a five-challenge program for any remaining non-waived tests in the subspecialty as per CMS regulations.

A confirmation of your subscription will be sent to you and to the proper regulatory authorities. Notify our office if your confirmation is not received within 21 days of order placement.

The only programs available are those listed. Special or modified programs cannot be furnished. If you do not perform analysis of a constituent included in our programs, simply do not submit results for that constituent. All specimens with human blood components, except those used in the Hepatitis Markers, HIV Markers & Oral HIV modules, are negative for HIV antibody, HCV antibody and HBsAg at the donor level.

## ORDERING INFORMATION

To place an order, go to our website at [www.aab-pts.org](http://www.aab-pts.org) to use our online ordering tool, or complete an order form and send it to our mailing address with one of the following:

1. A check for the full amount of the order, or
2. A purchase order with terms of advance payment or net 30 days (payment due 30 days from receipt of order), or
3. Credit Card (American Express, Discover, MasterCard & Visa) information, or
4. Letter of authorization on company letterhead subject to same terms as purchase orders (payment due 30 days from receipt of order).

This is a **prepaid** subscription, thus, no orders will be processed without one of the above payment methods. **Online orders will ONLY be accepted with credit cards and purchase orders. Call 800-234-5315 with credit card information after submitting online order.** Orders may be faxed or emailed if accompanied by a purchase order, credit card payment or letter of authorization. The **Annual Registration Fee** is payable each year and is nonrefundable. Enrollment in previous years does not exempt payment of the registration fee. The fee will be based on the program enrollment. Single shipping events such as Chemistry/Non Chemistry or Andrology/Embryology only will have a base charge. A combination of the two shipping events could incur an additional charge.

**ORDERING INFORMATION - continued**

New account orders must be received by December 3, 2021. However, we recommend that orders be submitted as soon as possible to guarantee specimen availability. Some programs have limited quantities available. Current participants may be subject to late fees for expedited processing when renewals are submitted past the enrollment deadline.

Current 2021 participants will be automatically renewed for 2022 in current year enrollment if renewal order or notification to cancel is not received by September 10, 2021. Autorenewal invoices not paid by January 17, 2022 will not be shipped Q1 2022 samples.

**Attn: Alaska, Hawaii, Canada, Mexico, US Territories and all Foreign participants** – these participants will be surcharged for any costs above those normally incurred for delivery in the continental United States. US Territories are not considered part of the continental United States. If submitting a purchase order, please allow for the shipping surcharges. For specific shipping surcharges, please contact our office by calling 800-234-5315 M-F, 8am-5pm Central Time, or email [customerservice@aab-pts.org](mailto:customerservice@aab-pts.org). All payments are to be in US dollars.

**Attn: US Government, State, County, or City Agencies** – Programs are subscription products. Please include this clause, if applicable, in your purchase order: “Amount claimed is recommended for payment in advance under the exemption from the provisions of 3 U.S. 530, stated in MP4, Part III, Paragraph 3.02.”

**2022 Ship Schedule**

Chemistry & Non Chemistry	Shipping Dates	Last Day for Replacement Specimens	Cut-off Date for Results Submission	Evaluations Returned
Q1 2022	February 1	February 7	February 16	March 11
Q2 2022	May 10	May 16	May 25	June 17
Q3 2022	September 13	September 19	September 28	October 21
**Bacterial cultures ships 1 week prior – Q1 January 25; Q2 May 3; Q3 September 6				
Andrology, Embryology	Shipping Dates	Last Day for Replacement Specimens	Cut-off Date for Results Submission	Evaluations Returned
S1 2022	April 5	April 11	April 20	May 13
S2 2022	October 25	October 31	November 9	December 9

**Bacterial Culture programs ships one week prior to Shipping Dates**

**Important Information** – Participants are responsible for notifying AAB when the testing kit has not been received **within 3 days** of the shipment date. AAB’s primary carrier is UPS and the testing kits are **shipped by 2-day service**. Plan accordingly, as alternate shipping dates cannot be provided.

CMS Regulated	CAP Accepted	Program / Analyte	Specimen Type	Page #
	NR	<b>NR = CAP acceptance not required</b>		
		<b>Adulterated Urine</b>	<b>10 mL liquid specimen</b>	<b>17</b>
		Creatinine, Urine		
		Nitrite, Urine		
		Oxidants		
		pH, Urine		
		Specific Gravity, Urine		
		Interpretation		
		<b>Alcohol</b>	<b>2 mL liquid specimen</b>	<b>17</b>
		Acetone		
CMS		Alcohol (Ethanol)		
		Beta Hydroxybutyrate		
		<b>Ammonia</b>	<b>2 mL liquid specimen</b>	<b>17</b>
		Ammonia, Serum		
		<b>Bilirubin, Direct/Neonatal, 2 vial add-on</b>	<b>1 mL liquid specimen</b>	<b>17</b>
		Bilirubin, Direct		
		Bilirubin, Neonatal		
		Bilirubin, Total		
		<b>Bilirubin, Direct/Neonatal, 5 vial</b>	<b>1 mL liquid specimen</b>	<b>17</b>
		Bilirubin, Direct		
CMS		Bilirubin, Neonatal		
CMS		Bilirubin, Total		
		<b>Blood Gases</b>	<b>1.7 mL liquid specimen</b>	<b>17</b>
		Calcium, Ionized		
		Chloride		
		Glucose		
		Lactate (Lactic Acid), Whole Blood		
CMS		pCO2		
CMS		pH, Blood Gas		
CMS		pO2		
		Potassium		
		Sodium		
		<b>Cardiac Markers</b>	<b>1.5 mL liquid specimen</b>	<b>17</b>
		BNP		
CMS		CK-2/CKMB		
		Myoglobin, Quantitative		
		NT-proBNP		
		Troponin I		
		Troponin T		
		<b>Cardiac Markers, 2-vial</b>	<b>1.5 mL liquid specimen</b>	<b>17</b>
		BNP		
		Myoglobin, Quantitative		
		NT-proBNP		
		Troponin I		
		Troponin T		
		<b>Chemistry, Basic</b>	<b>5 mL liquid specimen</b>	<b>17</b>
CMS		Albumin		
CMS		Alkaline Phosphatase		
CMS		ALT/SGPT		

CMS Regulated	CAP Accepted	Program / Analyte	Specimen Type	Page #
CMS		AST/SGOT		
		Bicarbonate (CO2)		
CMS		Bilirubin, Total		
CMS		Calcium		
CMS		Chloride		
CMS		Cholesterol, Total		
CMS		Creatinine		
CMS		Glucose		
		Phosphorus		
CMS		Potassium		
CMS	CAP	Pregnancy, Serum Qualitative		
CMS		Protein, Total		
CMS		Sodium		
CMS		Triglycerides		
CMS		Urea Nitrogen, Blood		
CMS		Uric Acid		
		<b>Chemistry, Comprehensive</b>	<b>5 mL liquid specimen</b>	<b>18</b>
CMS		Alpha-fetoprotein (AFP)		
CMS		Amylase, Serum/Plasma		
		Bilirubin, Direct		
CMS		Cholesterol, HDL		
CMS		Cortisol		
CMS		Creatine Kinase, Total (CK or CPK)		
		Gamma-Glutamyl Transferase (GGT)		
		Fructosamine, DMF		
		Fructosamine, Polylysine		
CMS	CAP	hCG Test, Serum Quantitative		
CMS		Iron		
CMS		Lactate Dehydrogenase, Total (LD/LDH)		
		Lactic Acid, Serum		
		Lipase		
CMS		Magnesium, mg/dL		
CMS		Magnesium, mEq/L		
CMS		T Uptake		
CMS		T3 (Triiodothyronine), Total		
CMS		T4 (Thyroxin), Free		
CMS		T4 (Thyroxin), Total		
CMS	CAP	Thyroid Stimulating Hormone (TSH)		
		Transferrin		
		TIBC (Total Iron Binding Capacity)		
		UIBC (Unsaturated Iron Binding Capacity)		
		<b>Chemistry, i-STAT waived</b>	<b>1.7 mL liquid specimen</b>	<b>18</b>
		Bicarbonate (CO2)		
		Calcium, Ionized		
		Chloride		
		Creatinine		
		Glucose		
		Hematocrit		
		Hemoglobin		
		Potassium		

CMS Regulated	CAP Accepted	Program / Analyte	Specimen Type	Page #
		Sodium		
		Urea Nitrogen, Blood		
		<b>Chemistry, i-STAT, non-waived</b>	<b>1.7 mL liquid specimen</b>	<b>18</b>
		Bicarbonate (CO2)		
		Calcium, Ionized		
CMS		Chloride		
CMS		Creatinine		
CMS		Glucose		
CMS		Hematocrit		
CMS		Hemoglobin		
		Lactate (Lactic Acid), Whole Blood		
		Magnesium, Ionized		
CMS		pCO2		
CMS		pH, Blood Gas		
CMS		pO2		
CMS		Potassium		
CMS		Sodium		
CMS		Urea Nitrogen, Blood		
		<b>Chemistry, Special</b>	<b>5 mL liquid specimen</b>	<b>18</b>
		Ferritin		
		Folate		
		Homocysteine		
		Human Growth Hormone		
		Pre-albumin		
	CAP	Prolactin		
		Prostate-specific Antigen (PSA), Total		
		T3 (Triiodothyronine), Free		
	CAP	Testosterone, Total		
		Vitamin B12		
		<b>Chemistry, Urine/Fluids</b>	<b>10 mL liquid specimen</b>	<b>19</b>
		Albumin, Fluids		
		Amylase, Urine/Fluids		
		Calcium, Urine		
		Chloride, Urine/Fluids		
		Cholesterol, Fluids		
		Creatinine, Fluids		
		Glucose, Urine/Fluids		
		Lactic Acid, Fluids		
		Lactate Dehydrogenase (LD or LDH), Fluids		
		Magnesium, Urine		
		Osmolality, Urine		
		pH, Fluids		
		Phosphorus, Urine		
		Potassium, Urine		
		Protein, Total, Urine/Fluids		
		Sodium, Urine/Fluids		
		Urea Nitrogen, Urine		
		Uric Acid, Urine/Fluids		
		<b>Chemistry, waived</b>	<b>5 mL liquid specimen</b>	<b>19</b>
		Albumin		

