



INSTAND e. V.

**Society for Promoting Quality Assurance
in Medical Laboratories e. V.**

WHO Collaborating Centre for Quality Assurance and Standardization in Laboratory Medicine

Program

of External Quality Assessment Schemes in Medical Laboratories

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Current fees for INSTAND QAS: net amount plus legal reduced value added tax and additional costs of shipping expenses

Please take notice of the following alteration in our program:

Because of low participation you can order the samples any time.

No. 126 Clinical chemistry - dry chemistry (Cholestech)

No. 123 Clinical chemistry - dry chemistry (Spotchem/Cobas Ready)

No. 630 ACE (Kuschak / Gerritzen)

- 2 samples; 0,5 mL serum, lyophilized - (Order for additional sets is not possible at the moment) 49,00 € /Survey
ACE (Angiotensin-converting-enzyme)

No. 720 Allergy diagnostic (Schellenberg / Zouboulis)

- 1 set of samples: 5 x lyophilized samples à 1,0 resp. 0,5 mL serum - 110,00 € /Survey
Four samples for determination of inhalation allergy and food allergy 81,00 € Add. set
One sample for determination of total-IgE

No. 710 Amino acid analysis (Schadewaldt / Reinauer)

- 2 samples variable volumes, lyophilized respectively liquid samples - 31,00 € /Survey
16,00 € Add. set

Quantitative (Plasma, P, and Urine, U):

Alanine	Citrulline	3-methyl-histidine	Methionine	Tryptophan
β-alanine	Cystathionine	Homocystine (U)	Ornithine	Tyrosine
alpha-aminoadipic acid	Cystine	4-hydroxy-proline	Phenylalanine	Valine
β-aminoisobutyric acid (U)	Glutamine	Isoleucine	Proline	
Arginine	Glutamic acid	allo-isoleucine (P)	Serine	
Argininosuccinic acid (U)	Glycine	Leucine	Taurine (P)	
Asparagine	Histidine	Lysine	Threonine	

Qualitative (Urine):

AADG (2-acetamido-1-L-β-aspartatamido-1,2-dideoxy-β-D-glucose)			β-mercaptolactate-cysteic-disulfide	
Anserine		Ethanolamine	Phosphoethanolamine (P,U)	
Argininosuccinic acid (P)		Hawkinsin	Saccharopine	
Asparagine (P,U)		1-methyl-histidine	Sarcosine (P,U)	
Ne-(β-aspartyl)lysine		3-hydroxykynurenin	S-sulfocysteic	
Carnosine		Hydroxylysine	Taurine	
Cysteic-homocysteic-disulfide (P,U)		Kynurenine		

Diagnosis (proficiency testing)

No. 620 Arteriosclerosis I (Wood / Reinauer)

- 2 samples plasma or serum à 3 mL - 37,00 € /Survey
Vit. B12 Folic acid Homocystein 20,00 € Add. set
Pyridoxal-5-phosphate (vitamin B6)

No. 251 Autoimmune diseases I (Seelig / Blüthner)

- 2 samples, serum - 41,00 € /Survey
Antinuclear antibodies ANA anti-DNA antibodies 20,00 € Add. set

No. 253 Autoimmune diseases II (Seelig / Blüthner)

- 2 samples, serum - 41,00 € /Survey
Antibodies against Mitochondria Microsomes (LKM 1) Smooth muscles 20,00 € Add. set
Actin Parietal cells (H+/-K+-ATPase)

No. 255 Autoimmune diseases III (Seelig / Blüthner)

- 2 samples, serum - 41,00 € /Survey
20,00 € Add. set
Antibodies against Scl70 / Topoisomerase I PM/Scl U1-snRNP (70k-, A-, C-proteins) Jo1 / Histidyl-tRNA-Synthetase
Sm (B'B-, D-proteins) SSB/La SSA/Ro (52kD-/ 60kD-proteins)

No. 257 Autoimmune diseases IV (Seelig / Blüthner)

- 2 samples, serum - 41,00 € /Survey
Antibodies against neutrophilic granulocytes (cANCA/pANCA) PR3-ANCA (proteinase 3) 20,00 € Add. set
MPO-ANCA (myeloperoxidase) Glomerular basement membrane antigens

