

**PUERTO RICO DEPARTMENT OF HEALTH  
LABORATORIES OF PUBLIC HEALTH  
Proficiency Testing Service Program**



**CLINICAL LABORATORIES  
PROFICIENCY TESTING PROGRAM  
CATALOG 2020**

## CHEMISTRY Challenges – 5 per shipment

Ship Dates (2020)	February – 3	Jun –1	October – 5
-------------------	--------------	--------	-------------

<b>Survey A – Routine Chemistry (10.0ml lyophilized serum/vial)</b>	<b>\$ 180.00</b>
---	------------------

**Analytes:**

- 001 \*Alanine Aminotransferase ALT/SGPT
- 002 \*Albumin
- 003 \*Alkaline Phosphatase
- 004 \*Amylase
- 005 \*AspartateAminotransferase AST/SGOT
- 006 \*Bilirubin, Total
- 010 \*Calcium, Total
- 011 \*Chloride
- 012 \*Cholesterol, Total
- 013 \*Cholesterol, high density lipoprotein (HDL)
- 014 \*Creatine Kinase (CK)
- 016 \*Creatinine
- 135 Gamma glutamyl transferase (GGT)
- 017 \*Glucose
- 018 \*Iron Total
- 019 \*Lactase dehydrogenase (LDH)
- 136 Lactic Acid
- 137 Lipase
- 021 \*Magnesium
- 138 Phosphorus
- 022 \*Potassium
- 023 \*Sodium
- 024 \*Total Protein
- 025 \*Triglycerides
- 026 \*Urea Nitrogen
- 027 \*Uric Acid
- 169 CO<sub>2</sub>
- 170 Direct Bilirubin

**\*CMS regulated and approved**

<b>Survey C – Routine – Blood Gases (2.0ml ampules of aqueous material/vial)</b>	<b>\$100.00</b>
--	-----------------

**Analytes:**

- 007 \*Blood Gases - pCO<sub>2</sub>
- 008 \*Blood Gases - pH
- 009 \*Blood Gases - pO<sub>2</sub>

<b>Survey D – Endocrinology (1.5ml liquid serum/vial)</b>	<b>\$100.00</b>
---	-----------------

**Analytes:**

- 151 \*Human Chor. Gonado. (hCG) only – Quali.
- 152 \*Human Chor. Gonado. (hCG) only – Quanti.

<b>Survey E– Part A–Endocrinology (5.0ml liquid serum/vial)</b>	<b>\$400.00</b>
---	-----------------

**Analytes:**

- 028 \*Cortisol
- 139 Estradiol
- 141 Folate
- 029 Follicle Stimulating Hormone (FSH)
- 030 \*Free Thyroxine
- 031 \*Human Chorionic Gonado. (hCG) – Qualit.
- 032 \*Human Chorionic Gonado. (hCG) – Quanti.
- 142 Human Luteinizing Hormone (hLH)
- 033 Insulin
- 034 Progesterone
- 035 Prolactin
- 173 \*T3 Uptake
- 037 Testosterone
- 038 \*Triiodothyronine
- 039 \*Thyroid stimulating hormone (TSH)
- 040 \*Thyroxine (T4)

<b>Survey E- Special Test</b>	<b>\$400.00(billed together with Endo &amp; Special tests) **</b>
-----------------------------------	---

**Analytes:**

- 068 CEA (Carcinoembryonic Antigen)
- 069 PSA (Prostate Specific Antigen)
- 070 PAP (Prostatic Acid Phosphatase)
- 071 Vitamin B<sup>12</sup>

<b>Survey F – Vitamin D</b>	<b>\$ 400.00</b>
---------------------------------	------------------

- 178 Vitamin D

## CHEMISTRY Challenges – 5 per shipment

**Ship Dates: (2020)      February – 3      Jun – 1      October – 5**

Survey E- Part C- Toxicology	<b>\$400.00(billed together with Endo &amp; Special tests)</b>
------------------------------	--

**Analytes:**

- 041 Amikacin
- 042 \*Carbamazepine
- 043 \*Digoxin
- 045 Ferritin
- 046 \*Gentamicin
- 048 \*Lithium
- 049 \*Phenobarbital
- 050 \*Phenytoin
- 054 \*Theophylline
- 056 \*Valproic Acid
- 127 Vancomycin

Survey F – Glycohemoglobin (1.0ml lyophilized serum/vial)	<b>\$200.00</b>
---	-----------------