CMS Regulated	CAP Accepted	Program / Analyte	Specimen Type	Page #
		Alkaline Phosphatase		
		ALT/SGPT		
		AST/SGOT		
		Amylase, Serum/Plasma		
		Bicarbonate (CO2)		
		Bilirubin, Total		
		Calcium		
		Chloride		
		Cholesterol, HDL		
		Cholesterol, Total		
		Creatine Kinase, Total (CK or CPK)		
		Creatinine		
		Glucose		
		Lactate Dehydrogenase, Total (LD/LDH)		
		Magnesium, mg/dL		
		Phosphorus		
		Potassium		
		Protein, Total		
		Sodium		
		Triglycerides		
		Urea Nitrogen, Blood		
		Uric Acid		
		<b>C-Reactive Protein, high sensitivity (hs-CRP)</b>	<b>1.5 mL liquid specimen</b>	<b>19</b>
		C-Reactive Protein, high sensitivity (hsCRP)		
		<b>D-dimer</b>	<b>1.5 mL liquid specimen</b>	<b>19</b>
		D-Dimer, Qual		
		D-Dimer, Quant, ng/mL		
		D-Dimer, Quant, ugFEU/mL		
		<b>Drug Monitoring, Therapeutic</b>	<b>5 mL liquid specimen</b>	<b>19</b>
		Acetaminophen		
CMS		Carbamazepine		
CMS		Digoxin		
CMS		Gentamicin		
CMS		Lithium		
CMS		Phenobarbital		
CMS		Phenytoin		
		Salicylates -mg/dL		
CMS		Theophylline		
CMS		Tobramycin		
CMS		Valproic Acid		
		Vancomycin		
		<b>Drug Screen, Urine</b>	<b>10 ml liquid specimen</b>	<b>19</b>
		Acetaminophen		
		Alcohol (Ethanol)		
		Amphetamines		
		Barbiturates		
		Benzodiazepines		
		Buprenorphine		
		Cannabinoids / Marijuana		
		Cocaine Metabolites		

CMS Regulated	CAP Accepted	Program / Analyte	Specimen Type	Page #
		Cotinine		
		Ecstasy (MDMA)		
		Fentanyl		
		K2 Metabolite (UR-144, JWH-073)		
		LSD (Lysergic Acid Diethylamide)		
		6-MAM		
		MDMA (Ecstasy)		
		Methadone		
		Methadone Metabolite		
		Methamphetamine		
		Methaqualone		
		Opiates		
		Oxycodone		
		Phencyclidine (PCP)		
		Pinaca		
		Propoxyphene		
		Tramadol		
		Tricyclic Antidepressants (TCA)		
		Zolpidem		
		<b>Ethyl Glucuronide</b>		<b>20</b>
		Ethyl glucuronide		
		<b>Fertility Endocrinology</b>	<b>5 mL liquid specimen</b>	<b>20</b>
	CAP	DHEA-S		
	CAP	Estradiol		
		Estriol (unconjugated)		
	CAP	Follicle Stimulating Hormone (FSH)		
	CAP	Luteinizing Hormone (LH)		
	CAP	Progesterone		
		<b>Glucose &amp; Hemoglobin, Hemocue, waived</b>	<b>2 ml whole blood</b>	<b>20</b>
		Glucose		
		Hemoglobin		
		<b>Glycohemoglobin, 2-vial</b>	<b>1 mL liquid hemolysate</b>	<b>20</b>
		Glycohemoglobin		
		<b>Glycohemoglobin, 5-vial</b>	<b>1 mL liquid hemolysate</b>	<b>20</b>
		Glycohemoglobin		
		<b>Hemoglobin A1c, Afinion</b>	<b>0.5 mL liquid hemolysate</b>	<b>20</b>
		Hemoglobin A1c, Afinion (HbA1c)		
		<b>Immunochemistry</b>	<b>2 mL lyophilized spec.</b>	<b>20</b>
		C-Peptide		
		Insulin		
		PTH (Parathyroid Hormone)		
		Vitamin D		
		<b>Iron Binding</b>	<b>5 mL liquid specimen</b>	<b>20</b>
		Iron, Binding Capacity, Total (TIBC)		
		Iron, Binding Capacity, Unsaturated (UIBC)		
		Transferrin		
		<b>Lactoferrin, Fecal</b>	<b>Simulated stool specimen</b>	<b>21</b>
		Fecal Lactoferrin		
		<b>Lead, Blood, waived</b>	<b>6 mL liquid hemolysate</b>	<b>20</b>
		Lead, Blood		

CMS Regulated	CAP Accepted	Program / Analyte	Specimen Type	Page #
		<b>Lipids</b>	<b>1.2 ml liquid specimen</b>	<b>20</b>
		Apolipoproteins, A1		
		Apolipoproteins, B		
CMS		Cholesterol, HDL		
		Cholesterol, LDL (Direct)		
		Lipoprotein (a)		
		<b>Microalbumin/Creatinine, Urine</b>	<b>3 ml liquid specimen</b>	<b>20</b>
		Creatinine, Urine		
		Creatinine, Urine, Semiquantitative		
		Microalbumin, Quantitative		
		Microalbumin, Semiquantitative & Qualitative		
		<b>Occult Blood, Fecal</b>	<b>1.5 mL liquid specimen</b>	<b>21</b>
		Fecal Occult Blood (FOB)		
		<b>Occult Blood, Gastric</b>	<b>2 mL liquid specimen</b>	<b>21</b>
		Gastric Occult Blood		
		<b>Oximetry, Blood</b>	<b>1.2 mL liquid specimen</b>	<b>20</b>
		Carboxyhemoglobin		
		Hemoglobin		
		Methemoglobin		
		Oxyhemoglobin		
		<b>p2PSA</b>	<b>1 mL liquid specimen</b>	<b>20</b>
		p2PSA		
		<b>Pregnancy, Serum/Urine</b>	<b>1 mL liquid specimen</b>	<b>21</b>
CMS		Pregnancy, Serum		
CMS	CAP	Pregnancy, Urine		
		<b>Pregnancy, Urine Waived</b>		<b>21</b>
	CAP	Pregnancy, Urine		
		<b>SHBG &amp; Testosterone</b>	<b>5 mL liquid specimen</b>	<b>21</b>
		Sex Hormone Binding Globulin (SHBG)		
		Testosterone, Total		
		Testosterone, Free		
		Testosterone, Bioavailable		
		<b>Tumor Markers</b>	<b>2 mL liquid specimen</b>	<b>21</b>
		Beta-2-microglobulin		
		CA 125		
		CA 15-3		
		CA 19-9		
		CA 27.29		
		Carcinoembryonic Antigen (CEA)		
		Prostate-specific Antigen (PSA), Free		
		Prostatic Acid Phosphatase (PAP)		
		Thyroglobulin		
		<b>Thyroid Antibodies</b>		<b>21</b>
		Thyroglobulin Antibody		
		Thyroid peroxidase Antibody (TPO)		
		<b>Urinalysis</b>	<b>12 mL liquid specimen</b>	<b>21</b>
		Bilirubin, Urine		
		Creatinine, Urine		
		Glucose, Urine		
		Hemoglobin/Blood, Urine		



CMS Regulated	CAP Accepted	Analyte	Program / Specimen Type	Page #
		Ketones		
		Leukocyte Esterase		
		Nitrite		
		pH, Urine		
		Protein, Total, Urine		
		Specific Gravity, Urine		
		Urine Sediment (Microscopic ID)		
		Urobilinogen		
		<b>Whole Blood Glucose, Basic</b>	<b>1 mL liquid specimen</b>	<b>20</b>
		Glucose, Whole Blood		
		<b>Whole Blood Glucose, Comprehensive</b>	<b>1 mL liquid specimen</b>	<b>20</b>
		Glucose, Whole Blood		
<b>PPM</b>				
		<b>Clinical Microscopy</b>	<b>Photos &amp; Digital Image</b>	<b>21</b>
		Fern(ing) Test		
		Fecal Leukocytes		
		KOH Skin Preparation		
		Nasal Eosinophils		
		Pinworm Preparation		
		Sperm, Qualitative (Digital Image)		
		Vaginal Wet Mount		
		<b>Provider Performed Microscopy</b>	<b>Photos &amp; Digital Image</b>	<b>21</b>
		Fern(ing) Test		
		Fecal Leukocytes		
		KOH Skin Preparation		
		Nasal Eosinophils		
		Pinworm Preparation		
		Sperm, Qualitative (Digital Image)		
		Urine Sediment		
		Vaginal Wet Mount		
<b>Coagulation</b>				
		<b>Activated Clotting Time (ACT), 2 vial</b>	<b>2 mL lyophilized specimen</b>	<b>22</b>
		Activated Clotting Time		
		<b>CoaguChek XS/XS Plus, Basic</b>	<b>.5 ml lyophilized specimen</b>	<b>22</b>
		INR		
		Prothrombin Time		
		<b>Coagulation, Plasma</b>	<b>1 mL lyophilized specimen</b>	<b>22</b>
CMS		Activated Partial Thrombin Time (APTT)		
CMS		Fibrinogen		
		INR		
		INR Calculation		
CMS		Prothrombin Time		
		<b>Prothrombin Time, Whole Blood</b>		
CMS		Prothrombin Time		<b>22</b>
		INR		
<b>Hematology</b>				
		<b>Blood Cell Identification</b>	<b>Photomicrographs</b>	<b>22</b>
CMS		Blood Cell Identification		
		Leukocyte (WBC) Differential, Manual		
		<b>Eosinophils, Urine (DigitalScope)</b>	<b>DigitalScope Images</b>	<b>23</b>

CMS Regulated	CAP Accepted	Analyte	Program / Specimen Type	Page #
		Eosinophils, Urine		
		<b>Erythrocyte Sedimentation Rate (ESR)</b>	<b>3 mL whole blood</b>	<b>23</b>
		Erythrocyte Sedimentation Rate (ESR)		
		<b>Erythrocyte Sedimentation Rate (ESR), Rapid</b>	<b>3 mL whole blood</b>	<b>23</b>
		Erythrocyte Sedimentation Rate (ESR), Rapid		
		<b>Fluid Cell Count/Crystals</b>		<b>23</b>
		Erythrocyte (RBC) Count		
		Leukocyte (WBC) Count		
		Crystals Identification		
		<b>Hematology w/Diff A</b>	<b>3 mL whole blood</b>	<b>22</b>
CMS		Erythrocyte (RBC) Count		
CMS		Hematocrit		
CMS		Hemoglobin		
CMS		Leukocyte (WBC) Count		
CMS		Leukocyte (WBC) Differential, Auto		
CMS		Platelet Count		
		<b>Hematology w/Diff B</b>	<b>3 mL whole blood</b>	<b>22</b>
CMS		Erythrocyte (RBC) Count		
CMS		Hematocrit		
CMS		Hemoglobin		
CMS		Leukocyte (WBC) Count		
CMS		Leukocyte (WBC) Differential, Auto		
CMS		Platelet Count		
		<b>Hematology w/Diff C</b>	<b>3 mL whole blood</b>	<b>23</b>
CMS		Erythrocyte (RBC) Count		
CMS		Hematocrit		
CMS		Hemoglobin		
CMS		Leukocyte (WBC) Count		
CMS		Leukocyte (WBC) Differential, Auto		
CMS		Platelet Count		
		<b>Hematology w/Diff D</b>	<b>3 mL whole blood</b>	<b>22</b>
CMS		Erythrocyte (RBC) Count		
CMS		Hematocrit		
CMS		Hemoglobin		
CMS		Leukocyte (WBC) Count		
CMS		Leukocyte (WBC) Differential, Auto		
CMS		Platelet Count		
		<b>Hematology w/Diff E</b>	<b>3 mL whole blood</b>	<b>23</b>
CMS		Erythrocyte (RBC) Count		
CMS		Hematocrit		
CMS		Hemoglobin		
CMS		Leukocyte (WBC) Count		
CMS		Leukocyte (WBC) Differential, Auto		
CMS		Platelet Count		
		<b>Hematology w/Diff G</b>	<b>3 mL whole blood</b>	<b>23</b>
CMS		Erythrocyte (RBC) Count		
CMS		Hematocrit		
CMS		Hemoglobin		
CMS		Leukocyte (WBC) Count		
CMS		Leukocyte (WBC) Differential, Auto		