No. 259	Autoimmune diseases V	(Seelig / Blüthner)
- 2 samples, serum -		
Antibodies against spine cells desmosomes/ICSA	epidermal basement membrane desmogleine 1/3	hemidesmosomal antigens BPAg 1/2 collagen type VII
		41,00 € /Survey 20,00 € Add. set
No. 261	Autoimmune diseases VI	(Seelig / Blüthner)
- 6 samples, serum -		
Antibodies against Tyrosine phosphatase (IA2A)	Islet cell antibodies (ICA) Glutamic acid decarboxylase (GAD) Insulin (IAA)	
		98,00 € /Survey 50,00 € Add. set
No. 263	Autoimmune diseases VII	(Seelig / Blüthner)
- 2 samples, serum -		
Antibodies against	Adrenal cortex	p450c21-hydroxylase p450c17-hydroxylase p450scc-hydroxylase
		41,00 € /Survey 20,00 € Add. set
No. 265	Autoimmune diseases VIII	(Seelig / Blüthner)
- 2 samples, serum -		
Antibodies against onconeural antigens Ri/Nova 1 Ma-1	Neuronuclear antibodies (CDR62/Yo) Purkinje cells Ma-2/Ta	Hu-D Amphiphysine I
		41,00 € /Survey 20,00 € Add. set
No. 267	Autoimmune diseases IX	(Seelig / Blüthner)
- 2 samples, serum -		
Antibodies against gangliosides	myelin associated glycoprotein (MAG)	
		41,00 € /Survey 20,00 € Add. set
No. 269	Autoimmune diseases X	(Seelig / Blüthner)
- 2 samples, serum -		
Myasthenia gravis		
Antibodies against acetylcholine receptor	striated muscle	titin
		41,00 € /Survey 20,00 € Add. set
No. 271	Autoimmune diseases XI	(Seelig / Stern / Blüthner)
- 2 samples, serum -		
Antibodies against gliadin, endomysium (anti-endomysium-IgA) and tissue transglutaminase		
		41,00 € /Survey 20,00 € Add. set
No. 273	Autoimmune diseases XII	(Seelig / Blüthner)
- 2 samples, serum -		
Antibodies against cyclic citrullinated peptide (CCP)	Rheumatoid factor	
		41,00 € /Survey 20,00 € Add. set
No. 275	Autoimmune diseases XIII	(Seelig / Blüthner / Spannagl)
- 2 samples, serum -		
Antibodies against cardiolipin IgG, cardiolipin IgM, beta2-glycoprotein IgG, beta2-glycoprotein IgM		
		41,00 € /Survey 20,00 € Add. set
No. 532	Bacterial genome detection - Bordetella pertussis	(Reischl / Linde / Wolf)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		
		133,00 € /Survey 123,00 € Add. set
No. 535	Bacterial genome detection - Borrelia burgdorferi	(Reischl / Linde / Wolf)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		
		133,00 € /Survey 123,00 € Add. set

No. 540	Bacterial genome detection - Chlamydia pneumoniae	(Reischl / Maaß)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		133,00 € /Survey
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		123,00 € Add. set
No. 531	Bacterial genome detection - Chlamydia trachomatis	(Reischl / Straube)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		133,00 € /Survey
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		123,00 € Add. set
No. 530	Bacterial genome detection - Chlamydia trachomatis & Neisseria gonorrhoeae	(Reischl / Straube)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		148,00 € /Survey
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		123,00 € Add. set
No. 534	Bacterial genome detection - EHEC / STEC	(Reischl / Linde / Wolf)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		133,00 € /Survey
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		123,00 € Add. set
No. 533	Bacterial genome detection - Helicobacter pylori	(Reischl / Linde / Wolf)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		133,00 € /Survey
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		123,00 € Add. set
No. 536	Bacterial genome detection - Legionella pneumophila	(Reischl / Linde / Wolf)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		133,00 € /Survey
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		123,00 € Add. set
No. 538	Bacterial genome detection - Listeria ssp.	(Reischl / Linde / Wolf)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		133,00 € /Survey
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		123,00 € Add. set
No. 539	Bacterial genome detection - MRSA resp. cMRSA	(Reischl / Linde / Wolf)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		133,00 € /Survey
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		123,00 € Add. set
No. 541	Bacterial genome detection - Mycoplasma pneumoniae	(Reischl / Linde / Jacobs)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		133,00 € /Survey
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		123,00 € Add. set
No. 537	Bacterial genome detection - Salmonella enterica	(Reischl / Linde / Wolf)
- 1 set = 4 samples à 0,3 mL, lyophil. samples -		133,00 € /Survey
Polymerase Chain Reaction (PCR) and other procedures for detection of specific DNA		123,00 € Add. set
No. 411	Bacteriology B	(Suerbaum / Ziesing)
- 3 samples (dried) -		60,00 € /Survey
Bacterial identification and susceptibility tests (3 cultures)		34,00 € Add. set
<u>A letter will only be sent in advance should the panel of antibiotics to be tested be changed:</u>		
Trimethoprim/Sulfamethoxazol (1,25 µg/23,75 µg)	Ampicillin (10 µg)	Oxacillin (5 µg)
Tetracyclin (30 µg)	Cefazolin (30 µg)	Gentamicin (10 µg)
		Penicillin G 10 I.E. (6 µg)
		Ciprofloxacin (5 µg)