**Analyte:**

- 146 Glycohemoglobin

Survey G – Occult Blood (Simulated fecal/vial)	<b>\$140.00</b>
--	-----------------

**Analyte:**

- 154 Fecal Occult Blood

**\*CMS regulated and CMS approved**

Survey I – Urinalysis (5.0ml liquid urine/vial)	<b>\$250.00</b>
---	-----------------

**Analytes:**

- 057 Bilirubin
- 058 Glucose
- 059 Hemoglobin or Blood
- 060 Ketones
- 061 Nitrate
- 062 pH
- 063 Pregnancy Test (\*)
- 064 Protein - Qualitative
- 065 Protein – Quantitative (24 hour)
- 066 Urobilinogen
- 067 Specific Gravity
- 150 Urine sediment (transparencies)
- 184 Leucocytes

Survey J – Whole Blood Glucose (2.0ml Whole blood/vial)	<b>\$150.00</b>
---	-----------------

<b>Ship Dates (2020)</b>	<b>April 20</b>	<b>Jul 6</b>	<b>Nov 9</b>
--------------------------	-----------------	--------------	--------------

**Analyte:**

- 157 \*Whole Blood Glucose (For non-waived whole blood glucose meters)

# HEMATOLOGY

## Challenges – 5 per shipment

<b>Ship Dates (2020)</b>	<b>April – 20</b>	<b>Jul – 6</b>	<b>Nov – 9</b>
--------------------------	-------------------	----------------	----------------

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 5px;"><b>Survey A- Hematology-General (Photomicrographs)</b></td> <td style="width: 20%; padding: 5px; text-align: center;"><b>\$100.00</b></td> </tr> </table> <p style="margin-top: 10px;"><b>Analyte:</b></p> <p>072 *Cell identification</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 5px;"><b>Survey D – Hematology-General (3.0ml Whole blood/vial)</b></td> <td style="width: 20%; padding: 5px; text-align: center;"><b>\$260.00</b></td> </tr> </table> <p style="margin-top: 10px;"><b>Analytes:</b></p> <p>172 *Differential WBC for 5 param. Instrument          174 *Differential WBC for 6 param. Instrument          186 *Differential WBC for 3 param. Instrument          075 *Erythrocyte Count (RBC)          076 *Hematocrit (Hct)          077 *Hemoglobin (HB)          078 *Leucocyte Count (WBC)          079 *Platelet Count</p> <p style="margin-top: 20px;"><b>*CMS regulated and CMS approved</b></p>	<b>Survey A- Hematology-General (Photomicrographs)</b>	<b>\$100.00</b>	<b>Survey D – Hematology-General (3.0ml Whole blood/vial)</b>	<b>\$260.00</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 5px;"><b>Survey E – Hematology – Reticulocyte Count (1.0ml Whole blood/vial)</b></td> <td style="width: 20%; padding: 5px; text-align: center;"><b>\$210.00</b></td> </tr> </table> <p style="margin-top: 10px;"><b>Analyte:</b></p> <p>149 Reticulocyte Count</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 5px;"><b>Survey F – Hematology –Eryth. Sedimentation Rate (ESR) (5.0ml whole blood/vial)</b></td> <td style="width: 20%; padding: 5px; text-align: center;"><b>\$250.00</b></td> </tr> </table> <p style="margin-top: 10px;"><b>Analyte:</b></p> <p>153 Erythrocyte Sedimentation Rate (ESR)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 5px;"><b>Survey G – Coagulation (1.0ml lyophilized plasma/vial)</b></td> <td style="width: 20%; padding: 5px; text-align: center;"><b>\$175.00</b></td> </tr> </table> <p style="margin-top: 10px;"><b>Analytes:</b></p> <p>080 *Fibrinogen          081 *Partial thromboplastin time (PTT)          082 *Prothrombin time (PT)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 5px;"><b>Survey H – Body Fluid Cell Count (2.0ml Stabilized human red and white blood cells in a preservative medium)</b></td> <td style="width: 20%; padding: 5px; text-align: center;"><b>\$360.00</b></td> </tr> </table> <p style="margin-top: 10px;"><b>Analytes:</b></p> <p>159 BF Red Cell Count          160 BF White Cell Count          161 BF Differential Cell Count</p> <p style="margin-top: 10px;"><b>*CMS regulated and CMS approved</b></p>	<b>Survey E – Hematology – Reticulocyte Count (1.0ml Whole blood/vial)</b>	<b>\$210.00</b>	<b>Survey F – Hematology –Eryth. Sedimentation Rate (ESR) (5.0ml whole blood/vial)</b>	<b>\$250.00</b>	<b>Survey G – Coagulation (1.0ml lyophilized plasma/vial)</b>	<b>\$175.00</b>	<b>Survey H – Body Fluid Cell Count (2.0ml Stabilized human red and white blood cells in a preservative medium)</b>	<b>\$360.00</b>
<b>Survey A- Hematology-General (Photomicrographs)</b>	<b>\$100.00</b>												
<b>Survey D – Hematology-General (3.0ml Whole blood/vial)</b>	<b>\$260.00</b>												
<b>Survey E – Hematology – Reticulocyte Count (1.0ml Whole blood/vial)</b>	<b>\$210.00</b>												
<b>Survey F – Hematology –Eryth. Sedimentation Rate (ESR) (5.0ml whole blood/vial)</b>	<b>\$250.00</b>												
<b>Survey G – Coagulation (1.0ml lyophilized plasma/vial)</b>	<b>\$175.00</b>												
<b>Survey H – Body Fluid Cell Count (2.0ml Stabilized human red and white blood cells in a preservative medium)</b>	<b>\$360.00</b>												