CMS Regulated	CAP Accepted	Analyte	Program / Specimen Type	Page #
CMS		Platelet Count		
		<b>Hemoglobin &amp; Hematocrit</b>	<b>3 mL whole blood</b>	<b>23</b>
CMS		Hematocrit		
CMS		Hemoglobin		
		<b>Hemoglobin &amp; Hematocrit, waived</b>	<b>3 mL whole blood</b>	<b>23</b>
		Hematocrit		
		Hemoglobin		
		<b>Reticulocytes, Automated</b>	<b>1 mL whole blood</b>	<b>23</b>
		Reticulocytes, Automated		
		Reticulocytes, Manual - Digital Image		
		<b>Reticulocytes, Manual</b>	<b>1 mL whole blood</b>	<b>23</b>
		Reticulocytes, Manual		
		Reticulocytes, Manual - Digital Image		
		<b>Reticulocytes, Sysmex</b>	<b>1 mL whole blood</b>	<b>23</b>
		Reticulocytes, Automated		
		Reticulocytes, Manual - Digital Image		
		<b>Sickle Cell Screen</b>	<b>2 mL whole blood</b>	<b>23</b>
		Sickle Cell Screen		
<b>Immunochemistry</b>				
		<b>D (Rh) Typing Only</b>	<b>1 mL washed red cells</b>	<b>23</b>
CMS		D (Rh) Typing		
		<b>Direct Antiglobulin Test (DAT)</b>	<b>1 mL washed red cells</b>	<b>23</b>
		Direct Antiglobulin		
		<b>Immunochemistry, Basic</b>	<b>1.5 ml serum &amp; red cells</b>	<b>24</b>
CMS		ABO Typing		
CMS		D (Rh) Typing		
		<b>Immunochemistry, Comprehensive</b>	<b>1.5 ml serum &amp; red cells</b>	<b>24</b>
CMS		ABO Typing		
CMS		Compatibility Testing (Crossmatch)		
CMS		D (Rh) Typing		
CMS		Unexpected Antibody Detection		
CMS		Unexpected Antibody Identification		
		<b>Immunochemistry, Comprehensive, Plus</b>	<b>1.5 ml serum &amp; red cells</b>	<b>24</b>
CMS		ABO Typing		
CMS		Compatibility Testing (Crossmatch)		
CMS		D (Rh) Typing		
CMS		RBC Antigen Typing		
CMS		Unexpected Antibody Detection		
CMS		Unexpected Antibody Identification		
<b>Immunology/Serology</b>				
		<b>Antinuclear Antibody (ANA)</b>	<b>0.6 mL liquid specimens</b>	<b>24</b>
CMS		Antinuclear Antibody (ANA) Screen		
		Anti-dsDNA		
		Anti-ssDNA		
		Anti-RNP		
		Anti-SM		
		Anti-RNP/SM		
		Anti-SSA		
		Anti-SSB		

CMS Regulated	CAP Accepted	Analyte	Program / Specimen Type	Page #
		Anti-SSA/SSB		
		IFA Pattern		
		<b>Anti-Streptolysin O (ASO)</b>	<b>1 mL liquid specimen</b>	<b>24</b>
CMS		Antistreptolysin O (ASO)		
		<b>COVID-19 Antibody</b>		<b>25</b>
		SARS-CoV-2 Antibody		
		<b>C-Reactive Protein (CRP)</b>	<b>0.5 mL liquid specimen</b>	<b>24</b>
		C-Reactive Protein (CRP), Qualitative		
		C-Reactive Protein (CRP), Quantitative		
		<b>Diagnostic Immunology</b>	<b>Separate vials per analyte</b>	<b>24</b>
CMS		Antistreptolysin O (ASO)	1 ml liquid specimen	
		C-Reactive Protein (CRP), Qualitative	0.5 ml liquid specimens	
		C-Reactive Protein (CRP), Quantitative		
CMS		Infectious Mononucleosis	0.6 mL liquid specimen	
CMS		Rheumatoid Factor (RF), Qualitative	1 ml liquid specimen	
CMS		Rheumatoid Factor (RF), Quantitative, titer		
		Rheumatoid Factor (RF), Quantitative, u/mL		
		<b>Diagnostic Allergy</b>		<b>24</b>
		Allergen Specific IgE + Total IgE		
		<b>Specific Allergen Testing</b>		<b>25</b>
		Allergen Specific IgE		
		<b>Immunoproteins</b>	<b>1 mL liquid specimen</b>	<b>24</b>
CMS		Complement C3		
CMS		Complement C4		
CMS		IgA		
CMS		IgE		
CMS		IgG		
CMS		IgM		
		<b>Mononucleosis, Infectious</b>	<b>0.6 mL liquid specimen</b>	<b>24</b>
CMS		Infectious Mononucleosis		
		<b>Mononucleosis, Infectious, Waived</b>	<b>0.6 mL liquid specimen</b>	<b>24</b>
		Infectious Mononucleosis		
		<b>Rheumatoid Factor</b>	<b>1 mL liquid specimen</b>	<b>25</b>
CMS		Rheumatoid Factor (RF), Qualitative		
CMS		Rheumatoid Factor (RF), Quantitative, titer		
		Rheumatoid Factor (RF), Quantitative, u/mL		
		<b>Helicobacter pylori Antibody</b>	<b>0.5 mL liquid specimen</b>	<b>25</b>
		Helicobacter Pylori Antibody		
		<b>Hepatitis Markers</b>	<b>1.5 mL liquid specimen</b>	<b>25</b>
		Hepatitis, Anti-HAV, IgM		
		Hepatitis, Anti-HAV, Total		
CMS		Hepatitis, Anti-HBc, IgM		
CMS		Hepatitis, Anti-HBc, Total		
		Hepatitis, Anti-HBs		
		Hepatitis, Anti-HCV		
CMS		Hepatitis, HBeAg		
CMS		Hepatitis, HBsAg		
		<b>HIV Antibodies, Oral Fluid</b>	<b>1 mL liquid specimen</b>	<b>25</b>
CMS		HIV, Oral Fluids (confirmation)		
CMS		HIV, Oral Fluids (screening)		

CMS Regulated	CAP Accepted	Program / Analyte	Specimen Type	Page #
		<b>HIV Markers, Rapid/Waived</b>	<b>1 mL liquid specimen</b>	<b>25</b>
		HIV, Anti-HIV 1, Waived		
		HIV, p24 Antigen, Waived		
		<b>HIV Markers</b>	<b>1 mL liquid specimen</b>	<b>25</b>
CMS		HIV, Anti-HIV 1 (confirmation)		
CMS		HIV, Anti-HIV 1 or 1/2 (screening)		
		HIV, p24 Antigen		
		<b>Lyme Disease</b>	<b>0.6 mL liquid specimen</b>	<b>25</b>
		Lyme Disease		
		<b>Mycoplasma Antibody</b>	<b>0.5 mL lyophilized specimen</b>	<b>25</b>
		Mycoplasma antibody		
		<b>Rubella</b>	<b>1 mL liquid specimen</b>	<b>24</b>
CMS		Rubella, IgG		
		<b>Syphilis Serology</b>	<b>1 mL liquid specimen</b>	<b>25</b>
CMS		Syphilis, Qualitative		
CMS		Syphilis, Quantitative		
		<b>ToRCH</b>	<b>1 mL liquid specimen</b>	<b>25</b>
		Cytomegalovirus		
		Herpes Simplex Virus, Type I, IgG		
		Herpes Simplex Virus, Type I, IgM		
		Herpes Simplex Virus, Type I/II, IgG		
		Herpes Simplex Virus, Type I/II, IgM		
		Rubella, IgM		
		Toxoplasma		
<b>Microbiology</b>				
		<b>Acid Fast Smears</b>	<b>Glass slides-unstained</b>	<b>28</b>
CMS		Acid-Fast Bacteria/Smears		
		<b>Vaginosis</b>	<b>Swap specimen</b>	<b>28</b>
		Candida		
CMS		Gardnerella		
		Trichomonas		
		<b>Bacteriology</b>	<b>Swab specimen &amp; diluent</b>	<b>26</b>
CMS		Antimicrobial Susceptibility		
CMS		Organism Identification, Stool Culture		
CMS		Organism Identification, Blood Culture		
CMS		Organism Identification, CSF Culture		
CMS		Organism Identification, Genital Culture		
CMS		Organism Identification, Throat Culture		
CMS		Organism Identification, Urine Culture		
CMS		Organism Identification, Wound Culture		
		<b>Bacteriology, Complete</b>	<b>Swab specimen &amp; diluent</b>	<b>26</b>
CMS		Antimicrobial Susceptibility		
CMS		Organism Identification, Stool Culture		
CMS		Organism Identification, Blood Culture		
CMS		Organism Identification, CSF Culture		
CMS		Organism Identification, Genital Culture		
CMS		Organism Identification, Throat Culture		
CMS		Organism Identification, Urine Culture		
CMS		Organism Identification, Wound Culture		
		Antimicrobial Susceptibility, supplemental		

CMS Regulated	CAP Accepted	Program / Analyte	Specimen Type	Page #
CMS		Gram Stain Identification		
		Gram Stain Organism Morphology		
		Strep Group A, Antigen Screen		
		<b>Blood Culture, supplemental</b>	<b>Lyophilized pellet &amp; diluent</b>	<b>26</b>
		Blood Culture, supplemental		
		<b>Campylobacter, add on</b>	<b>Swab specimen &amp; diluent</b>	<b>26</b>
		Campylobacter		
		<b>C. Difficile Toxin Antigen, 5 vial</b>	<b>1 mL lyophilized specimen</b>	<b>27</b>
CMS		C Difficile Toxin A Antigen Detection		
CMS		C Difficile Toxin B Antigen Detection		
		<b>Chlamydia/GC/Strep Group B Antigen Screen</b>	<b>Swab specimen</b>	<b>27</b>
CMS		Chlamydia Antigen Screen		
CMS		GC Antigen Screen		
CMS		Strep Group B, Antigen Screen		
		<b>COVID-19 Antigen, Rapid Test</b>		<b>29</b>
		SARS-CoV-2		
		<b>COVID-19 Detection, Molecular</b>		<b>29</b>
		SARS-CoV-2		
		<b>Colony Count, Urine</b>	<b>Lyophilized pellet &amp; diluent</b>	<b>27</b>
		Colony Count, Urine		
		Organism Identification, Urine Culture		
		<b>Genital Culture</b>	<b>Swab specimen &amp; diluent</b>	<b>26</b>
CMS		Organism Identification, Genital Culture		
		<b>Gram Stain</b>	<b>5 Glass slides</b>	<b>27</b>
CMS		Gram Stain Identification		
		Gram Stain Organism Morphology		
CMS		<b>Legionella Antigen Detection</b>		<b>27</b>
		Legionella Antigen		
		<b>MRSA</b>	<b>Swab specimen &amp; diluent</b>	<b>28</b>
		Methicillin Resistant S. aureus		
		<b>Rotavirus, 2 vial add-on</b>	<b>1 mL lyophilized specimen</b>	<b>29</b>
		Rotavirus Antigen Screen		
		<b>Rotavirus, 5 vial</b>	<b>1 mL lyophilized specimen</b>	<b>29</b>
CMS		Rotavirus Antigen Screen		
		<b>Shiga Toxin</b>	<b>1 mL liquid specimen</b>	<b>28</b>
		Shiga Toxin		
		<b>Strep Group A, Antigen Screen</b>	<b>Swab specimen</b>	<b>28</b>
CMS		Strep Group A, Antigen Screen		
		<b>Strep Group A, Antigen Screen, waived</b>	<b>Swab specimen</b>	<b>28</b>
		Strep Group A, Antigen Screen		
CMS		<b>Streptococcus pneumoniae Antigen</b>		<b>27</b>
		Strep pneumoniae antigen		
		<b>Throat Culture</b>	<b>Swab specimen &amp; diluent</b>	<b>26</b>
CMS		Organism Identification, Throat Culture		
		<b>Throat/Urine Culture</b>	<b>Swab specimen &amp; diluent</b>	<b>27</b>
CMS		Antimicrobial Susceptibility		
CMS		Organism Identification, Throat Culture		
CMS		Organism Identification, Urine Culture		

