

UNIVERSAL CALENDAR 2023

Clinical Proficiency, Physico-Chemical Analysis, Hemotherapy, Microbiology and Veterinary Medicine

January	April	July	October
M T W T F S S	M T W T F S S	M T W T F S S	M T W T F S S
1	1 2	1 2	1
2 3 4 5 6 7 8	3 4 5 6 7 8 9	3 4 5 6 7 8 9	2 3 4 5 6 7 8
9 10 11 12 13 14 15	10 11 12 13 14 15 16	10 11 12 13 14 15 16	9 10 11 12 13 14 15
16 17 18 19 20 21 22	17 18 19 20 21 22 23	17 18 19 20 21 22 23	16 17 18 19 20 21 22
23 24 25 26 27 28 29	24 25 26 27 28 29 30	24 25 26 27 28 29 30	23 24 25 26 27 28 29
30 31		31	30 31
February	May	August	November
M T W T F S S	M T W T F S S	M T W T F S S	M T W T F S S
1 2 3 4 5	1 2 3 4 5 6 7	1 2 3 4 5 6	1 2 3 4 5
6 7 8 9 10 11 12	8 9 10 11 12 13 14	7 8 9 10 11 12 13	6 7 8 9 10 11 12
13 14 15 16 17 18 19	15 16 17 18 19 20 21	14 15 16 17 18 19 20	13 14 15 16 17 18 19
20 21 22 23 24 25 26	22 23 24 25 26 27 28	21 22 23 24 25 26 27	20 21 22 23 24 25 26
27 28	29 30 31	28 29 30 31	27 28 29 30
March	June	September	December
M T W T F S S	M T W T F S S	M T W T F S S	M T W T F S S
1 2 3 4 5	1 2 3 4	1 2 3	1 2 3
6 7 8 9 10 11 12	5 6 7 8 9 10 11	4 5 6 7 8 9 10	4 5 6 7 8 9 10
13 14 15 16 17 18 19	12 13 14 15 16 17 18	11 12 13 14 15 16 17	11 12 13 14 15 16 17
20 21 22 23 24 25 26	19 20 21 22 23 24 25	18 19 20 21 22 23 24	18 19 20 21 22 23 24
27 28 29 30 31	26 27 28 29 30	25 26 27 28 29 30	25 26 27 28 29 30 31

 Clinical

 Hemotherapy

 Microbiology
Physical and Chemical
Analysis

 Clinical
Veterinary

Notices

The Round is sent up to Wednesday of the week hatched¹. Any change in the above prediction will be reported in advance. The default return term for the results are two weeks, except:

- **ONE WEEK** for **Clinical**: Flow Cytometry (I/II, CD34+ and HPN), Osmotic Fragility, HbS: Sickle Test, Automated Hematology, Erythrocyte Sedimentation Rate and Lamellar Body Count - **Closing Wednesday**. Glycated Hemoglobin II, Molecular Biology (HIV: Total Blood and HTLV: Total Blood), RDT - Point of Care (POC) Biochemistry IV and Urinalysis (Biochemistry, Abnormal Elements and Manual Sedimentation and Automation) - **Closing Friday**.
- **Hemotherapy**: Hemocomponents - part I and Selection of Donors - Closing Wednesday.
- **Veterinary**: Hematology - **Closing Wednesday**.
- **THREE WEEKS** for **Clinical**: Blood Culture for Aerobic Molecular Biology (HBV, HCV, HIV and HTLV), G-Banding Karyotype, Coproculture (I/II), Histocompatibility, Immunohematology, Mycology, Anaerobic Research, Sequencing, Serology (I and II), Parentage Testing and RDT - Point of Care (POC) Anti-HIV.
- **Hemotherapy**: Hemocomponents - part III and NAT
- **Veterinary**: Mycology
- **Microbiology**
- **Physical and chemical analysis**: Tablets
- **NINE WEEKS** for **Clinical**: Mycobacteriology.
- Materials with lower stability will follow on the national shipping date (next week).
- For the issuance of the 2023 Proficiency Certificate, the duration of the program is from the 4th quarter of 2022 to the 3rd quarter 2023.

¹ In the months of January, February, April, May, August, October, November and December the week is hatched from Thursday only to illustrate that the week will also be used to send other services.

