



میزان پایداری آنالیت‌ها در نمونه‌های جمع‌آوری شده (سرم، پلاسما، ادرار) در شرایط آزمایشگاهی

Analyte	Collection type	Stability (20°C-25°C)	Remarks
Adrenaline			see catecholamines
Alanine aminotransferase (ALAT, GPT)	Serum collection	3 days	
Albumin	Serum collection Urine collection	2.5 months 7 days	do not freeze
Aldosterone	EDTA-plasma collection	4 days	not recommended for ambulant use
Alkaline phosphatase (ALP) - total - bone	Serum collection	7 days 7 days	take care of hemolysis and lipaemia
Aluminium		1 week	
Ammonia	EDTA-or heparin plasma collection	15 min.	avoid impurity by sweat-ammonia
α -Amylase - total - pancreas	Serum collection Urine collection Serum collection Urine collection	7 days 2 days 7 days 2 days	avoid impurity by saliva
Androstenedione	Serum collection	1 day	
Antistreptolysin O	Serum collection	2 days	
Antithrombin III	Citrate plasma collection	7 days	
α -1antitrypsin	Heparin plasma collection	3 months	
Apolipoprotein A-1	Serum collection	1 day	do not freeze
Apolipoprotein B	Serum collection	1 day	do not freeze
Aspartate-aminotransferase (ASAT, AST)	Serum collection	4 days	
Bence-Jones protein (K- λ light chains)	Urine collection	7 days	
Bicarbonate	Heparinized whole blood Blood gas collection	closed 1 day after opening 1 hour	
Bilirubin - total - conjugated	Serum collection Serum collection	1 day 2 days	dark storage
Blood sedimentation (BSR/ESR)	BSR/ESR determination	2 hours	temperature dependent
C-peptide	Serum collection	3 hours	
C-reactive protein (CRP)	Serum collection	15 days	
C_2 -complement	Serum collection	10 days	antibody dependent C_2 rises C_3 falls
C_3 -complement	Serum collection	2 days	
CA 125	Serum collection	3 days	
CA 15-3	Serum collection	5 days at 4°C-8°C	
CA 19-9	Serum collection	7 days	
CA 72-4	Serum collection	7 days	
Cadmium			
Calcium - total - ionized	serum collection serum collection with gel tube	7 days 8 hours	
Carbamazepine	serum collection	2 days	
Carbohydrate deficit transferrin (CDT)	serum collection		stable for 7 days at 4°C-8°C
Carcinoembryonic antigen (CEA)	serum collection	1 day	
Catecholamines (adrenaline, dopamine, noradrenaline)	Catecholamine 792 N 7.5	1 day	the plasma, collected at -20°C has a stability of 6 months
Chloride	Serum collection	7 days	take care of haemolysis
Cholesterol - total - HDL - LDL	Serum collection Serum collection Serum collection	7 days 2 days 1 day	take care of lipaemia and hyperbilirubinemia
Cholinesterase (CHE)	Serum collection	7 days	
Chorionic gonadotropin human (HCG)	Serum collection	1 day	
Cocaine	Serum collection	< 30 min.	
Ceruloplasmin	Serum collection	8 days	
Copper		2 weeks	
Cortisol	Serum collection	7 days	
Creatine kinase (Ck) - total - CK-MB	Serum collection Serum collection	2 days 2 days	take care of hemolysis and hyperbilirubinemia dark storage CK-BB instable
Creatinine	Serum collection Urine collection	7 days 2 days	take care of hemolysis
Cyclosporine	EDTA whole blood	13 days	

