

TEST	Tubes Type	No Additive	Serum Clot Activator	Serum Gel+Clot Activator	Coagulation Sodium Citrate 3.2% and 3.8%	E.S.R - Sodium Citrate 3.8%	EDTA K <sub>2</sub>	EDTA K <sub>3</sub>	Lithium Heparin	Gel + Lithium Heparin	Sodium Fluoride/ Sodium Heparin	Urine test tube	Urine test tube 1% Boric Acid
<b>URINE</b>													
Urinary sediment analysis - cell counting, quantitative, qualitative													
Endogenous physiological substances - urea, creatinine, electrolytes, etc.													
Endogenous pathological substances - hormones with tumours, glucose, proteins with renal disorders, hemoglobin with hemolysis, bile pigments with liver disorder, etc.													
Exogenous substances - drugs and drugs of abuse or their metabolites, heavy metals or other toxins, bacteria, viruses or parasites with infections, etc.													
<b>CLINICAL CHEMISTRY</b>													
Metabolites - B-bilirubin conjugated -direct, -indirect, cholesterol, fructosans, uric acid, urea, HDL -cholesterol, creatinine, LDL-cholesterol, lipoprotein (a), triglyceride, etc.													
Electrolytes - chloride, sodium, potassium & magnesium (values higher in serum than in plasma), etc.													
Enzymes - ALAT, aldolase, AP, amylase, ASAT, cholinesterase, CK, CK-MB, lipase, etc.													
Proteins - albumin, $\alpha_1$ -antitrypsin, $\alpha_1$ -acid glycoprotein, $\alpha_2$ -macroglobulin, microglobulin ( $\alpha_1$ - $\alpha_2$ ), CD1, ceruloplasmin, CRP, ferritin, hemopexin, haptoglobin, IgA, IgE, IgG, IgM, myoglobin, neopterin, prealbumin, total protein, osteocalcin, paracalcitonin, TBG, transferrin, troponin-I, troponin-T, etc.													
Thyroid function - MAK, TAK, TRAK, TBG, free T3, free T4, total T3 (serum is recommended), total T4, TSH, T3-uptake-test													
Hormones - aldosterone, androstenedione, C-peptide, calcitonin, cortisol, DHEA, DHEAS, estradiol, FSH, HCG, parathormone (PTH), progesterone, prolactin, testosterone, etc.													
Tumor markers - AFP, CA125, CA15-3, CA19-9, CA50, CA72-4, CA549, calcitonin (hCT), CEA, CYFRA21-1, HCG, MCA, PSA, SCC, TG, TPA, etc.													
Cytokines - interferone, interleukin, interleukin-receptors, tumor necrosis factors, etc.													
Trace elements - aluminium, arsenic, lead, cadmium, chrome, iron, fluoride, cobalt, copper, lithium, manganese, mercury, molybdenum, selenium, thallium, zinc													
Vitamins - Folic acid													
Vitamins - A, B12, C, 1,25-dihydroxy-vitamin D3, 25-Hydroxyvitamin D3, E, folic acid													
Vitamins - B1, B2, B12, folic acid													
Vitamins - B1, B2, B6, B12, E, K													
TDM - antiepileptics, bronchodilators, cardiac medication, antibiotics, immunosuppressives, antidepressants, psycho-tropic drugs, analgesics													
<b>HEMATOLOGY</b>													
Hemoglobin - free hemoglobin (qualitative & quantitative in plasma), carboxyhemoglobin (CO-Hb), methemoglobin, (metHb), hemoglobin F, hemoglobin A1c													
Complete blood count (CBC) - hemoglobin, hematocrit, erythrocytes, MCV, MCH, MCHC, leukocytes, thrombocytes, reticulocytes, differential blood count													
Differentiation of Lymphocytes - B-lymphocyte, T-lymphocyte, T-helper-cells (CD-4), T-suppressor cells (CD-8), natural killer cells													
<b>COAGULATION</b>													
Coagulation - quick test, aPTT, PTZ, antithrombin III, D-dimers, fibrinogen, fibrin degradation, coagulation factors, plasminogen, protein C, protein S													
<b>IMMUNOLOGY</b>													
Serology - ANA, anti-DNA, antistaphylococcal, antistreptolysin, C3/C4, CRP, protein-electrophoresis, rheumatoid factor, Rose-Waaler test, immune complex, immunoelectroph.													
Autoantibodies - AMA, ANA, ANCA													
Antibodies against exogenous antigens (allergy) - total IgE, allergy specific IgE													
Complement - CH50, C4, C1-INH, C3, C1q, factor B													
Immune hematology - blood group (ABO), Rh-factor, minor-major crossmatch, direct/indirect Coombs-test, cold agglutinin, cryoglobulins													
<b>SPECIALTY</b>													
Erythrocyte Sedimentation Rate (E.S.R)													
Glucose und Lactate													
Cerebrospinal fluid (CSF) - clinical chemistry, microbiological, cytological - examinations													
<b>MICROBIOLOGICAL SEROLOGY</b>													
Hepatitis serology (antibodies and antigens) - IgG- or IgM- antibodies e.g. anti-HAV, HBe, HBe, HDV, HEV and antigens e.g. HBe, HBe-antigen													
Antibodies against other viruses - IgG, IgM- antibodies against e.g. CMV, EBV, HHV type6, HSV, VZV, Adenovirus, Coxsackie virus, Dengue virus, ECHO virus, FSME, Hantavirus, HIV, HPV, Measles virus, Mumps													
Antibodies against parasites - Antibodies against e.g. Amoeba, Echinococcus, Filarie, Malaria, Schistosoma, Toxoplasmosis													
Antibodies against bacteria and bacterial toxin - Antibodies against e.g. Bordetella pertussis, Brucella, Chlamydia, Helicobacter pylori, cat scratch disease, Legionella, Listeria, Mycoplasma pneumoniae, Q fever, Rickettsia, Spirochaeta, Borrelia, Leptospira, Treponema													
Antibodies against fungi - Antibodies against e.g. Aspergillus, Blastomycosis, Candidiasis, Coccidioidomycosis, Cryptococcosis													
Lues serology - TPHA													
Molecular biological identification of viruses, bacteria and parasites - (PCR, LCR, hybridization), e.g.: HBV-DNA, HCV-RNA, HIV-RNA													