January
April
July
October

CLINICAL: AFB Bacilloscopy, ANA HEp2, Antiplatelet Drug, Autoimmunity (I to VI), Biochemistry (I to VI), Calprotectin, Circulating Immunocomplexes, Clostridium difficile - Toxin A and B, Coproculture I and II, Coronavirus (SARS-CoV2) Immunology, Coronavirus (SARS-CoV2): Antigen search by automation, Cryptococcus neoformans - Antigen (Liquor and Serum), Cystatin C, Dermatopathology, D-dimer (Qual and Qnt), Diabetes mellitus, Erythrovirus B19 - Antibodies, Fetal Risk Assessment: 1st trimester, Functional Coprology (I/ II), Glucose 6 - Dehydrogenase Phosphate, Hospital Bacteriology, Immunohematology (Anti-A, B and D, Automation, Elution, General, IAI, Phenotyping - Rh and Kell, TAD, and Cross-Exam), Lipid Profile, Liquor (I/II Dosages, Cell Count and Automation, Markers (Bone Marrow/Growth Markers - Serum and Urine, Diabetes, Hypertension, and Pre-eclampsia), Microscopy Immunology Syphilis, Molecular Biology (Bordetella, Citrobacter, Coronavirus (SARS-CoV2), Coronavirus (SARS-CoV2): saliva, Enterobacter, Enterococcus and Influenza A and B), Molecular Panel (for Gastrointestinal Infections; Meningitis and Encephalitis; Respiratory Infections and Pneumonia; STI and Vaginosis), Mycobacteriology², Parasitology I and II (ZNm), Pathological Anatomy, Procalcitonin, Rapid Diagnostic Test (Anti-HBs, Anti-HCV, Anti-HIV, Chagas, Chlamydia: antigen, Coronavirus (SARS-CoV2): antigen I and II, HBsAg, Ketone, Immunology Coronavirus (SARS-CoV2), Influenza A and B, Marrow/Growth Markers - Serum, Molecular Biology Coronavirus (SARS-CoV2), Molecular Influenza A and B, Molecular Respiratory Syncytial Virus (RSV), Neutralizing Antibodies Research: Coronavirus (SARS-CoV2), RSV, Syphilis and Tumor Markers I and II), Parentage Testing, Research (Anaerobic, Diphtheria bacillus microscopy and Heinz bodies), Toxicology (I to VIII), Saliva, Sequencing (Coronavirus (SARS-CoV2), Detection of Bacterial Genome, Detection of Fungi and Yeasts, Detection of Viral Genome and Neonatal Screening), Serology (I to III), Spectrum, Sperm (Automation, Biochemistry, Manual counting/Vitality, Morphology and Motility), Sweat, Tumor Markers (I to IV), Vitamin C and Widal Reaction.

HEMOTHERAPY: Blood components, Cytomegalovirus, Donor Selection: General, Hemoglobin S, Immunohematology (Automation, Elution, General, IAI, Phenotyping, TAD, Titration Anti-A, Anti-B and Anti-D and Cross-Exam), NAT (I/II), RDT-Point of Care (POC) (Anti-HIV and Donor Selection - Hemoglobin) and Serology (I/II).

MICROBIOLOGY¹: Counting and Research of Environmental Microorganisms, Effluents, Sea Water, Sterile Products, Water (I to VIII), Water for Injection, Water Research and Counting and *Legionella* sp., Water Research *Giardia* spp.

PHYSICAL AND CHEMICAL ANALYSIS: Alkalinity, Aluminum, Antimony and Thallium, Bicarbonate, Boron, Calcium, Carbonate, Chloride, CO₂, Copper, DBO, Dissolved Oxygen, DQO, Fluoride, Free Cyanide, Free Residual Chlorine, Hexavalent Chrome, Iron, Manganese, Mercury, Nitrogen (Nitrate), Nitrogen (Nitrite), Nitrogen Ammoniacal, Oils and Fats, Orthophosphate, Tin, Total and Fixed Solids, Total Chrome, Total Dissolved Solids, Total Phenol, Total Settleable Solids, Toughness, Salinity, Silica, Silver, Sulfate, Sulfide, Sulphite, Suspended Solids, Surfactant and Toluene.