CMS Regulated	CAP Accepted	Program / Analyte	Specimen Type	Page #
		<b>Urine Culture</b>	<b>Swab specimen &amp; diluent</b>	<b>27</b>
CMS		Antimicrobial Susceptibility		
CMS		Organism Identification, Urine Culture		
		<b>Urease, Rapid (CLO Test)</b>	<b>Simulated tissue specimen</b>	<b>28</b>
		Urease		
		<b>Viral Antigen Screen</b>	<b>1 mL lyophilized specimen</b>	<b>29</b>
CMS		Adenovirus Antigen Screen		
CMS		Influenza, Type A, Antigen Screen		
CMS		Influenza, Type B, Antigen Screen		
CMS		Respiratory Syncytial Virus (RSV) Antigen		
		<b>Viral Antigen Screen, Waived</b>	<b>1 mL liquid specimen</b>	<b>29</b>
		Adenovirus Antigen Screen		
		Influenza, Type A, Antigen Screen, Waived		
		Influenza, Type B, Antigen Screen, Waived		
		Respiratory Syncytial Virus (RSV) Antigen, Waived		
<b>Mycology</b>				
		<b>Dermatophyte Culture</b>		<b>28</b>
CMS		Dermatophyte culture		
		<b>KOH Preparation</b>	<b>Glass slide for testing</b>	<b>28</b>
		KOH Preparation		
<b>Parasitology</b>				
		<b>Cryptosporidium/Giardia Immunoassay</b>	<b>Formalin fecal specimen</b>	<b>28</b>
CMS		Cryptosporidium Immunoassay		
CMS		Giardia Immunoassay		
		<b>Parasitology</b>	<b>Formalin &amp; PVA specimen</b>	<b>28</b>
CMS		Parasitology	<b>&amp; Digital Scope Images</b>	
<b>Andrology/Embryology</b>				
		<b>Antisperm Antibody</b>	<b>Liquid specimen</b>	<b>29</b>
	NR	Antisperm Antibody		
		<b>Embryo Grading</b>	<b>Video image</b>	<b>29</b>
	NR	Embryo Grading		
		<b>Fetal Fibronectin (fFN)</b>	<b>Liquid specimen</b>	<b>29</b>
	CAP	Fetal Fibronectin (fFN)		
		<b>Fetal Membrane Rupture Test</b>	<b>0.5 mL liquid specimen</b>	<b>29</b>
	NR	Fetal Membrane Rupture (PAMG-1)		
		<b>IVF Embryo Culture Media</b>	<b>100 mL culture media</b>	<b>29</b>
	NR	IVF, Human Sperm Cell Survival, Media Accept		
	NR	IVF, Mouse Embryo, Media Acceptability		
		<b>Preimplantation Genetic Testing - Aneuploidy</b>	<b>5uL liquid specimen</b>	<b>29</b>
		Sex Status		
		Euploid or Aneuploid Status		
		Chromosome addition or deletion		
		<b>Sperm Count/Post Vasectomy</b>	<b>Liquid specimen</b>	<b>29</b>
	CAP	Sperm Count, Qualitative (Post Vasectomy)		
		<b>Sperm Count</b>	<b>Liquid spec. &amp; Digital video</b>	<b>30</b>
	CAP	Sperm Count, Quantitative		
		Sperm Count, Qualitative		
		<b>Sperm Morphology</b>	<b>Glass slide &amp; Digital slide</b>	<b>30</b>
	NR	Sperm Morphology, %		
	NR	Sperm Morphology, Cell ID		

<b>CMS Regulated</b>	<b>CAP Accepted</b>	<b>Analyte</b>	<b>Program /</b>	<b>Specimen Type</b>	<b>Page #</b>
		<b>Sperm Motility</b>		<b>Video Image</b>	<b>30</b>
	NR	Sperm Motility			
	NR	Sperm Motility, Forward Progression %			
	NR	Sperm Motility, Forward Progression, semi-quant.			
		<b>Sperm Viability</b>		<b>Glass slide &amp; Digital slide</b>	<b>30</b>
	CAP	Sperm Viability			
<b>Specialty</b>					
		<b>WB Glucose, Basic-EQAS (Multi-site)</b>		<b>1 mL liquid specimen</b>	<b>30</b>
		Glucose, Whole Blood			



**CHEMISTRY PROGRAMS**

**BOLD analytes are reported to CMS**

**Δ - denotes Point of Care Testing/Waived Programs**

**ADULTERATED URINE TEST [1216].....\$205** *2 challenges per testing event*

For use with adulterant detection methods testing the following analytes:

Creatinine, urine	Nitrates, urine	Oxidants
pH, urine	Specific Gravity, Urine	

**ALCOHOL [1901] .....\$362** *5 challenges per testing event*

Liquid serum samples for analysis of **Ethanol** and Acetone, including Beta Hydroxybutyrate.

**AMMONIA, BLOOD [1974].....\$166** *2 challenges per testing event*

Liquid samples for analysis of Ammonia.

**BILIRUBIN, DIRECT/NEONATAL 2-VIAL [1963].....\$124** *2 challenges per testing event*

Liquid samples for analysis of Total/Neonatal and Direct Bilirubin. This is a targeted program.

*Not for CMS reporting of Total/Neonatal Bilirubin. This program must be ordered with Basic or Comprehensive Chemistry as Supplemental testing.*

**BILIRUBIN, DIRECT/NEONATAL 5-VIAL [1211].....\$226** *5 challenges per testing event*

Liquid samples for analysis of **Total/Neonatal Bilirubin** and Direct Bilirubin for those labs needing 5 samples for reporting. This is a targeted program.

**BLOOD GASES [1902].....\$452** *5 challenges per testing event*

Aqueous samples for the following analytes (2 sets):

Chloride	Lactate	pO <sub>2</sub>
Glucose	pCO <sub>2</sub>	Potassium
Ionized Calcium	pH	Sodium

**CARDIAC MARKERS, 2-VIAL [1134].....\$219** *2 challenges per testing event*

CAP accredited laboratories must enroll in the 5 vial program for CAP acceptance. Liquid samples compatible with the following analytes:

BNP	Pro-BNP	Troponin T
Myoglobin	Troponin I	

**CARDIAC MARKERS, 2-VIAL with hs-CRP form only [1802].....\$274**

**CARDIAC MARKERS, 2-VIAL with D-dimer form only [1815].....\$243**

**CARDIAC MARKERS, 2-VIAL with D-dimer & hs-CRP forms only [1817].....\$297**

**CARDIAC MARKERS, 5-VIAL [1910].....\$337** *5 challenges per testing event*

Samples are compatible with all methods & instruments. Liquid samples for qualitative and quantitative analysis of the following analytes:

BNP	Myoglobin	Troponin I
CK-2/CK-MB	Pro-BNP	Troponin T

**CARDIAC MARKERS, 5-VIAL with hs-CRP form only [1803].....\$391**

**CARDIAC MARKERS, 5-VIAL with D-dimer form only [1816].....\$361**

**CARDIAC MARKERS, 5-VIAL with D-dimer & hs-CRP forms only [1818].....\$415**

**CHEMISTRY, BASIC [1903].....\$281** *5 challenges per testing event*

Liquid serum samples for the following analytes:

<b>Alanine Aminotransferase (ALT/SGPT)</b>	<b>Chloride</b>	<b>Protein, Total</b>
<b>Albumin</b>	<b>Cholesterol, Total</b>	<b>Sodium</b>
<b>Alkaline Phosphatase</b>	<b>Creatinine</b>	<b>Triglycerides</b>
<b>Aspartate Aminotransferase (AST/SGOT)</b>	<b>Glucose</b>	<b>Urea Nitrogen (BUN)</b>
Bicarbonate	Phosphorus	<b>Uric Acid</b>
<b>Bilirubin, Total</b>	<b>Potassium</b>	
<b>Calcium</b>	<b>Pregnancy, Serum (Qualitative hCG)</b>	

**CHEMISTRY, BASIC with Lipids [1804].....\$358**

**CHEMISTRY, BASIC with Iron Binding Capacity (TIBC/UIBC) [1805].....\$336**

**CHEMISTRY, BASIC with Drug Monitoring, Therapeutic (TDM) [1806].....\$381**

**CHEMISTRY, BASIC with Lipids & TIBC/UIBC [1819].....\$413**

**CHEMISTRY PROGRAMS****BOLD analytes are reported to CMS**

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CHEMISTRY, BASIC with Lipids & TDM [1820].....\$458  
 CHEMISTRY, BASIC with TDM & TIBC/UIBC [1821].....\$513  
 CHEMISTRY, BASIC with Lipids, TDM & TIBC/UIBC [1822].....\$590

CHEMISTRY, COMPREHENSIVE [1904].....\$314 *5 challenges per testing event*

Liquid serum samples for analysis of the following analytes:

<b>Alpha-fetoprotein (AFP)</b>	Gamma Glutamyl-transferase (GT/GGT)	<b>Magnesium</b>
<b>Amylase</b>	<b>Human Chorionic Gonadotropin (hCG)</b>	<b>Thyroxine, Free (FT4)</b>
Bilirubin, Direct (not targeted)	<b>Iron</b>	<b>Thyroxine, Total (TT4)</b>
<b>Cholesterol, HDL (not targeted)</b>	Iron Binding Capacity (not targeted)	<b>TSH (Thyroid Stimulating Hormone)</b>
<b>Cortisol</b>	<b>Lactate Dehydrogenase (LD/LDH)</b>	<b>T Uptake</b>
<b>Creatine Kinase (CK/CPK)</b>	Lactic Acid	<b>Triiodothyronine, Total (TT3)</b>
Fructosamine	Lipase	Transferrin (not targeted)

CHEMISTRY, COMPREHENSIVE with Lipids [1807].....\$391  
 CHEMISTRY, COMPREHENSIVE with Iron Binding Capacity (TIBC/UIBC) [1808].....\$369  
 CHEMISTRY, COMPREHENSIVE with Drug Monitoring, Therapeutic (TDM) [1809].....\$413  
 CHEMISTRY, COMPREHENSIVE with Lipids & TIBC/UIBC [1823].....\$446  
 CHEMISTRY, COMPREHENSIVE with Lipids & TDM [1824].....\$490  
 CHEMISTRY, COMPREHENSIVE with TDM & TIBC/UIBC [1825].....\$468  
 CHEMISTRY, COMPREHENSIVE with Lipids, TDM & TIBC/UIBC [1826].....\$545

CHEMISTRY, BASIC & COMPREHENSIVE [1905].....\$450 *5 challenges per testing event*

Liquid serum samples for all analytes listed under Basic & Comprehensive Chemistry Surveys. One vial set with two forms.