The information contained in these tables are summary recommendations of the manufacturer. The user is obliged to verify the correctness of the data and the suitability of the tubes for the test that intends to carry out. Nuova Aptaca Srl is not responsible for any errors and/or omissions.

Les informations contenues dans ces tableaux sont des instructions sommaires du fabricant. L'utilisateur est tenu de vérifier l'exactitude des données et aussi l'adéquation du type de tube pour le test que le client doit effectuer. Nuova Aptaca Srl n'est pas responsable pour les éventuelles erreurs et/ou omissions.

Le informazioni contenute nella presente tabella sono indicazioni sommarie del produttore. L'utilizzatore ha l'obbligo di verificare la correttezza dei dati e l'idoneità del tipo di provetta per il test che intende effettuare. La Nuova Aptaca Srl non è responsabile di eventuali errori e/o omissioni.

**Take note:** the maximum tolerance of the vacuum is  $\pm 10\%$ . The blood quantity taken with vacuum tubes can vary with altitude, temperature, atmospheric pressure, the test tube production date, the pressure and venous sampling technique.

**Marques:** la tolérance maximale du vide pré-calibré est  $\pm 10\%$ . La quantité de sang prélevé avec les éprouvettes sous vide peut varier en fonction de l'altitude, de la température, de la pression atmosphérique, de la date de production de l'éprouvette, de la pression veineuse et de la technique de prélèvement.

**Nota bene:** la tolleranza massima del vuoto precalibrato è del  $\pm 10\%$ . La quantità di sangue prelevato con le provette sottovuoto può variare con l'altitudine, la temperatura, la pressione atmosferica, la data di produzione della provetta, la pressione venosa e con la tecnica di prelievo.