February
May
August
November

CLINICAL: Antigen HLA-B27², Anti-Xa Activity, Bacteriology Ambulatory, Bacterioscopy GRAM, Biochemistry-Amniotic Fluid, Blood Culture for Aerobic, Brucellosis, Cardiac Markers (I, II and BNP Automation), *Chlamydia trachomatis*, Cryoglobulins, Culture of Epidemiological Surveillance (Detection of carbapenemases/ESBL/GBS/ MRSA/ORSA and VRE), Dosage of Galactomannan, *Giardia* antigen, Gynecological Cytopathology and Non-gynecological (Liquids and Erushed and PAAF), Hemoglobinopathies, Histocompatibility, HIV and HTLV Research Liquor, Human Papillomavirus (HPV), Hormones (I to V), Immunology (Anticardiolipin, Antiphospholipid antibodies, ASO Qual/Qnt, Anti-HAV, Anti-HBc, Anti-TPO, Anti-CCP, Aspergillosis, *Bartonella henselae*, *Borrelia burgdorferi*, Chikungunya, CMV, Epstein Barr, Hantavirus, Helicobacter Pylori, Herpes, Histoplasmosis, Leptospirosis, Measles, Mumps, Paracoccidioidomycosis, PCR Qual/Qnt, Rheumatoid Factor Qual/Qnt, Rubella, Syphilis, Toxoplasmosis, *Varicella-Zoster*, Yellow fever and Zika), Immunology Liquid (Cytomegalovirus, Herpes and Toxoplasmosis), Interleukin, Karyotype - G-band² (Constitutional, Fetal and Tumor), Lamellar Body Count, Manual and Hematology Automation (I/II/IV/V), Molecular Biology (Adenovirus, Apolipoprotein E, BK and JC Polyomavirus, Chagas, Chikungunya, Dengue, Enterovirus, *Escherichia coli*, *Giardia* sp., HBV, HCV, HIV, HIV: Total Blood, HTLV and HTLV: Total Blood, Leptospirosis, *Mycobacterium tuberculosis*, *Streptococcus* group A and Yellow fever,), Molecular Epidemiological Surveillance (ERC, ESBL, GBS, MRSA and VRE), Mutation Research (Factor V Leiden, Janus kinase 2 (JAK-2), MTHRF and Prothrombin), Mycology, *Mycoplasma pneumoniae*, Myelogram, *Neisseria gonorrhoeae* (Culture and Molecular Diagnosis), PCR Cardiac, RDT - Point of Care (POC) (BNP, Complex M. *tuberculosis*: antigen, Heart Panel, Hormones, Hormones (AMH), Immunology Yellow Fever, Lactoferrin, Legionella pneumophila: antigen, Troponin I Qualitative and Troponin T), Neonatal Screening (I, Acylcarnitine Profile, Amino acids, Biotinidase, Chagas, Cytomegalovirus, Galactose, G6PD, HIV, Lysosomal Diseases, MCAD Deficiency, Rubella and Toxoplasmosis), Research (Dysmorphism, Eosinophils (Feces, Nasal Mucus and Urine) and Pneumocystis jirovecii - microscopy), Risk of Renal Calculus, Serum Calprotectin, Thromboelastogram, Urine Culture and Zika Virus Molecular Biology (Serum/Urine).

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CLINICAL: Flow Cytometry (I/II, CD34+ and HPN).

VETERINARIA: Anaerobic Research, Asymmetric Dimethylarginine, Bacteriology, Bacterioscopy GRAM, Biochemistry I/II, Bovine Leucosis, Brucellosis (bovine), Canine Immunohematology, Cardiac Markers: NT-proBNP, Coagulation, Cytology, D-Dimer Canine, Equine Infectious Anemia, Glanders (Elisa and FC), Glycated Hemoglobin, Hematology: Canine (I and II), Equine and Feline (I, II, III and IV), Hematoscopy/Hemoparasitology, Hemoculture, Hormones, Hidden Blood, Immunology (Canine Distemper, Canine Ehrlichiosis and Canine Parvovirus), Molecular Biology (*Campylobacter*, *Clostridium*, *Cryptococcus*, *Giardia spp.*, Leptospirosis, Monkeypox (MPX), *Salmonella* and *Toxoplasma gondii*), Mycology, Parasitology, RDT Biochemistry (I and II), Research of antigen (Adenovirus, *Giardia* and Rotavirus), Reticulocytes, Scabies, Somatic Cell Count (microscopy), Veterinary Pathological Anatomy, Visceral Leishmaniasis Canine and Urinalysis (Biochemistry, Abnormal Elements and Sedimentoscopy).