No. 412	Bacteriology A	(Suerbaum / Ziesing)
- 5 samples (lyophilized) -		80,00 € /Survey
Bacterial identification and susceptibility tests (5 cultures)		46,00 € Add. set
<u>A letter will only be sent in advance should the panel of antibiotics to be tested be changed:</u>		
Trimethoprim/Sulfamethoxazol (1,25 µg/23,75 µg)	Ampicillin (10 µg)	Piperacillin (30 µg)
Tetracyclin (30 µg)	Cefazolin (30 µg)	Ceftazidim (10 µg)
		Gentamicin (10 µg)
		Ciprofloxacin (5 µg)
No. 317	Infection serology - Bordetella pertussis antibodies	(Hunfeld / Brade)
- 2 samples à 200 µL, serum - (Order for additional sets is not possible!)		54,00 € /Survey
Antibodies against Bordetella pertussis		
No. 332	Infection serology - Borrelia burgdorferi antibodies	(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)		54,00 € /Survey
Antibodies against borrelia		
No. 319	Infection serology - Campylobacter antibodies	(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)		49,00 € /Survey
Antibodies against campylobacter		
No. 314	Infection serology - Chlamydia (Chlamydophila) pneumoniae antibodies	(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)		54,00 € /Survey
Antibodies against Chlamydia pneumoniae		
No. 312	Infection serology - Chlamydia trachomatis antibodies	(Hunfeld / Brade)
- 2 samples à 200 µL, serum - (Order for additional sets is not possible!)		49,00 € /Survey
Antibodies against Chlamydia trachomatis		
No. 316	Infection serology - C. trachomatis direct detection (dir. IFA)	(Hunfeld / Brade)
- 2 slides - (Order for additional sets is not possible!)		39,00 € /Survey
Direct detection of Chlamydia trachomatis antigen (dir. IFA)		
No. 313	Infection serology - C. trachom.direct detection (Ag-ELISA, PACE2 CT Assay)	(Hunfeld / Brade)
- 2 spiked samples à 200 µL - (Order for additional sets is not possible!)		39,00 € /Survey
Direct detection of Chlamydia trachomatis antigen (ELISA, PCR)		
No. 325	Infection serology - Coxiella burnetii antibodies	(Hunfeld / Brade)
- 2 samples à 300 µL, serum - (Order for additional sets is not possible!)		54,00 € /Survey
Antibodies against Coxiella burnetii		
No. 322	Infection serology - C-reactive protein	(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)		29,00 € /Survey
Detection of C-reactive protein (CRP)		
No. 318	Infection serology - Diphtheria toxoid antibodies	(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)		39,00 € /Survey
Antibodies against diphtheria toxoid		