CHEMISTRY, BASIC & COMPREHENSIVE with Lipids [1810].....\$527  
 CHEMISTRY, BASIC & COMPREHENSIVE with Iron Binding Capacity (TIBC/UIBC) [1811].....\$505  
 CHEMISTRY, BASIC & COMPREHENSIVE with Drug Monitoring, Therapeutic (TDM) [1812].....\$549  
 CHEMISTRY, BASIC & COMPREHENSIVE with Lipids & TIBC/UIBC [1827].....\$582  
 CHEMISTRY, BASIC & COMPREHENSIVE with Lipids & TDM [1828].....\$626  
 CHEMISTRY, BASIC & COMPREHENSIVE with TDM & TIBC/UIBC [1829].....\$600  
 CHEMISTRY, BASIC & COMPREHENSIVE with Lipids, TDM & TIBC/UIBC [1830].....\$677

CHEMISTRY, I-STAT [1993].....\$348 *5 challenges per testing event*

Liquid samples for the following analytes:

Bicarbonate (TCO2)	<b>Hematocrit</b>	<b>pO2</b>
Calcium, Ionized	<b>Hemoglobin</b>	<b>Potassium</b>
<b>Chloride</b>	Lactate	<b>Sodium</b>
<b>Creatinine</b>	<b>pH</b>	<b>Urea Nitrogen (BUN)</b>
<b>Glucose</b>	<b>pCO2</b>	

Δ CHEMISTRY, I-STAT, WAIVED [1115].....\$213 *2 challenges per testing event*

Liquid samples for the following analytes using waived methods only:

Bicarbonate (TCO2)	Glucose	Potassium
Calcium, Ionized	Hematocrit	Sodium
Chloride	Hemoglobin	Urea Nitrogen (BUN)
Creatinine	Lactic Acid	

CHEMISTRY, SPECIAL [1911].....\$214 *2 challenges per testing event*

Liquid samples for the following analytes:

Ferritin	Pre-Albumin	Triiodothyronine, Free (FT3)
Folate	Prolactin	Vitamin B12
Homocysteine	Prostate-specific Antigen (PSA)	
Human Growth Hormone	Testosterone, Total	

**CHEMISTRY PROGRAMS****BOLD analytes are reported to CMS**

Δ - denotes Point of Care Testing/Waived Programs

**CHEMISTRY, URINE/FLUIDS [1975].....\$258***3 challenges per testing event*

Enroll in either the Basic or Comprehensive Chemistry if CMS reporting is required for the above listed analytes. 2 liquid urine samples and 1 liquid fluids sample for the following analytes:

Albumin ◊	Lactic Acid ◊	Sodium
Amylase	Lactate Dehydrogenase (LD/LDH) ◊	Total Protein
Calcium *	Magnesium *	Triglycerides ◊
Chloride	Osmolality *	Urea Nitrogen*
Cholesterol ◊	pH ◊	Uric Acid
Creatinine ◊	Phosphorus *	
Glucose	Potassium *	

◊ - Body Fluid only    \* - Urine only

**CHEMISTRY, URINE/FLUIDS with Microalbumin/Creatinine, Urine [1813].....\$312****Δ CHEMISTRY, WAIVED [1126].....\$133***2 challenges per testing event***NOTE: this is for waived methods & instruments only.**

Cholestech Waived users do not need to enroll in separate Lipids analytes program.

Liquid serum samples for the following analytes:

Alanine Aminotransferase (ALT/SGPT)	Chloride	Potassium
Albumin	Cholesterol, HDL	Sodium
Alkaline Phosphatase	Cholesterol, Total	Total Protein
Aspartate Aminotransferase (AST/SGOT)	Creatine Kinase (CK)	Triglycerides
Amylase	Glucose	Urea Nitrogen
Bicarbonate (CO2)	Lactate Dehydrogenase (LD)	Uric Acid
Bilirubin, Total	Magnesium	
Calcium	Phosphorous	

**Δ CHEMISTRY, WAIVED with Pregnancy, Urine Waived [1814].....\$179****C-REACTIVE PROTEIN, HIGH SENSITIVITY [1971].....\$138***2 challenges per testing event*

Liquid serum samples. This program targets high sensitivity C-Reactive Protein methods only. For acute inflammatory CRP, please order regular CRP under Diagnostic Immunology.

**D-DIMER [1976] .....\$168***2 challenges per testing event*

Liquid plasma samples for qualitative and quantitative analysis of D--Dimer. Laboratories performing semi-quantitative analysis need to report as qualitative.

**DRUG MONITORING, THERAPEUTIC [1912].....\$236***5 challenges per testing event*

Liquid serum samples for the following analytes:

Acetaminophen	<b>Lithium</b>	<b>Tobramycin</b>
<b>Carbamazepine</b>	<b>Phenobarbital</b>	<b>Valproic Acid</b>
<b>Digoxin</b>	<b>Phenytoin</b>	Vancomycin
<b>Gentamicin</b>	Salicylates	
Lidocaine	<b>Theophylline</b>	

**Δ DRUG SCREEN, URINE [1914].....\$278***2 challenges per testing event*

Liquid samples for the following analytes:

Acetaminophen	Fentanyl	Opiates
Alcohol	K2 metabolite (UR-144, JWH-073)	Oxycodone
Amphetamines	LSD	Phencyclidine
Barbituates	6-MAM	Pinaca
Benzodiazepines	MDMA (Ecstasy)	Propoxyphene
Buprenorphine	Methadone	Tramadol
Cannabinoids	Methadone Metabolite	Tricyclic Antidepressants
Cocaine Metabolite	Methamphetamine	Zolpidem
Cotinine	Methaqualone	

**CHEMISTRY PROGRAMS**

**BOLD analytes are reported to CMS**

**Δ - denotes Point of Care Testing/Waived Programs**

<b>Δ ETHYL GLUCORONIDE – ADD-ON [873]</b> .....	<b>\$78</b>	<i>2 challenges per testing event</i>
Liquid serum samples for ethyl glucuronide. Must be enrolled in Drug Scree, Urine. <b>Program fulfilled through Medical Laboratory Evaluation (MLE).</b>		
<b>FERTILITY ENDOCRINOLOGY [1907]</b> .....	<b>\$226</b>	<i>2 challenges per testing event</i>
Liquid serum samples for the following analytes:		
DHEA-S	Follicle Stimulating Hormone (FSH)	Progesterone
Estradiol	Leutinizing Hormone (LH)	
<b>Δ GLUCOSE &amp; HEMOGLOBIN, HEMOCUE, WAIVED [1217]</b> .....	<b>\$167</b>	<i>2 challenges per testing event</i>
Whole blood samples for testing hemoglobin and glucose on the HemoCue waived method analyzer		
<b>Δ GLUCOSE, WB, BASIC [1916], Waived</b> .....	<b>\$106</b>	<i>2 challenges per testing event</i>
For reporting Whole Blood Glucose procedures only. <b>For multiple analyzer testing, see Specialty Testing section at the end of the catalog.</b>		
<b>GLUCOSE, WB, COMPREHENSIVE [1918], Regulated</b> .....	<b>\$205</b>	<i>5 challenges per testing event</i>
For reporting Whole Blood Glucose procedures only.		
<b>GLYCOHEMOGLOBIN, 2-VIAL [1909]</b> .....	<b>\$200</b>	<i>2 challenges per testing event</i>
Samples for analysis of glycohemoglobin (GHb, HbA, Hgb A1c). <i>Samples are not compatible with the Piccolo and the Axishield Afinion.</i>		
<b>GLYCOHEMOGLOBIN, 5-VIAL [1197]</b> .....	<b>\$368</b>	<i>5 challenges per testing event</i>
Samples for analysis of glycohemoglobin (GHb, HbA, Hgb A1c). <i>Samples are not compatible with the Piccolo and the Axishield Afinion.</i>		
<b>HEMOGLOBIN A1C, AFINION [1110]</b> .....	<b>\$210</b>	<i>2 challenges per testing event</i>
Samples for Hemoglobin A1C assay (HgbA1c) with Afinion only		
<b>IMMUNOCHEMISTRY [1989]</b> .....	<b>\$194</b>	<i>2 challenges per testing event</i>
Lyophilized samples for the following analytes:		
C-peptide	PTH	
Insulin	Vitamin D	
<b>IRON BINDING CAPACITY [1981]</b> .....	<b>\$157</b>	<i>2 challenges per testing event</i>
Liquid serum samples for the following targeted analytes:		
Transferrin	TIBC (Total Iron Binding Capacity)	UIBC (Unsaturated Iron Binding Capacity)
<b>Δ LEAD, BLOOD, WAIVED [1992]</b> .....	<b>\$241</b>	<i>2 challenges per testing event</i>
Whole blood samples for analysis of blood lead levels using waived methods only. <b>For use with waived testing methods only.</b>		
<b>LIPIDS [1961]</b> .....	<b>\$159</b>	<i>5 challenges per testing event</i>
Liquid serum samples for the following analytes:		
Lipoprotein (a)	Apolipoproteins A1 & B	
<b>HDL Cholesterol</b>	LDL Cholesterol (Direct)	
<b>Δ MICROALBUMIN/CREATININE, URINE [1964]</b> .....	<b>\$100</b>	<i>2 challenges per testing event</i>
Liquid samples for the following analytes:		
Creatinine (quantitative/semi-quantitative)		
Microalbumin (qualitative/semi-quantitative)		
<b>OXIMETRY, BLOOD [1111]</b> .....	<b>\$363</b>	<i>5 challenges per testing event</i>
Compatible with all Oximetry Instruments; liquid specimens for the following analytes:		
Carboxyhemoglobin	Oxyhemoglobin	
Methemoglobin	Hemoglobin, Total	
<b>p2PSA [1250]</b> .....	<b>\$217</b>	<i>3 challenges per testing event</i>
Liquid samples intended for use with the Beckman Coulter p2PSA assay only.		