PHYSICAL AND CHEMICAL ANALYSIS: Acid/Base Titration, Alcoholic Beverages: Wine², Density I/II, Dynamic Viscosity, Fluid Milk (Stability to Ethanol, Identification of Starch, Chlorides, Chlorine/Hypochlorite, Formaldehyde, Alkaline Phosphatase, Neutralizers, Sucrose, Hydrogen Peroxide and Peroxidase), Humidity I/II, Melting Point, Refractometry and Tablets² (Acetylsalicylic acid, Atenolol, Hydrochlorothiazide, Mebendazole, Nimesulide, Paracetamol, Physical Tests and Sodium Dipyrone).

March
June
September
December

CLINICAL: Adenovirus, Allergies (I to VIII), Amino Acids (Plasma and Urine), Anemia, Bordetella sp. Culture, Catecholamines, Cavity Fluids (Biochemical, Cell Count on camera and Automation and Immunology), Cells LE Research, Coagulation (I to V), Dengue, Dengue NS1, Drugs of Abuse (urine RDT and Automation, Hair and saliva), Immunosuppressive Drugs (I/II), Therapeutic Drugs (I/II/III), Fetal Sexing, Gasobio and Gasobio: Hematocrit, Gasometry, Glycated Hemoglobin (I, II and III), HbS: Falcization Testing, Helicobacter pylori (general and urease), Hematoscopy, Hemochromatosis: Mutation Research, Hemoglobin H Research, Hemoparasitology, Hemosedimentation (Alifax, General I, II, III and IV), Immunofixation of Proteins (serum and urine), Immunoproteins (I/II), Legionella pneumophila: Culture, Leprosy, Manual Sediment and Automation) Meningitis Panel, Molecular Biology (Acinetobacter baumannii, Aspergillus spp., Campylobacter, Candida, CMV, Clostridium Difficile, Epstein-Barr, Erythrovirus B19, Herpes Virus, Klebsiella, Legionella, Mayaro, Mycoplasma pneumoniae, Salmonella, Staphylococcus, Sporothrix schenckii, Toxoplasma gondii and Varicella-Zoster), Molecular Diagnostics (Chlamydia trachomatis and Clostridium difficile: antigen), Neonatal bilirubin, Norovirus, Occult Blood, Osmotic Fragility, Oximetry, Platelet Aggregation I and II, Porphonilinogen, Porphyrins, Premature Membrane Rupture: Fern Test, Protein Electrophoresis, Q10 Coenzyme, RDT-Point of Care (POC) (Biochemical I, II III (HDL) and IV, Biochemistry Urine, Coagulation I and II, Glucose, HCG, RDT Premature Membrane Rupture and Streptococcus group A), Renal Calculus, Reticulocytes (Automation General I and II, Manual and Sysmex), Rotavirus, Serology V, Sinovial Liquid: Crystals Identification, Specific Proteins, Urinalysis (Biochemical, Special Biochemical, Abnormal Elements (EA)), Visceral Leishmaniasis and Vitamin K.

MICROBIOLOGY: Coffees, Teas and Infusion Products, Cosmetics, Food (General, Flour Similar, Meat products I and II and Milk and Derivatives), Medicines, Molecular Biology Coronavirus (SARS-CoV2): food and Non-Alcoholic Beverages.

PHYSICAL AND CHEMICAL ANALYSIS: Fish² (Ammonia Test, Histamine and Sulfidic Gas Test), Fluid Milk (I to IV), Fruit Juice² (Ascorbic Acid, Density, pH, Soluble Solids (°Brix), Sorbitol, Total Sugars and Total Titratable Acidity), Meat Products (I, III, IV, VI and VII), Meat Products: Qualitative and Quantitative Starch, Milk Powder, Oils and Fats (Determination of Soaps, Kreis Reaction, Acidity Index, Iodine, Peroxides, Refractive and Saponification)², Olive Oil: Specific Extinction, Oral Solution² (Dipyrone Sodium and Paracetamol), Quantitative Milk Somatic Cell Count (Microscopy), Sanitation: Sanitary Water² and Tests Limits I/II².

²Program sent biannually: Antigen HLA-B27, Karyotype G-banding, and Tablets in May and November. Flour, Fuels, Honey, Mycobacteriology, ORP – Potential and Salt in January and July. Alcoholic Beverages: Wine, in February and August. Sugar in April and October. Limit Tests, Fish and Oral Solution in June and December. Fruit Juice, Meat Products: Qualitative and Quantitative Starch, Oils and Fats and Sanitation in March and September.

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