# IMMUNOHEMATOLOGY

## Challenges – 5 per shipment

<b>Ship Dates (2020)</b>	<b>March – 9</b>	<b>Jul – 6</b>	<b>Nov – 9</b>
--------------------------	------------------	----------------	----------------

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"><b>Survey A- Group and Type (1.5ml Whole blood/vial)</b></td> <td style="padding: 5px; text-align: right;"><b>\$220.00</b></td> </tr> </table> <p><b>Analytes:</b></p> <p>083 *ABO group 126 *Rh (D) type</p>	<b>Survey A- Group and Type (1.5ml Whole blood/vial)</b>	<b>\$220.00</b>	
<b>Survey A- Group and Type (1.5ml Whole blood/vial)</b>	<b>\$220.00</b>		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"><b>Survey B – Indirect Coombs (1.5ml liquid serum/vial)</b></td> <td style="padding: 5px; text-align: right;"><b>\$220.00</b></td> </tr> </table> <p><b>Analyte:</b></p> <p>084 *Unexpected antibody detection (Ind. Coombs)</p>	<b>Survey B – Indirect Coombs (1.5ml liquid serum/vial)</b>	<b>\$220.00</b>	
<b>Survey B – Indirect Coombs (1.5ml liquid serum/vial)</b>	<b>\$220.00</b>		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"><b>Survey C – Direct Coombs (1.5 ml whole blood vial)</b></td> <td style="padding: 5px; text-align: right;"><b>\$150.00</b></td> </tr> </table> <p><b>Analyte:</b></p> <p>179 Direct Antiglobulin (Direct COOMBS) (Qualitative test)</p>	<b>Survey C – Direct Coombs (1.5 ml whole blood vial)</b>	<b>\$150.00</b>	
<b>Survey C – Direct Coombs (1.5 ml whole blood vial)</b>	<b>\$150.00</b>		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"><b>Survey D – Comp. Testing and Antibody Id (3.0ml patient liquid serum/vial) (1.5ml patient red cells/vial) (1.5ml donor red cells/vial)</b></td> <td style="padding: 5px; text-align: right;"><b>\$240.00</b></td> </tr> </table> <p><b>Analytes:</b></p> <p>085 *Compatibility testing 086 *Antibody identification</p> <p><b>*CMS regulated and CMS approved</b></p>	<b>Survey D – Comp. Testing and Antibody Id (3.0ml patient liquid serum/vial) (1.5ml patient red cells/vial) (1.5ml donor red cells/vial)</b>	<b>\$240.00</b>	
<b>Survey D – Comp. Testing and Antibody Id (3.0ml patient liquid serum/vial) (1.5ml patient red cells/vial) (1.5ml donor red cells/vial)</b>	<b>\$240.00</b>		

# IMMUNOLOGY – GENERAL

## Challenges – 5 per shipment

Ship Dates (2020)	May – 11	September – 8	December – 7
-------------------	----------	---------------	--------------

<b>Survey A- Special Imm. I</b> (1.0ml liquid serum/vial)	<b>\$220.00</b>
--	-----------------

**Analytes:**

- 094 \*Complement C3
- 095 \*Complement C4
- 099 \*IgA
- 100 \*IgG
- 102 \*IgM

<b>Survey B – Special Imm. II</b> (5.0ml liquid serum/vial)	<b>\$365.00</b>
--	-----------------

**Analytes:**

- 088 \*Alpha - fetoprotein
- 101 \*IgE

<b>Survey C – ANA Test</b> (1.5ml liquid serum/vial)	<b>\$150.00</b>
---	-----------------

**Analytes:**

- 089 \*Antinuclear antibody (ANA) - Qualitative
- 090 \*Antinuclear antibody (ANA) - Quantitative
- 124 Antinuclear antibody (ANA) – Pattern id.