**CHEMISTRY PROGRAMS****BOLD analytes are reported to CMS****Δ - denotes Point of Care Testing/Waived Programs****PREGNANCY, SERUM OR URINE [1915].....\$174** *5 challenges per testing event*Liquid samples for qualitative analysis of **Pregnancy, serum (hCG) and Pregnancy, urine (hCG)**. **CMS reported.**

This survey is compatible with all serum and urine pregnancy kits. Do not enroll in this module, if you are enrolled in Basic Chemistry (serum pregnancy) and are not required to perform proficiency testing for urine pregnancy.

**Δ PREGNANCY, URINE WAIVED [1130].....\$85** *2 challenges per testing event*

Liquid samples for qualitative analysis of Pregnancy (hCG) and is compatible with all waived urine pregnancy kits.

**SHBG & TESTOSTERONE [1229].....\$450** *2 challenges per testing event*

Liquid samples for testing the following analytes:

Sex Hormone Binding Globulin	Testosterone, Free
Testosterone, Bioavailable	Testosterone, Total

**TUMOR MARKERS [1988].....\$311** *2 challenges per testing event*

Liquid samples for the following analytes:

Beta-2-microglobulin	CA 19-9	Prostate-specific Antigen (PSA), Free
CA 125	CA 27-29	Prostatic Acid Phosphatase (PAP)
CA 15-3	CEA	Thyroglobulin

**THYROID ANTIBODIES [864].....\$261** *2 challenges per testing event*Liquid samples for Thyroglobulin antibody and Thyroid peroxidase antibody (TPO). **Program fulfilled through Medical Laboratory Evaluation (MLE).****Miscellaneous Chemistry****Δ CLINICAL MICROSCOPY [1969].....\$48** *1 challenge set per testing event*

Each shipment will vary. Each shipment will be a combination of photomicrographs and digital image for the following:

1 Fern Test	1 Sperm Qualitative
1 KOH Skin Prep	1 Stool Leukocytes
1 Nasal Eosinophils	1 Vaginal Wet Mount
1 Pinworm Prep	

**Δ FECAL LACTOFERRIN [1203].....\$177** *2 challenges per testing event*

Simulated stool samples for analysis of human lactoferrin.

**Δ OCCULT BLOOD, FECAL [1978].....\$138** *2 challenges per testing event*

Simulated stool samples for analysis of fecal occult blood.

**Δ OCCULT BLOOD, GASTRIC [1214].....\$186** *2 challenges per testing event*

Simulated gastric samples for analysis of:

Occult blood	pH
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**Δ PROVIDER-PERFORMED MICROSCOPY [1136].....\$108** *2 challenge sets per testing event***Intended for PPM Certified facilities. Included in the Provider-Performed Microscopy Program**

Each shipment will be a combination photomicrographs and digital images for the following:

- 1 set of Clinical Microscopy Photomicrographs, includes 7 images listed in this program above.
- 1 set of Urine Sediment Photomicrographs, includes 2 graded and 1 educational urine sediment images.

**Δ URINALYSIS [1913].....\$85** *1 challenge per testing event*  
**Includes photomicrograph for Urine Sediment Microscopy** *2 challenges/1 educational challenge per testing event*

Liquid samples for the following analytes:

Bilirubin	Leukocyte Esterase	Protein
Blood (Hgb)	Ketones	Specific Gravity
Creatinine	Nitrite	Urobilinogen
Glucose	pH	

Creatinine is for semi-quantitative dipstick methods only. Quantitative methods should enroll in Urine Microalbumin/Creatinine.

**Coagulation**

**Δ ACTIVATED CLOTTING TIME, 2 VIAL [2920].....\$270** *2 challenges per testing event*  
 Lyophilized samples are compatible with Actalyke, i-Stat, ITC, Medtronic and Quest Instruments

**COAGULATION, PLASMA [2921].....\$193** *5 challenges per testing event*  
 Lyophilized samples for the following analytes:

<b>Activated Partial Thromboplastin Time (APTT)</b>	INR	<b>Prothrombin Time (PT)</b>
<b>Fibrinogen</b>	INR calculation	

**Δ PT, COAGUCHEK XS/XS PLUS, BASIC [2995].....\$199** *2 challenges per testing event*  
 Lyophilized samples for Prothrombin Time and INR; this module is compatible with Roche CoaguChek XS, XS Plus and XS Pro instruments only. This module is NOT compatible with the HemoSense INRatio.

**PROTHROMBIN TIME, WHOLE BLOOD [328].....\$369** *5 challenges per testing event*  
 Lyophilized samples for whole blood **Prothrombin Time** and INR.  
 This module is ONLY for the Abbott i-Stat instruments. **Program fulfilled through Medical Laboratory Evaluation (MLE).**

**Hematology**

**Hematology Microscopy**

**BLOOD CELL IDENTIFICATION [2990].....\$56** *5 challenges per testing event*  
 The CMS portion of this program consists of 5 cells or features as digital slide using DigitalScope™ for CMS reporting.

Additionally, 2 DigitalScope™ whole slide images provided for manual differentials, platelet estimates and educational cell identifications that can be reported in this program. **Supplemental testing only; not for CMS reporting.**

**Hematology Instruments**

Hematology with automated differential programs are instrument specific. If changes occur during the year, please verify that you are still in the correct program. *The following analytes are included in automated differential modules; 3-Part or 5-Part Automated Differential, Erythrocyte Count, Hematocrit, Hemoglobin, Leukocyte Count, Platelet Count.*

**3-part differentials**

**HEMATOLOGY W/DIFF A [2930].....\$298** *5 challenges per testing event*  
 Module A is compatible with the following instruments:

- Abbott** Cell-Dyn 610, 1200, 1400, 1500, 1600, 1700, 1800, Emerald
- ABX** all three-part differential models
- Coulter** Ac•T series (excluding Ac•T-5 & 8), J series, MD series, Onyx, S Plus series, ST series, T series
- DANAM/Infolab** – all two-part differential models
- Drew** Evolution
- Mindray** BC-3200
- Nova** Celltrak

**HEMATOLOGY W/DIFF D [2933].....\$298** *5 challenges per testing event*  
 Module D is compatible with the following instruments:

- Sysmex** E series, F-800, K series, Pochi, KX 21/21N, XP series

**5-part differentials**

**HEMATOLOGY W/DIFF B [2931].....\$343** *5 challenges per testing event*  
 Module B is compatible with the following instruments:

- Abbott Cell-Dyn** 3000, 3200, 3500, 3700, 4000, Emerald 22, Sapphire, Ruby
- Danam** Excell 22

5-part differentials - continued

**HEMATOLOGY W/DIFF C [2932].....\$343** *5 challenges per testing event*

Module C is compatible with the following instruments:

- Coulter** DxH 600/800, Gen-S, HMX, LH500, LH750, MAXM, STKS (the VCS series)
- Mindray** BC-5800

**HEMATOLOGY W/DIFF E [2934].....\$343** *5 challenges per testing event*

Module E is compatible with the following instruments:

- Sysmex** NE series, SE series, SF series, XE series, XS series, XT series
- Mindray** BC-6800

**HEMATOLOGY W/DIFF G [2979].....\$343** *5 challenges per testing event*

Module G is compatible with the following instruments:

- ABX** Pentra 60 C+, 80, 120
- Coulter** Ac•T 5, Ac•T 8

Miscellaneous Hematology

**Δ EOSINOPHILS, URINE [2207].....\$76** *1 challenge per testing event*

Digital slide image for presence or absence of urine eosinophils for acute nephritis

**ERYTHROCYTE SEDIMENTATION RATE (ESR) [2960].....\$164** *2 challenges per testing event*

Specimens for manual and automated systems; samples are not compatible with the ESR Polymedco Sedimat 15 method.

**ERYTHROCYTE SEDIMENTATION RATE (ESR), RAPID [2986].....\$164** *2 challenges per testing event*

Specimens are for rapid ESR test systems only (Sedimat-15, Pro-Sed Auto S or equivalent)

**FLUID CELL COUNT/CRYSTALS [250].....\$231** *2 challenges per testing event*

Fluid for Hemocytometer cell count and photographs for identification of crystals.

RBC count, WBC count & Crystal Screening. **Program fulfilled through Medical Laboratory Evaluation (MLE).**

**Δ HEMOGLOBIN & HEMATOCRIT, WAIVED [2127].....\$150** *2 challenges per testing event*

Whole blood samples for waived methods only.

**HEMOGLOBIN & HEMATOCRIT, 5-VIAL [2195].....\$301** *5 challenges per testing event*

Whole blood samples for laboratories requiring additional samples for **hemoglobin & hematocrit** only.

**RETICULOCYTE COUNT, AUTOMATED [2968].....\$264** *2 challenges per testing event*

Specimens for automated instruments reporting (including **two digital images** for manual count); samples are compatible with the following instruments:

- Abbott** Cell-Dyn 3500, 3700, 4000
- Beckman Coulter** XL, STKS, MAXM, LH

**RETICULOCYTE COUNT, MANUAL [2255].....\$264** *2 challenges per testing event*

Specimens for manual count reporting (including **two digital images**).

**RETICULOCYTE COUNT, SYSMEX [2254].....\$264** *2 challenges per testing event*

Specimens for **Sysmex** instruments only (including **two digital images** for manual count).

**SICKLE CELL SCREEN [2133].....\$199** *2 challenges per testing event*

Whole Blood specimens are for detection of hemoglobin S by insolubility tests and by hemoglobin electrophoresis.

Immunohematology

**D (RH) TYPING ONLY [2115].....\$170** *5 Challenges per testing event*

This program is for performing **D (Rh) Typing** only by a slide or tube method.

Samples are red cell suspensions for typing. **CMS reported.**

**DIRECT ANTIGLOBULIN TEST [2987].....\$225** *2 challenges per testing event*

Suspension of red blood cells for direct anti-globulin testing.

