

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



**CLINICAL LABORATORIES
PROFICIENCY TESTING PROGRAM
CATALOG 2024**

CHEMISTRY Challenges – 5 per shipment

Shop Dates (2024)

February – 5

May – 6

October – 7

**Survey A – Routine Chemistry
(10.0ml lyophilized serum/vial) \$ 215.00**

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 CO₂
- 170 Direct Bilirubin

***CMS regulated and approved**

**Survey C – Routine – Blood Gases
(2.0ml ampules of aqueous material/vial) \$110.00**

Analytes:

- 007 *Blood Gases - pCO₂
- 008 *Blood Gases - pH
- 009 *Blood Gases - pO₂

**Survey D – Endocrinology
(1.5ml liquid serum/vial) \$110.00**

Analytes:

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

**Survey E– Part A–Endocrinology
(5.0ml liquid serum/vial) \$450.00**

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)

**Survey E-
Special Test \$450.00(billed together
with Endo & Special tests) ****

Analytes:

- 068 CEA (Carcinoembryonic Antigen)
- 069 PSA (Prostate Specific Antigen)
- 070 PAP (Prostatic Acid Phosphatase)
- 071 Vitamin B¹²

**Survey F –
Vitamin D \$ 430.00**

- 178 Vitamin D

CHEMISTRY Challenges – 5 per shipment

Ship Dates (2024)

February – 5

May –6

October – 7

Survey E- Part C- Toxicology	\$450.00(billed together with Endo & Special tests)
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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)	\$245.00
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Analyte:

- 146 Glycohemoglobin

Survey G – Occult Blood (Simulated fecal/vial)	\$175.00
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Analyte:

- 154 Fecal Occult Blood

***CMS regulated and CMS approved**

Survey I – Urinalysis (5.0ml liquid urine/vial)	\$285.00
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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)
- 164 Leukocyte

Survey J – Whole Blood Glucose (2.0ml Whole blood/vial)	\$230.00
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Analyte:

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

HEMATOLOGY

Challenges – 5 per shipment

Ship Dates (2024)

March – 4

June – 3

November – 4

**Survey A - Hematology-General
(Photomicrographs) \$100.00**

Analyte:

072 *Cell identification

**Survey D – Hematology-General
(3.0ml Whole blood/vial) \$330.00**

Analytes:

- 172 *Differential WBC for 5 param. Instrument
- 185 * 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

***CMS regulated and CMS approved**

**Survey E – Hematology –
Reticulocyte Count \$330.00
(1.0ml Whole blood/vial)**

Analyte:

149 Reticulocyte Count

**Survey F – Hematology –Eryth.
Sedimentation Rate (ESR) \$275.00
(5.0ml whole blood/vial)**

Analyte:

153 Erythrocyte Sedimentation Rate (ESR)

**Survey G – Coagulation
(1.0ml lyophilized plasma/vial) \$220.00**

Analytes:

- 080 *Fibrinogen
- 081 *Partial thromboplastin time (PTT)
- 082 *Prothrombin time (PT)

**Survey H – Body Fluid Cell Count
(2.0ml Stabilized human red and
white blood cells in a preservative
medium) \$380.00**

Analytes:

- 159 BF Red Cell Count
- 160 BF White Cell Count
- 161 BF Differential Cell Count

***CMS regulated and CMS approved**

IMMUNOHEMATOLOGY

Challenges – 5 per shipment

Ship Dates (2024)

March – 4

June – 3

November – 4

Survey A- Group and Type (1.5ml Whole blood/vial)	\$400.00
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Analytes:

083 *ABO group
126 *Rh (D) type

Survey B – Indirect Coombs (1.5ml liquid serum/vial)	400.00
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Analyte:

084 *Unexpected antibody detection (Ind. Coombs)

Survey C – Direct Coombs (1.5 ml whole blood vial)	\$400.00
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Analyte:

179 Direct Antiglobulin (Direct COOMBS)
(Qualitative test)

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)	\$400.00
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Analytes:

085 *Compatibility testing
086 *Antibody identification

***CMS regulated and CMS approved**

IMMUNOLOGY – GENERAL

Challenges – 5 per shipment

Ship Dates (2024)	April – 1	September – 9	December – 2
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ADD8E6;">Survey A- Special Imm. I (1.0ml liquid serum/vial)</td> <td style="text-align: right;">\$400.00</td> </tr> <tr> <td colspan="2"> 094 *Complement C3 095 *Complement C4 099 *IgA 100 *IgG 102 *IgM </td> </tr> <tr> <td style="background-color: #ADD8E6;">Survey B – Special Imm. II (5.0ml liquid serum/vial)</td> <td style="text-align: right;">\$400.00</td> </tr> <tr> <td colspan="2"> 088 *Alpha - fetoprotein 101 *IgE </td> </tr> <tr> <td style="background-color: #ADD8E6;">Survey C – ANA Test (1.5ml liquid serum/vial)</td> <td style="text-align: right;">\$190.00</td> </tr> <tr> <td colspan="2"> 089 *Antinuclear antibody (ANA) - Qualitative 090 *Antinuclear antibody (ANA) - Quantitative 124 Antinuclear antibody (ANA) – Pattern id. </td> </tr> <tr> <td style="background-color: #ADD8E6;">Survey D – RA-MONO-ASOT-CRP Test (1.5ml liquid serum/vial)</td> <td style="text-align: right;">\$260.00</td> </tr> <tr> <td colspan="2"> 091 *Antistreptolysin O (ASOT) - Qualitative 092 *Antistreptolysin O (ASOT) - Semi Quant 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 </td> </tr> </table>	Survey A- Special Imm. I (1.0ml liquid serum/vial)	\$400.00	094 *Complement C3 095 *Complement C4 099 *IgA 100 *IgG 102 *IgM		Survey B – Special Imm. II (5.0ml liquid serum/vial)	\$400.00	088 *Alpha - fetoprotein 101 *IgE		Survey C – ANA Test (1.5ml liquid serum/vial)	\$190.00	089 *Antinuclear antibody (ANA) - Qualitative 090 *Antinuclear antibody (ANA) - Quantitative 124 Antinuclear antibody (ANA) – Pattern id.		Survey D – RA-MONO-ASOT-CRP Test (1.5ml liquid serum/vial)	\$260.00	091 *Antistreptolysin O (ASOT) - Qualitative 092 *Antistreptolysin O (ASOT) - Semi Quant 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		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ADD8E6;">Survey E – Rubella Test (1.5ml liquid serum/vial)</td> <td style="text-align: right;">\$190.00</td> </tr> <tr> <td colspan="2"> 107 *Rubella - Qualitative 108 *Rubella – Quantitative </td> </tr> <tr> <td style="background-color: #ADD8E6;">Survey F – Syphilis Serology (1.0ml liquid serum/vial)</td> <td style="text-align: right;">\$180.00</td> </tr> <tr> <td colspan="2"> 109 *Qualitative Syphilis Serology 110 *Quantitative Syphilis Serology </td> </tr> <tr> <td style="background-color: #ADD8E6;">Survey G – H. Pylori (1.5ml liquid serum/vial)</td> <td style="text-align: right;">\$380.00</td> </tr> <tr> <td colspan="2"> 155 Helicobacter pylori antibody </td> </tr> <tr> <td style="background-color: #ADD8E6;">Survey H – HIV and Hepatitis (2.0ml liquid serum/vial)</td> <td style="text-align: right;">\$550.00</td> </tr> <tr> <td colspan="2"> 093 *Antihuman Immunodeficiency Virus (HIV) 096 *Hepatitis (HBsAg) 097 Hepatitis (anti HCV) 182 Hepatitis (anti-HBs) </td> </tr> <tr> <td style="background-color: #ADD8E6;">Survey I – Mycoplasma</td> <td style="text-align: right;">\$350.00</td> </tr> <tr> <td colspan="2"> 548 Mycoplasma </td> </tr> <tr> <td style="background-color: #ADD8E6;">Survey J – COVID-19</td> <td style="text-align: right;">\$450.00</td> </tr> <tr> <td colspan="2"> 548 COVID-19 Antibody </td> </tr> </table>	Survey E – Rubella Test (1.5ml liquid serum/vial)	\$190.00	107 *Rubella - Qualitative 108 *Rubella – Quantitative		Survey F – Syphilis Serology (1.0ml liquid serum/vial)	\$180.00	109 *Qualitative Syphilis Serology 110 *Quantitative Syphilis Serology		Survey G – H. Pylori (1.5ml liquid serum/vial)	\$380.00	155 Helicobacter pylori antibody		Survey H – HIV and Hepatitis (2.0ml liquid serum/vial)	\$550.00	093 *Antihuman Immunodeficiency Virus (HIV) 096 *Hepatitis (HBsAg) 097 Hepatitis (anti HCV) 182 Hepatitis (anti-HBs)		Survey I – Mycoplasma	\$350.00	548 Mycoplasma		Survey J – COVID-19	\$450.00	548 COVID-19 Antibody	
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MICROBIOLOGY

Challenges – 5 per shipment

Ship Dates (2024)	April –1	Sep-9	December – 2
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BACTERIOLOGY

Survey A- Bacteriology GS (Glass slide)	\$100.00
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Analyte:

111 *Gram Stain

Survey B – Bacteriology Direct Antigen detection (Swab with non- viable dried material)	\$130.00
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Analyte:

147 *Streptococcus pyogenes direct antigen
detec.

Survey C – Bacteriology Id. + Sens. (0.5ml lyophilized sample/vial)	\$375.00
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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.	\$300.00
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Analyte:

120 *Concentrations preparations
121 *Presence or Absence of Parasite

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VIROLOGY

Challenges – 5 per shipment

Ship Dates (2024)	April –1	September – 9	December –2
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Survey A- Rapid Test	\$ 500.00
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Analytes:

*176 Influenza A Qualitative
*177 Influenza B Qualitative
*555 RSV – Respiratory Syncytial Virus
*561 Covid 19 Antigen

***CMS regulated and approved**