No. 334	Infection serology - Helicobacter pylori antibodies			(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)				
Antibodies against Helicobacter pylori				54,00 € /Survey
No. 324	Infection serology - Mycoplasma pneumoniae antibodies			(Hunfeld / Brade)
- 2 samples à 300 µL, serum - (Order for additional sets is not possible!)				
Antibodies against mycoplasma pneumoniae				54,00 € /Survey
No. 320	Infection serology - Procalcitonin			(Hunfeld / Brade)
- 2 samples à 200 µL, serum - (Order for additional sets is not possible!)				
Detection of procalcitonin				39,00 € /Survey
No. 323	Infection serology - Rheumatoid factor			(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)				
Detection of rheumatoid factor (RF)				34,00 € /Survey
No. 331	Infection serology - Salmonella antibodies			(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)				
Antibodies against salmonella				49,00 € /Survey
No. 321	Infection serology - Antistreptococcal antibodies (ASL, DNase)			(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)				
Antibodies against streptococcal antigens				49,00 € /Survey
No. 310	Infection serology - Tetanus toxoid antibodies			(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)				
Antibodies against tetanus toxoid				39,00 € /Survey
No. 311	Infection serology - Treponema pallidum antibodies			(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)				
Antibodies against Treponema pallidum				54,00 € /Survey
No. 315	Infection serology - Yersinia antibodies			(Hunfeld / Brade)
- 2 samples à 400 µL, serum - (Order for additional sets is not possible!)				
Antibodies against yersinia				49,00 € /Survey
No. 185	Biogene amines in plasma			(Wood / Reinauer)
- 2 samples plasma -				
Epinephrine	Dopamine	Norepinephrine	Serotonin	40,00 € /Survey 18,00 € Add. set
No. 161	Blood gas analysis			(Reinauer / Luppá)
- 2 samples à 2,5 mL, special samples -				
ionized calcium (dir. potentiometry) Glucose	Chloride Potassium Lactate	Sodium pH	pCO2 pO2	36,00 € /Survey 18,00 € Add. set
No. 162	Blood gas analysis / haemoglobin			(Heller / Schlatterer-Krauter)
- 2 samples -				
Haemoglobin, total	Fraction O2Hb	Fraction COHb	Fraction Methb	32,00 € /Survey 15,00 € Add. set

No. 750	Carbohydrate deficient transferrin (CDT)	(Wood / Reinauer)
- 2 samples serum, lyophilized -		44,00 € /Survey
CDT (Carbohydrate deficient transferrin)		
No. 760	Myocardial markers	(Baum / Reinauer)
- 2 samples à 2 mL serum/plasma (lyophilized) -		58,00 € /Survey
CK-MB (activity or mass)	NT-pro BNP (N-terminal proBNP)	35,00 € Add. set
Myoglobin	Troponin I Troponin T	
No. 761 BNP	BNP (B-type natriuretic peptide)	
Order only possible with No. 760!		
No. 176	Narcotic drugs in human urine (qualit.+quant.)	(Reinauer / Hermsen)
- 2 samples à 10 mL urine (lyophilized) -		35,00 € /Survey
Qualitative		21,00 € Add. set
Amphetamine	Benzodizepine-Lorazepam LSD	Methamphetamine
Barbiturate-Phenobarbital	Buprenorphin MDMA	Morphine (free base)
Benzoylcegonin	EDDP Methadon	Opiate (total) Delta-9-THC-COOH
Quantitative:		
Amphetamine	Benzodizepine-Lorazepam LSD	Methamphetamine
Barbiturate-Phenobarbital	Buprenorphin MDMA	Morphine
Benzoylcegonin	EDDP Methadon	Delta-9-THC-COOH
No. 141	Serum proteins/electrophoresis	(Reinauer / Hermsen)
- 2 samples à 5 mL serum (lyophilized) -		21,00 € /Survey
Albumin	Total protein Serum proteins (electrophoresis)	13,00 € Add. set
No. 700	Ethanol	(Reinauer / Falck)
- 2 samples à 2 mL, serum respectively plasma -		31,00 € /Survey
Ethanol		16,00 € Add. set
No. 236	Haemoglobin (free)	(Wood / Heuck)
- 2 samples erythrocytes preparation (lyophilized) -		31,00 € /Survey
Haemoglobin (free)		16,00 € Add. set
No. 243	Gammopathies	(Reinauer / Niederau)
- 2 samples à 1 mL, plasma -		39,00 € /Survey
Monoclonal and biclonal gammopathies		18,00 € Add. set
No. 111	Glucose - wet chemistry	(Reinauer / Niederau)
- 2 samples à 5 mL serum (lyophilized) -		26,00 € /Survey
Glucose		13,00 € Add. set
No. 145	Glycated proteins I	(Niederau / Reinauer)
- 2 samples haemolysate (lyophilized) -		41,00 € /Survey
HbA1	HbA1c	25,00 € Add. set
No. 146	Glycated proteins II	(Niederau / Reinauer)
- 2 samples serum (lyophilized) -		15,00 € /Survey
Fructosamine		10,00 € Add. set