<b>Survey D – RA-MONO-ASOT-CRP Test</b> (1.5ml liquid serum/vial)	<b>\$225.00</b>
--	-----------------

**Analytes:**

- 091 \*Antistreptolysin O (ASOT) - Qualitative
- 092 Antistreptolysin O (ASOT) – Semi Quantitative
- 144 C-Reactive Protein (CPR) - Qualitative
- 145 C-Reactive Protein (CPR) - Quantitative
- 103 \*Infectious Mononucleosis (Mono) – Qualit.
- 104 \*Infectious Mononucleosis (Mono) – Quant.
- 105 \*Rheumatoid factor (RA) - Qualitative
- 106 Rheumatoid factor (RA) - Quantitative

**\*CMS regulated and CMS approved**

<b>Survey E – Rubella Test</b> (1.5ml liquid serum/vial)	<b>\$100.00</b>
---	-----------------

**Analytes:**

- 107 \*Rubella - Qualitative
- 108 Rubella – Quantitative

<b>Survey F – Syphilis Serology</b> (1.0ml liquid serum/vial)	<b>\$125.00</b>
--	-----------------

**Analytes:**

- 109 \*Qualitative Syphilis Serology
- 110 \*Quantitative Syphilis Serology

<b>Survey G – H. Pylori</b> (1.5ml liquid serum/vial)	<b>\$225.00</b>
--	-----------------

**Analyte:**

Helicobacter pylori antibody

<b>Survey H – HIV and Hepatitis</b> (2.0ml liquid serum/vial)	<b>\$550.00</b>
--	-----------------

<b>Ship Dates</b>	<b>April 20</b>	<b>Jul 6</b>	<b>Nov 9</b>
-------------------	-----------------	--------------	--------------

**Analytes:**

- 093 \*Anti-human Immunodeficiency Virus (HIV)
- 096 \*Hepatitis (HBsAg)
- 097 Hepatitis (anti HCV)
- 181 Hepatitis (anti-HAV) Total \*\*\*\*
- 182 Hepatitis (anti-HBs)
- 183 Hepatitis (ant-HAV IgM) \*\*\*\*

<b>Survey I – Immunology</b> <b>Mycoplasma</b>	<b>\$245.00</b>
---	-----------------

- 548 \*Mycoplasma

## MICROBIOLOGY

### Challenges – 5 per shipment

<b>Ship Dates (2020)</b>	<b>May –11</b>	<b>September – 8</b>	<b>December – 7</b>
--------------------------	----------------	----------------------	---------------------

### BACTERIOLOGY

Survey A- Bacteriology GS (Glass slide)	<b>\$70.00</b>
--	----------------

**Analyte:**

111 \*Gram Stain

Survey B – Bacteriology Direct Antigen detection (Swab with non- viable dried material)	<b>\$110.00</b>
---	-----------------

**Analyte:**

147 \*Streptococcus pyogenes direct antigen  
detec.

Survey C – Bacteriology Id. + Sens. (0.5ml lyophilized sample/vial)	<b>\$310.00</b>
--	-----------------

**Analytes:**

112 \*Bacteriology - Identification  
113 \*Bacteriology – Antimicrobial Susceptibility  
2 per shipment)

### PARASITOLOGY

Survey A – Parasitology (Formalized samples, photomicro- graphs (2) and blood smears if available.	<b>\$250.00</b>
---	-----------------

**Analyte:**

120 \*Concentrations preparations

## VIROLOGY

### Challenges – 5 per shipment

<b>Ship Dates (2020)</b>	<b>May –11</b>	<b>September – 8</b>	<b>December – 7</b>
--------------------------	----------------	----------------------	---------------------

Survey A- Rapid Test	<b>\$ 400.00</b>
----------------------	------------------

**Analytes:**

\*176 Influenza A Qualitative  
\*177 Influenza B Qualitative

**\*CMS regulated and approved**