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CYFRA 21-1	Serum collection	3 days	
Dehydroepiandrosterone sulphate (DHEA-S)	Serum collection	1 day	
Diazepam	Serum collection	5 months	
Differential blood count leukocytes - band neutrophils - segmented neutrophils - monocytes - lymphocytes - eosinophils - basophils	EDTA blood collection	dependent on the instruments used 2-12 hours 3-12 hours 2-12 hours 3 hours - 4 days 9 hours - 6 days 12 hours - 2 days	reduction of stability caused by underfilling of the test tube
Digitoxin	Serum collection	2 weeks	
Digoxin	Serum collection	2 weeks	
Dopamine			see catecholamines
Erythropoietin	Serum collection	2 weeks	dispatch at -20°C
Estradiol	Serum collection	1 day	
Estriol	Serum collection	1 day	
Ethanol	EDTA blood collection or heparin blood collection	2 weeks 2 weeks	
Factor II	Citrate blood collection	6 hours	take care of lipaemia
Factor V	Citrate blood collection	1 day	centrifuge at 4°C
Factor VII	Citrate blood collection	6 hours	take care of lipaemia
Factor VIII	Citrate blood collection	3 hours	take care of lipaemia
Factor IX	Citrate blood collection	6 hours	take care of lipaemia
Factor X	Citrate blood collection	6 hours	take care of lipaemia
Factor XI	Citrate blood collection	2 hours	take care of lipaemia
Factor XII	Citrate blood collection	2 hours	take care of lipaemia
Factor XIII	Citrate blood collection	4 hours	take care of lipaemia
Fatty acids, free	Serum collection	30 min.	
Ferritin	Serum collection	7 days	
α-1Fetoprotein (AFP)	Serum collection	3 days	
Fibrinogen	Citrate plasma collection	7 days	take care of lipaemia
Fibrinopeptide A	Citrate plasma collection		
Follicle-stimulating hormone (FSH)	Serum collection	2 weeks	
Fructosamine	Serum collection	3 days	
Gastrin	Serum collection		
Glucose	NaF blood collection Blood lysate Deproteinization	2 days 2 days 2 days	
Glutamic acid dehydrogenase (GLDH)	Serum collection	1 day	take care of lipaemia
Glutamic-oxaloacetic transaminase (GOT)	Serum collection	24 hours > 2% reduced	from Hb-concentration 2.5g/l in serum approx. 10% increased
Glutamic-pyruvic transaminase (GPT)	Serum collection	24 hours > 8% reduced	from Hb-concentration 1.5g/l in serum approx. 8% increased
γ-Glutamyl-transferase (γ-GT) (GGT)	Serum collection	7 days	take care of hemolysis
Hematocrit, centrifuge	Hematocrit capillaries	1 day	
Hemoglobin	EDTA blood collection	4 days	take care of lipaemia, protect against sunlight
Haptoglobin	Serum collection	4 days	dependent on the method
HbA1c	EDTA blood collection Boehringer blood lysate Merck blood lysate	3 days 12 hours 5 days	
Hepato-Quick	Citrate plasma collection	6 hours	
Homocysteine	Homocysteine blood collection	36 hours	
Immunoglobulin A	Serum collection	8 months	take care of lipaemia
Immunoglobulin D	Serum collection	7 days	
Immunoglobulin E	Serum collection	7 days	
Immunoglobulin G	Serum collection Urine collection	4 months	do not freeze
Immunoglobulin M	Serum collection	2 months	
Insulin	Serum collection	4 hours	
Iron	Serum collection Urine collection	7 days 3 days	take care of hemolysis
Lactate	NaF blood collection Blood lysate Deproteinization	3 days 2 days 3 days	
Lactate dehydrogenase (LDH)	Serum collection	7 days	take care of hemolysis, all isoenzymes serum > plasma