**Immunohematology**

<b>IMMUNOHEMATOLOGY, BASIC [2935].....\$275</b>	<i>5 challenges per testing event</i>
Blood Group (ABO) and Rh (D) (5 paired cells/plasma)	
<b>IMMUNOHEMATOLOGY, COMPREHENSIVE [2936].....\$415</b>	<i>5 challenges per testing event</i>
Blood Group (ABO) and Rh (D) (5 paired cells/plasma)	
Compatibility Testing (Crossmatch) (1 donor cell)	
Unexpected Antibody Detection (5 plasma)	
Unexpected Antibody Identification (5 plasma)	
<b>IMMUNOHEMATOLOGY, COMPREHENSIVE PLUS [2212].....\$456</b>	<i>5 challenges per testing event</i>
Blood Group (ABO) and Rh (D) (5 paired cells/plasma)	
Compatibility Testing (Crossmatch) (1 donor cells)	
Unexpected Antibody Detection (5 plasma)	
Unexpected Antibody Identification (5 plasma)	
RBC Antigen Typing (1 cells)	

**Immunology**

<b>ANTINUCLEAR ANTIBODY [2937].....\$174</b>	<i>5 challenges per testing event</i>	
Liquid serum samples designed for screen methods as well as EIA and IFA methods:		
ANA Screen (for anti-DNA/anti-DNP, or anti-ENA)	Anti-SSA	
Anti-DNA (ds, ss)	Anti-SSB	
Anti-RNP	IFA Pattern	
Anti-Sm		
<b>ANTISTREPTOLYSIN O [2938].....\$158</b>	<i>5 challenges per testing event</i>	
Liquid serum samples for qualitative evaluation. <b>CMS reported.</b>		
<b>C-REACTIVE PROTEIN [2939].....\$106</b>	<i>2 challenges per testing event</i>	
Liquid serum samples for qualitative and quantitative evaluation. Targeted for non-high sensitivity methods.		
<b>DIAGNOSTIC ALLERGY [773].....\$369</b>		
Liquid sample, a set of challenges for the following: Allergen specific IgE – 14 challenges; Total IgE – 5 challenges		
<b>Program fulfilled through Medical Laboratory Evaluation (MLE).</b>		
<b>DIAGNOSTIC IMMUNOLOGY [2231].....\$457</b>	<i>5 challenges per testing event</i>	
Liquid sample, a set of samples for each of the following analytes:		
<b>Antistreptolysin O</b>	<b>Infectious Mononucleosis</b>	
CRP (CRP, only 2 challenges per testing event)	<b>Rheumatoid Factor</b>	
<b>IMMUNOPROTEINS [2941].....\$236</b>	<i>5 challenges per testing event</i>	
Liquid serum samples for quantitative evaluation of the following analytes:		
<b>C3</b>	<b>IgA</b>	<b>IgG</b>
<b>C4</b>	<b>IgE</b>	<b>IgM</b>
<b>Δ MONONUCLEOSIS, INFECTIOUS, WAIVED [2169].....\$100</b>	<i>2 challenges per testing event</i>	
Liquid serum samples for qualitative IgG, IgM or Ig-nonspecific evaluation using waived methods only.		
<b>MONONUCLEOSIS, INFECTIOUS, 5-VIAL [2942].....\$170</b>	<i>5 challenges per testing event</i>	
Liquid serum samples for qualitative IgG, IgM or Ig-nonspecific evaluation. <b>CMS reported.</b>		



**RHEUMATOID FACTOR [2945].....\$165** *5 challenges per testing event*  
 Liquid serum samples for qualitative evaluation. **CMS reported.**

**SPECIFIC ALLERGEN TESTING [770].....\$369** *14 challenges per testing event*  
 Liquid sample, a set of samples for each allergen specific IgE. Does not include Total IgE. **Program fulfilled through Medical Laboratory Evaluation (MLE).**

**Serology**

**COVID-19 ANTIBODY [2997].....\$384** *3 challenges per testing event,  
 1st & 3rd events only*  
 Liquid specimens for SARS-CoV-2 antibody.

**Δ HELICOBACTER PYLORI ANTIBODY [2940].....\$168** *2 challenges per testing event*  
 Liquid serum samples for qualitative evaluation.

**HEPATITIS MARKERS [2962].....\$275** *5 challenges per testing event*  
 Liquid serum samples for qualitative evaluation of the following analytes:

<b>Anti-HBc (IgG+IgM)</b>	Anti-Hepatitis A
<b>Anti-HBc (IgM)</b>	<b>HBeAg</b>
Anti-HBs	<b>HBsAg</b>
Anti-HCV	

**HIV MARKERS [2948].....\$258** *5 challenges per testing event*  
 Liquid serum samples for qualitative evaluation of the following analytes:

<b>Anti-HIV1</b>	<b>Anti-HIV1 Confirmation</b>	HIV1 p24 Antigen
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**Δ HIV MARKERS, RAPID, WAIVED [2128].....\$187** *2 challenges per testing event*  
 For rapid antigen/antibody testing or oral fluid samples using waived methods

Anti-HIV1	HIV1 p24 Antigen
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**HIV ANTIBODIES, ORAL FLUID [2944].....\$398** *5 challenges per testing event*  
 Simulated oral fluid samples for **anti-HIV1 screening and confirmation by Western Blot.**

**LYME DISEASE [2943] .....\$217** *2 challenges per testing event*  
 Liquid serum samples for qualitative evaluation.

**MYCOPLASMA ANTIBODY [2173] .....\$203** *2 challenges per testing event*  
 Liquid serum samples for qualitative evaluation.

**RUBELLA [2946].....\$180** *5 challenges per testing event*  
 Liquid serum samples for qualitative IgG, & Ig-nonspecific evaluation. **CMS reported.**

**SYPHILIS SEROLOGY [2947].....\$210** *5 challenges per testing event*  
 Liquid serum samples for **qualitative/semi-quantitative** evaluation by **EIA, FTA, MHA, RPR, TPPA and VDRL.**

**TORCH [2135].....\$281** *3 challenges per testing event,  
 1st & 3rd events only*

**Must enroll in Rubella for CLIA reporting;** supplemental for Rubella IgM only; does not meet CLIA Rubella requirements. Liquid specimens for Serology Testing for:

Cytomegalovirus	Rubella IgM
HSV1; IgG, IgM	Toxoplasma
HSV2; IgG, IgM	

**Microbiology – Bacterial culture programs ships one week prior to Non Chemistry shipping dates.**

**Proficiency Testing Requirements**

Unlike other specialties under CLIA, Microbiology does not have specific analytes. Instead, laboratories are responsible for selecting Proficiency Testing that covers all aspects of testing offered by their laboratory. The general requirement that Proficiency Testing be comprised of 3 events per year with 5 samples per event applies (with the exception of Acid Fast Smears). The *all aspects of testing offered* requirement means that the laboratory must cover all subspecialties, all basic techniques employed and all organisms tested by the laboratory.

In order to facilitate selection of methods to cover all aspects of testing performed in your laboratory, the Microbiology Section of the catalog is organized by Sub Specialty, then by laboratory technique. That is, you will find under Bacteriology programs covering Culture and Identification, Antimicrobial Sensitivity, Gram Stain, Direct Antigen and so on. In order to ensure that you meet the 3 by 5 sample requirement, we typically start the listing with a base program or series of base program options comprising 5 samples and offering one or more testing techniques. You should select one of those base programs that most closely reflect the level of service offered by your laboratory. Once you have established base programs, you should select additional supplemental programs to cover all aspects of testing offered by your laboratory.

Unless you are performing waived testing only, typically a supplemental program alone will not be sufficient to meet the CLIA 3 X 5 requirement. If you perform only a limited test menu, please be careful in selecting programs that your selection meets this requirement for each basic laboratory technique and subspecialty. A variety of 5 vial programs are offered to make meeting this requirement easier.

As always, it is ultimately the responsibility of the laboratory to ensure that they are ordering an adequate selection of Proficiency Testing to meet CLIA requirements. Be aware that Deemed Accrediting Agencies will have their own additional requirements or specific interpretations of how to meet the proficiency standard. When in doubt you should discuss this with your laboratory's Deemed Accrediting Agency.

### **BACTERIOLOGY – Culture and Identification**

**BACTERIOLOGY [2950].....\$338** 5 challenges per testing event

Pure and mixed cultures will be included for identification. Sources will vary.

*One of the five specimens per testing event will be for Antimicrobial Susceptibility. Additionally, one culture per event will be a mixed culture and require that all organism found be reported. The culture quantities reflect the number of sources for the year.*

2 CSF Cultures	3 Stool Cultures
1 Blood Culture	3 Throat Cultures
1 Genital Culture	3 Urine Cultures
2 Wound or Ear Culture (Aerobic & Anaerobic)	3-Antimicrobial susceptibility

**BACTERIOLOGY, COMPLETE [2139].....\$394** 5 challenges per testing event

Pure and mixed cultures will be included for identification. Sources will vary. Additional procedures include actual method specific specimens to assure compliance with regulatory requirements.

*One of the five specimens per testing event will be for regulated Antimicrobial Susceptibility. Additionally, one culture per event will be a mixed culture and require that all organism found be reported. The culture quantities reflect the number of sources for the year.*

1 or 2 CSF Cultures	3 Throat Cultures	15 Gram Stains
1 or 2 Blood Culture	3 Urine Cultures	15 Organism Morphology
1 Genital Culture	3 Stool Cultures	3 Strep A Antigen
2 Wound or Ear Culture (Aerobic & Anaerobic)	3-Antimicrobial susceptibility	3 Antimicrobial sensitivity, supplemental non-CMS

**BACTERIOLOGY, COMPLETE, with Urine Colony Count [2811].....\$503**

**BLOOD CULTURE, 2 VIAL supplemental [2812].....\$150** 2 challenges per testing event

Lyophilized pellets with dilution buffer to simulate liquid blood samples. **Must be enrolled in a 5 challenge Bacteriology Culture and Identification program.**

**CAMPYLOBACTER, 2-VIAL supplemental [2218].....\$105** 2 challenges per testing event

Pure and mixed cultures will be included for identification, or antigen screen. **Must be enrolled in a 5-vial Bacteriology Culture and Identification program, or if reporting as extent 2 must be enrolled in a 5-vial Bacteriology Direct Antigen program.**

**GENITAL CULTURE [2952].....\$270** 5 challenges per testing event

Pure cultures for identification of genital pathogens, Strep Group B and/or Neisseria gonorrhoea. **CMS reported.**

**THROAT CULTURE [2957].....\$327** 5 challenges per testing event

Pure and mixed cultures will be included for identification, antigen screen and/or Gram stain. **CMS reported.**

**THROAT/URINE CULTURE [2958].....\$327** *5 challenges per testing event*

Pure and mixed cultures will be included for identification. Per Event, samples are as follows:

- 3-Urine Culture identifications**                      **1-Antimicrobial susceptibility**  
**2-Throat Culture identifications**

**THROAT/URINE CULTURE with urine colony count form only [2813].....\$348**

**URINE CULTURE [2959].....\$298** *5 challenges per testing event*

Pure and mixed cultures will be included for identification. Per Event, samples are as follows:

- 5-Culture identifications**  
**1-Antimicrobial susceptibility**

**URINE CULTURE with urine colony count form only [2814].....\$320**

**URINE COLONY COUNT [2106].....\$216** *2 challenges per testing event*

Pure and mixed cultures in a lyophilized pellet for bacterial colony count and ID.

**Supplemental testing only;** culture samples for supplemental testing only for ID and must be ordered in addition to another 5-vial CLIA acceptable bacteriology culture and ID program.

### **BACTERIOLOGY – Antimicrobial Sensitivity**

**Antimicrobial Applicability**                      As indicated in CMS guidelines, participants enrolled in a Microbiology program that perform antimicrobial testing will be flagged for inappropriate selection of antimicrobial agents per CLSI Guidelines (formerly NCCLS) M02-12, M07-A10 and M100 S25. Inappropriate selection of antimicrobials as indicated by the CLSI guidelines will be scored as misses.

**BACTERIOLOGY [2950].....\$338** *5 challenges per testing event*

See Culture and ID section above for program description.

**BACTERIOLOGY, COMPLETE [2139].....\$394** *5 challenges per testing event*

See Culture and ID section above for program description. This program allows the reporting of supplemental non-CLSI antimicrobial agents for evaluation that is not included in the CMS score for susceptibility.

**THROAT/URINE CULTURE [2958].....\$327** *5 challenges per testing event*

See Culture and ID section above for program description.