No. 147	Glycated proteins III (NycoCard systems)	(Niederau / Reinauer)
- 2 samples stabilized whole blood preparation -		64,00 € /Survey
HbA1c		
No. 148	Glycated proteins IV (Afinion systems)	(Niederau / Reinauer)
- 2 samples stabilized whole blood preparation -		29,00 € /Survey
HbA1c		18,00 € Add. set
No. 212	Haematology - Blood smear analysis	(Diem / Baurmann)
- 2 specimen, blood smears for microscopy -		55,00 € 211 + 212
		34,00 € Add. set
Blood cell differentiation in %, morphology of erythrocytes, leucocytes, platelets · probable diagnosis		
Hämatologischer Mikroskopierkurs "Wie sicher ist Ihre Diagnose". Kloster Benediktbeuern bei München. <u>27.08.-29.08.2010</u> . Kosten (incl. Einzelmikroskop / Verpflegung / Übernachtungen) ca. € 300.- Anmeldung über die verschickte Einladung Frühjahr 2010 (german language). Organisation: Diem. Referenten noch nicht festgelegt.		
Hämatologischer Mikroskopierkurs "MADE by yourself". Kloster Benediktbeuern bei München. <u>03.09.-05.09.2010</u> . Kosten (incl. Einzelmikroskop / Verpflegung / Übernachtungen / Präparate zum mitnehmen) ca. € 330.- Anmeldung über die verschickte Einladung Frühjahr 2010 (german language). Organisation: Diem. Referenten noch nicht festgelegt.		
No. 612	Haematology - Differential blood count (automatic)	(Heller / Schlatterer-Krauter)
- 2 samples fresh whole blood from blood-bank, overnight shipping -		55,00 € /Survey
Blood cell count + automatic differential blood count		34,00 € Add. set
Haemoglobin	RBC (erythrocytes) MCV	WBC (leucocytes)
Platelet count	Haematocrit	
<u>Differential blood cell count:</u>	Neutrophilic granulocytes	Lymphocytes
Monocytes	Eosinophil Basophil	
No. 811	Haematology - Haemoglobin, AHD method	(Heller / Schlatterer-Krauter)
- 2 samples à 1,5 mL -		25,00 € /Survey
Haemoglobin (total)		13,00 € Add. set
No. 210	Haematology - Haemoglobinopathies	(Frömmel / Huber / Brunner)
- 2 samples whole blood -		35,00 € /Survey
Evaluation and diagnosis		20,00 € Add. set
No. 213	Haematology - Immunophenotyping I	(Kuling / Schabath)
- 2 samples, control blood -		95,00 € /Survey
Lymphocyte-immunophenotyping (T-, B-lymphocytes, NK cells, CD4, CD8 cells)		60,00 € Add. set
No. 214	Haematology - Immunophenotyping II	(Schabath / Kuling)
Sample I: bone marrow / blood smears + leukaemia / lymphoma cells		110,00 € /Survey
Sample II: bone marrow / blood smears + list mode dates (disc) -		50,00 € Add. set
Immunophenotyping of leukamias/lymphomas		
No. 617	Haematology - Immunophenotyping III (T-, B-, NK-cells)	(Humpe / Gutensohn)
- 2 samples, human blood -		95,00 € /Survey
For flow cytometric determination of T-, B- and NK-cells in cellular products		60,00 € Add. set
No. 211	Haematology - Blood cell count	(Heller / Schlatterer-Krauter)
- 2 specimen à 2 mL, stabilized control blood -		41,00 € /Survey
		24,00 € Add. set
Haemoglobin*	RBC (erythrocytes) MCV	WBC (leucocytes)
Platelet count	Haematocrit (packed cell volume by centrifugation or electronic counter)	