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Lipase	Serum collection	7 days	
Lipoprotein (a)	Serum collection	2 days	
Lithium	Serum collection	24 hours	enrichment in erythrocytes
Lutropin (LH)	Serum collection	1 day	
Lysergic acid diethylamide (LSD)	Serum collection	4 weeks	take care of hemolysis
Magnesium	Serum collection	7 days	
α-1Microglobulin	Urine collection	7 days	
α-2Macroglobulin	Urine collection	7 days	
Methotrexate	Serum collection		dark storage
Morphine	Urine collection		
Myoglobin	Serum collection	2 days	take care of lipaemia
β-N-acetylglicosaminidase (β-NAG)	Urine collection		
Neuron specific enolase (NSE)	Heparin plasma collection	2 days	Can only be frozen once
Nitrazepam	Serum collection		dark storage
Osmolality	Serum collection Urine collection	3 hours 3 hours	
Parathyrin	EDTA blood collection	6 hours	dependent on the method
p CO ₂	Blood gas Blood gas capillaries	15 min. 15 min.	
pH	blood gas Blood gas capillaries	15 min. 15 min.	
Fetal blood analysis			decrease through building of lactation increase through loss of CO ₂
Phenobarbitone	Serum collection	6 months	
Phenytoin	Serum collection	2 days	
Phosphate, inorganic	Serum collection	1 day	
Platelet dependent hemostasis capacity (PHC)	PHC blood collection	4 hours	take care of hemolysis
Platelet factor 4 (PFH)	CTAD-plasma collection	4 hours	
pO ₂	Blood gas Blood gas capillaries	15 min. 15 min.	
Potassium	Serum collection Urine collection	1 week 45 days	take care of hemolysis and lipaemia
Procainamide	Serum collection		
Progesterone	Serum collection	1 day	
Prolactin	Serum collection	1 day	
Prostatic-specific antigen (PSA)	Serum collection	1 day	
Protein	Serum collection Urine collection	6 days 1 day	
Protein C	Citrate blood collection	8 hours	
Protein electrophoresis	Serum collection	1 day	
Protein S	Citrate blood collection	4 hours	
Quick's value (PT)	Citrate blood collection	1 day	dependent on reagents
Reptilase time	Citrate blood collection	4 hours	
Reticulocyte count	R 40	3 hours	
Rheumatoid factor (RF)	Serum collection	1 day	
Selenium		1 week	
Sodium	Serum collection Urine collection	2 weeks 45 days	
Somatotropin (STH)	Serum collection	1 day	
Testosterone	Serum collection	1 day	
Theophylline	Serum collection	3 months	
Thrombin coagulase	Citrate plasma collection	8 hours	
Thrombin time	Citrate plasma collection	4 hours	dependent on reagents
Thrombocyte count	TTV/TTK	24 hours	
Thromboplastin time (PTT)	Citrate plasma collection	1 day	dependent on reagents
Thromboplastin time, partial (aPTT)	Citrate plasma collection CTAD-plasma collection	4 hours 4 hours	dependent on reagents dependent on reagents
Thyroglobulin	Serum collection	1 day	
Thyroid-stimulating hormone (TSH)	Serum collection	1 day	
Thyroxine (T ₄)	Serum collection	2 days	
Thyroxine, free (FT ₄)	Serum collection	2 days	
Thyroxine-binding globulin (TBG)	Serum collection	5 days	
Tobramycin	Serum collection	instable	stable for 3 days at 4°C-8°C
Transferrin	Serum collection	8 days	take care of lipaemia

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Triglyceride	Serum collection	2 days	
Triiodothyronine (T ₃)	Serum collection	2 days	
Triiodothyronine, free (FT ₃)	Serum collection	1 day	
Troponin T	Serum collection	1 day	
Urea	Serum collection Urine collection	7 days 2 days	
Uric acid	Serum collection	3 days	take care of hyperbilirubinemia
Valproic acid	Serum collection	2 days	
Vitamin A	Serum collection		dark storage
Vitamin B1	Serum collection		
Vitamin B2	Serum collection		dark storage
Vitamin B6	EDTA plasma collection	30 min.	dark storage
Vitamin B12	EDTA plasma collection	15 min.	dark storage
Vitamin C	Serum collection		stable for 3 hours at 4°C
Vitamin D 25-hydroxycholecalciferol	Serum collection	2 days	
Vitamin E	Serum collection		
Vitamin K	Serum collection	instable	dark storage of serum stable for 3 months at -20°C
von Willebrand factor	Citrate plasma collection	2 days	
Zinc		1 week	