

Code	Tube Type
Z	Clot activator
Z	Clot activator + Gel
LH	Lithium Heparin
LH SEP	Lithium Heparin + Gel
NH	Sodium Heparin
AH	Ammonium Heparin
K2E	EDTA K2
K3E	EDTA K3
K3ELiquid	EDTA K3 liquid
FE	EDTA NaF
FX	KO ₂ NaF
LH/MJA	LH/MJA
9NC	Coagulation 3.2%
9NC	Coagulation 3.8%
9NC	CTAD
	ACD A, ACD B, CPDA
Z	Z Serum Crossmatch
K3E	K3E Crossmatch
NH	NH Trace Elements
Z	Z Serum Trace Elements
K2E Sep	EDTA K2 + Gel
	Urine Tube Boric Acid
	Urine Tube Boric Acid
Z	No Additive
4NC	ESR

Tests

Category	Test	Z	Z	LH	LH SEP	NH	AH	K2E	K3E	K3ELiquid	FE	FX	LH/MJA	9NC	9NC	9NC	Z	K3E	NH	Z	K2E Sep		Z	4NC	
Urine	Urinary sediment e.g.: quantitative, qualitative, cell counting																								
	Endogenous physiological substances e.g.: urea, creatinine, metabolites from the metabolism, electrolytes, amongst others																								
	Endogenous pathological substances e.g.: proteins with renal disorders, hemoglobin with hemolysis, bile pigments with liver disorders, porphyrins with porphyria, hormones with tumours, glucose etc.																								
	Exogenous substances e.g.: drugs and drugs of abuse or their metabolites, heavy metals or other toxins, bacteria, viruses or parasites with infections																								
Clinical Chemistry	Metabolites e.g.: ammonia ¹ , apolipoprotein A1, -B, bilirubin conjugated -direct, -indirect, cholesterol, fructosan, uric acid, urea, HDL-cholesterol, creatinine, LDL-cholesterol, lipoprotein (a), phosphate ² , triglyceride																								
	Electrolytes e.g.: calcium ³ , chloride, potassium ⁵ , sodium ⁴ , magnesium ^{5,6}																								
	Enzymes e.g.: ALAT, aldolase, AP, amylase, ASAT, cholinesterase, CK, CK-MB, GGT, GLDH, HBDH, LDH, lipase, SP, SPP																								
	Proteins e.g.: albumin, α ₁ -antitrypsin, α ₁ -acid glycoprotein, α ₂ -macroglobulin, microglobulin (α ₁ -β ₂ -), CDT, ceruloplasmin, CRP, ferritin, hemopexin, haptoglobin, IgA, IgE, IgG, IgM, myoglobin, neopterin, osteocalcin, prealbumin, procalcitonin, proteinaelectrophoresis ¹¹ , total protein, TBG, transferrin, troponin-I, troponin-T																								
	Thyroid functions e.g.: MAK, TAK, TRAK, TBG, free T3, free T4, total T3 ⁷ , total T4, TSH, T3-uptake-test																								
	Hormones¹² e.g.: ACTH ⁸ , aldosterone, androstenedione, C-peptide, calcitonin, cortisol, DHEA, DHEAS, estriol, estradiol, FSH, HCG, parathormone (PTH), progesterone, prolactin, renin ⁹ , testosterone																								
	Tumour markers e.g.: AFP, CA125, CA15-3, CA19-9, CA50, CA72-4, CA549, calcitonin (HCT), CEa, CYFRA21-1, HCG, MCA, NSE ¹⁰ , PSA, SCC, TG, TPA																								
	Cytokines e.g.: interferone, interleukin, interleuki-receptors, tumour necrosis factors or INF-α, INF-β, IL-2, IL-6, IL-2-receptor, TNF-α																								
	Trace elements e.g.: aluminium ⁸ , arsenic, lead, cadmium, chrome, iron, fluoride, cobalt, copper, lithium ⁴ , manganese ⁸ , molybdenum, mercury, selenium, thallium, zinc																								
	Vitamins Folic acid Vitamin -A, -B12, -C, 1,25-dihydroxy-vitamin D3, 25- hydroxy-vitamin D3, E, folic acid Vitamin -B1, -B2, -B12, Folic acid Vitamin -B1, -B2, -B6, -B12, -E, -K																								
TDM e.g.: antiepileptics, bronchodilators, cardiac medication, antibiotics, immunosuppressives, antidepressants, psychotropic drugs, analgesics																									