**URINE CULTURE [2959].....\$298** *5 challenges per testing event*

See Culture and ID section above for program description.

### **BACTERIOLOGY – Gram Stain and Morphology**

**GRAM STAIN [2954].....\$191** *5 challenges per testing event*

Purified bacterial smears for Gram stain. **CMS reported.** Includes two educational DigitalScope™ slide images available online only.

**BACTERIOLOGY, COMPLETE [2139].....\$394** *5 challenges per testing event*

See Culture and ID section above for program description. This program allows the reporting of gram stain from the five organisms isolated in the Bacteriology samples for CMS grading.

### **BACTERIOLOGY – Direct Antigen**

**C. DIFFICILE TOXIN ANTIGEN DETECTION [2972].....\$347** *5 challenges per testing event*

Lyophilized vials for detection of C. difficile toxin antigen. **CMS reported.**

**LEGIONELLA ANTIGEN DETECTION [686].....\$261** *5 challenges per testing event*

Lyophilized vials for detection of Legionella antigen. For use with Binax NOW Legionella Urinary Antigen Detection kit only. **Program fulfilled through Medical Laboratory Evaluation (MLE). CMS reported.**

**STREPTOCOCCUS PNEUMONIAE ANTIGEN DETECTION [687].....\$267** *5 challenges per testing event*

Lyophilized vials for detection of Strep pneumoniae antigen. For use with Binax NOW *Streptococcus pneumoniae* Urinary Antigen Detection kit only. **Program fulfilled through Medical Laboratory Evaluation (MLE). CMS reported.**

**CHLAMYDIA/GC/STREP GROUP B ANTIGEN SCREEN [2951].....\$467** *5 challenges per testing event*

Swab specimens for Chlamydia trachomatis, Neisseria gonorrhoea and Streptococcus sp., Group B antigen screens; these specimens cannot be cultured. **CMS reported.**

<b>SHIGA TOXIN [2174]</b> .....\$252	<i>2 challenges per testing event</i>
Specimens for Shiga Toxin 1 and 2.	
<b>For supplemental testing only, must be ordered in addition to another 5-vial CLIA acceptable other Bacteriology antigen programs.</b>	
<b>Δ STREP GROUP A ANTIGEN, WAIVED [2132]</b> .....\$112	<i>2 challenges per testing event</i>
Pre-inoculated swabs for antigen screening using waived methods only.	
<b>STREP GROUP A ANTIGEN, 5-VIAL [2956]</b> .....\$208	<i>5 challenges per testing event</i>
Pre-inoculated swabs for antigen screening only.	
Any method requiring live bacteria, such as cultures, stains or DNA probe methods should enroll in the Throat Culture or other appropriate Bacteriology Culture and ID module. <b>CMS reported.</b>	
<b>UREASE, RAPID CAMPY LIKE ORGANISM (CLO) [2316]</b> .....\$167	<i>2 challenges per testing event</i>
Simulated gastric samples for use with CLOtest, PyloriTek or similar methods.	
<b>BACTERIOLOGY – CLIA Specified Serology</b>	
See SEROLOGY Section	
<b>MICROBIOLOGY – Molecular</b>	
<b>CHLAMYDIA/GC/STREP GROUP B ANTIGEN SCREEN [2951]</b> .....\$467	<i>5 challenges per testing event</i>
See BACTERIOLOGY – Direct Antigen section above for program description.	
<b>MRSA [2172]</b> .....\$168	<i>2 challenges per testing event</i>
Culture swab samples for the detection Methicillin Resistant S. aureus using ChromAgar and molecular probe methods.	
<b>VAGINOSIS [2980]</b> .....\$405	<i>5 challenges per testing event</i>
Lyophilized cultures compatible with all molecular probe and antigen detection methods for the following vaginal pathogens:	
<b>Candida albicans</b>	
<b>Trichomonas vaginalis</b>	
<b>Gardnerella vaginalis</b>	
<b>MYCOBACTERIOLOGY</b>	
<b>ACID-FAST SMEARS [2949]</b> .....\$214	<i>5 challenges per testing event, 1st &amp; 3rd events only</i>
Prepared, fixed slides for acid-fast staining	
<b>MYCOLOGY – Microscope Identification</b>	
<b>IDENTIFICATION</b>	
<b>KOH PREPARATION [2162]</b> .....\$197	<i>2 challenges per testing event</i>
Glass slides to represent a KOH examination.	
<b>MYCOLOGY – Culture</b>	
<b>DERMATOPHYTE CULTURE [678]</b> .....\$282	<i>5 challenges per testing event</i>
Swabs for culture and identification. <b>Program fulfilled through Medical Laboratory Evaluation (MLE). CMS reported.</b>	
<b>MYCOLOGY – Molecular</b>	
<b>VAGINOSIS [2980]</b> .....\$405	<i>5 challenges per testing event</i>
See Bacteriology - Molecular section above for program description.	
<b>PARASITOLOGY – Identification (Microscopy)</b>	
<b>PARASITOLOGY [2955]</b> .....\$304	<i>5 challenges per testing event</i>
Specimens include fecal specimens (formalinized and PVA), peripheral blood smears and DigitalScope™ slide images. <b>CMS reported.</b>	
<b>PARASITOLOGY – Direct Antigen/Molecular</b>	
<b>CRYPTOSPORIDIUM/GIARDIA IMMUNOASSAY [2967]</b> .....\$258	<i>5 challenges per testing event</i>
Formalinized fecal specimens for analysis of Cryptosporidium and Giardia. <b>CMS reported.</b>	

**VIROLOGY – Direct Antigen**

<b>COVID-19 Antigen, Rapid Test [2998]</b> .....	<b>\$292</b>	<i>3 challenges per testing event, 1st &amp; 3rd events only</i>
Liquid specimens for detection of SARS-CoV-2 by rapid antigen methods.		
<b>COVID-19 DETECTION [2996]</b> .....	<b>\$315</b>	<i>3 challenges per testing event, 1st &amp; 3rd events only</i>
Liquid specimens for detection of SARS-CoV-2 by molecular methods.		
<b>HEPATITIS MARKERS [2962]</b> .....	<b>\$275</b>	<i>5 challenges per testing event</i>
See Serology section above for program description.		
<b>HIV MARKERS [2948]</b> .....	<b>\$258</b>	<i>5 challenges per testing event</i>
See Serology section above for program description.		
<b>Δ HIV MARKERS, RAPID, WAIVED [2128]</b> .....	<b>\$187</b>	<i>2 challenges per testing event</i>
See Serology section above for program description.		
<b>ROTAVIRUS, 2-VIAL ADD ON [2217]</b> .....	<b>\$158</b>	<i>2 challenges per testing event</i>
Liquid specimens for the detection of Rotavirus.		
<b>Supplemental testing only;</b> must be ordered in addition to another CMS acceptable 5-vial Viral Antigen program.		
<b>ROTAVIRUS, 5-VIAL [2216]</b> .....	<b>\$320</b>	<i>5 challenges per testing event</i>
Liquid specimens for the detection of Rotavirus. <b>CMS reported.</b>		
<b>Δ VIRAL ANTIGEN SCREEN, WAIVED METHODS [2215]</b> .....	<b>\$191</b>	<i>2 challenges per testing event, 1st &amp; 3rd events only</i>
Liquid specimens for detection of the following analytes using waived methods only:		
Adenovirus		
Influenza Type A & Influenza Type B		
Respiratory syncytial virus (RSV) antigen		
<b>VIRAL ANTIGEN SCREEN, 5-VIAL [2973]</b> .....	<b>\$394</b>	<i>5 challenges per testing event</i>
Lyophilized vials for detection of the following analytes:		
<b>Adenovirus</b>		
<b>Influenza Type A &amp; Influenza Type B</b>		
<b>Respiratory syncytial virus (RSV) antigen</b>		

**ANDROLOGY AND EMBRYOLOGY AND FETAL PROGRAMS**

<b>ANTISPERM ANTIBODIES [3923]</b> .....	<b>\$270</b>	<i>2 challenges per testing event</i>
Liquid serum samples for qualitative IgG evaluation.		
<b>EMBRYO GRADING [3997]</b> .....	<b>\$302</b>	<i>2 challenges per testing event</i>
Videos for Embryo grading; multiple answers for three different days		
<b>FETAL FIBRONECTIN (FFN) [3965]</b> .....	<b>\$404</b>	<i>2 challenges per testing event</i>
Liquid simulated cervicovaginal specimens.		
<b>FETAL MEMBRANE RUPTURE TEST [3116]</b> .....	<b>\$366</b>	<i>2 challenges per testing event</i>
Samples for detection of placental alpha-1-microglobulin		
<b>IVF EMBRYO CULTURE MEDIA [3124]</b> .....	<b>\$468</b>	<i>2 challenges per testing event</i>
Two samples of culture media and one vial of human serum albumin per shipment to challenge the laboratories ability to test media suitability for in-vitro embryo cultures.		
<b>PREIMPLANTATION GENETIC TESTING - ANEUPLOIDY [3251]</b> .....	<b>\$907</b>	<i>3 challenges per testing event</i>
Samples consists of extracted DNA diluted to the 5 – 6 cell level. The samples will be tested and reported for Sex and Euploid or Aneuploid status and will be graded. Can report chromosome additions or deletions for educational purpose and will not be graded.		
<b>SPERM COUNT, QUALITATIVE/POST VASECTOMY [3924]</b> .....	<b>\$250</b>	<i>2 challenges per testing event</i>
Liquid samples of stabilized sperm for qualitative post-vasectomy analysis. <b>Required for CAP accredited laboratories.</b>		

**ANDROLOGY AND EMBRYOLOGY AND FETAL PROGRAMS - continued**

<b>SPERM COUNT, QUANT. &amp; QUAL. [3925]</b> ..... <b>\$292</b>	<i>2 challenges per testing event</i>
Liquid samples of stabilized sperm for quantitative and qualitative (post-vasectomy) analysis and digital videos for Hemocytometer and Makler methods.	
<b>SPERM MORPHOLOGY [3926]</b> ..... <b>\$292</b>	<i>2 challenges per testing event</i>
Unstained semen smears on glass slides and whole slide DigitalScope™ images for sperm morphology analysis. Samples are not compatible with Testsimplets.	
<b>SPERM MOTILITY [3998]</b> ..... <b>\$304</b>	<i>2 challenges per testing event</i>
Digital video for sperm motility	
<b>SPERM VIABILITY [3927]</b> ..... <b>\$292</b>	<i>2 challenges per testing event</i>
This program is Eosin-Nigrosin stained slides featuring DigitalScope™ images.	

**SPECIALTY TESTING**

**These programs are designed to meet the laboratory's External Quality Assessment needs in other than the traditional proficiency testing. These are not reported to CMS.**

<b>GLUCOSE, WB, BASIC - EQAS (MULTI-SITE) [1917]</b> ..... <b>\$181</b>	<i>2 challenges per testing event</i>
This program is WB Glucose testing on multiple glucometers at a facility or institutions. This program allows the participant to challenge up to 20 operators and/or glucometers for testing accuracy. This is an externally graded program, but for internal use only. <b>Samples ship with Chemistry events.</b>	