Hematology	Hemoglobin e.g.: free hemoglobin (qualitative and quantitative in plasma), carboxyhemoglobin (CO-Hb), methemoglobin (methHb), hemoglobin F, hemoglobin A1c																								
	Complete Blood Count (CBC) e.g.: hemoglobin, hematocrit, erythrocytes, MCV, MCH, MCHC, leukocytes, thrombocytes, reticulocytes, differential blood count																								
	Differentiation of Lymphocytes e.g.: B-lymphocyte, T-lymphocyte, T-helper-cells (CD-4), T-suppressoc cells (CD-8), natural-killer-cells																								
Coagulation	Coagulation e.g.: quick test, aPTT, PTZ, antithrombin III, D-dimers, fibrinogen, fibrin degradation, products (FDP) ¹³ , coagulation factors, plasminogen, protein C, protein S																								
	Serology e.g.: ANA, anti-DNA, antistaphylolysin, antistreptolysin, C3/C4, CRP, HLA B27 ¹⁴ , protein-electrophoresis ¹¹ , rheumatoid factor, Rose-Waaler test, immune complex ¹¹ , immunoelectrophoresis ¹¹																								
	Autoantibodies e.g.: AMA, ANA, ANCA																								
	Antibodies against exogenous antigens (allergy) e.g.: total IgE, allergy specific IgE																								
	Complement e.g.: CH 50, C4, C1-INH, C3, C1q, factor B																								
Immune hematology e.g.: blood group (ABO), Rh-factor, minor/major crossmatch, direct/indirect Coombs'-test, cold agglutinin, cryoglobulins																									
Specialities	Erythrocyte Sedimentation Rate																								
	Glucose und Lactate																								
	Cerebrospinal Fluid (CSF) e.g.: clinical chemistry-, microbiological-, cytological- examinations																								
	Hepatitis-serology (antibodies and antigens) IgG- or IgM- antibodies e.g.: anti-HAV, -HBs, -HBc, -HBe, -HDV, -HEV and antigens, e.g. BBs-, HBe-antigen																								
	Antibodies against other viruses IgA-, 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 virus, Parainfluenza virus 1,2,3, Parvovirus B19, Picornavirus, Rhinovirus, Rubella virus, RSV																								
	Antibodies against parasites Antibodies against e.g.: Amoeba, Echinococcus, Filariæ, 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 pneumonia, Q fever, Rickettsia, Spirochaeta: Borrelia, Leptospira, Treponema																								
	Antibodies against Fungi Antibodies against e.g.: Aspergillosis, Blastomycosis, Candidiasis, Coccidioidomycosis, Cryptococcosis																								
	Lues Serology e.g.: TPHA																								
	Molecular Biological Identification of Viruses, Parasites and Bacteria (PCR, LCR, hybridization), e.g.: HBV-DNA, HCV-RNA, HIV-RNA																								

Note: 1-Determination of ammonia only possible in EDTA-plasma 2-Inorg. phosphate in serum is approx. 10% higher than in plasma 3-EDTA-plasma is unsuitable for calcium; ionized calcium only in heparin-plasma 4-Do not measure sodium from sodium-heparin tube / lithium from lithium-heparin tube 5-The values for potassium and magnesium are higher in serum than in plasma 6-EDTA-plasma is unsuitable for magnesium determination 7-For T3 the use of serum is recommended 8-Do not use serum tubes for ACTH, aluminium and manganese determinations 9-Renin only out of EDTA plasma 10-NSE only out of heparin plasma 11-Only use serum 12-Hormones are unstable, stabilizers are recommended 13-Do not use citrate plasma for FDP; use serum oder thrombin/trypsin inhibitor mixture 14-HLA B27 only in Heparin- or EDTA-blood