No. 209	Haematology - Blood cell count - QBC system	(Heller / Schlatterer-Krauter)
- 2 samples control blood -		
Haemoglobin - QBC	Haematocrit - QBC	WBC (leucocytes) - QBC Platelet count - QBC
		39,50 € /Survey 24,00 € Add. set
No. 218	Haematology - Bone marrow cytology	(Diem / Baurmann)
- 2 peripheral blood smears, 2 micro slides bone marrow aspirate (crushing preparation)- Evaluation and diagnosis		
		90,00 € /Survey 40,00 € Add. set
No. 215	Haematology - Reticulocyte analysis I (microscopy)	(Nebe / Gutensohn)
- 2 blood smears for microscopic analysis -		
		65,00 € /Survey
No. 216	Haematology - Reticulocyte analysis II (automatic analysis)	(Nebe / Gutensohn)
- 2 samples for automated reticulocyte counting by cell analysers -		
		80,00 € /Survey 55,00 € Add. set
No. 217	Haematology - Stem- and Progenitor cells (CD 34)	(Gutensohn / Humpe)
- 2 samples, human blood - For flow cytometric determination of CD34+ stem and progenitor cells		
		95,00 € /Survey 60,00 € Add. set
No. 221	Haemostasis I (TPZ, INR, aPTT)	(Spannagl / Dick)
- 2 samples à 1 mL resp. 0,5 mL plasma (lyophilized) - maximum order: 2 sets of samples		
Global test I: PT (TPZ), aPTT	Prothrombin time	Activated partial thromboplastin time
		41,00 € /Survey 17,00 € Add. set
No. 222	Haemostasis II (FIB, TZ, FSP)	(Spannagl / Dick)
- 2 samples à 1 mL plasma (lyophilized) - maximum order: 2 sets of samples		
Global test II: TZ, FIB, FDP screening	Thrombin time	Fibrinogen
		43,00 € /Survey 17,00 € Add. set
FDP screening, using batroxobin time or heparin independent thrombin time		
No. 223	Haemostasis III (F. II, V, VII,X)	(Spannagl / Dick)
- 2 samples à 1 mL (resp. 0,5 mL) plasma, lyophil. material) - maximum order: 2 sets of samples		
Single factors A (via PT):		48,00 € /Survey 17,00 € Add. set
No. 224	Haemostasis IV (F. IX, XI, XII, XIII)	(Spannagl / Dick)
- 2 samples à 1 mL (resp. 0,5 mL) plasma, lyophil. material - maximum order: 2 sets of samples		
Single factors B (via APTT etc.):		48,00 € /Survey 17,00 € Add. set
No. 225	Haemostasis V (AT, Prot.-C, -S, C1-Inh.)	(Spannagl / Dick)
- 2 samples à 1 mL (resp. 0,5 mL) plasma, lyophil. material - maximum order: 2 sets of samples		
Inhibitores (AT, PC, PS)	Antithrombin	C1-Inhibitor
	Protein C	Protein S
		40,00 € /Survey 16,00 € Add. set
No. 226	Haemostasis VI (D-Dimer)	(Spannagl / Peetz)
- 2 samples à 0,5 mL plasma (lyophilized) - maximum order: 2 sets of samples		
D-Dimer (DD)	Detection of D-Dimer (quantitative)	30,00 € /Survey 16,00 € Add. set
No. 227	Haemostasis VII (F. VIII, WF)	(Spannagl / Dick)
- 2 samples à 1 mL (resp. 0,5 mL) plasma, lyophil. material) - maximum order: 2 sets of samples		
F. VIII / WF	F. VIII, WF Ag, WF RiCof, WF CBA	40,00 € /Survey 16,00 € Add. set

No. 228	Haemostasis VIII (Lupus anticoagulant)	(Spannagl / Dick)
- 1 sample plasma - Lupus anticoagulant Samples and evaluation from ECAT, Leiden, Netherlands.		115,00 € /per year! Add. set is not possible
No. 229	Haemostasis IX (Hirudin)	(Peetz / Spannagl)
- 2 samples à 1 mL plasma (lyophilized) - maximum order: 2 sets of samples Hirudin		21,00 € /Survey 10,00 € Add. set
No. 230	Haemostasis X (Argatroban)	(Peetz / Spannagl)
- 2 samples à 1 mL plasma (lyophilized) - maximum order: 2 sets of samples Argatroban		21,00 € /Survey 10,00 € Add. set
No. 220	Haemostasis XI (F VIII-Inhibitor)	(Spannagl / Dick)
- 1 sample plasma - F VIII-Inhibitor Samples and evaluation from ECAT, Leiden, Netherlands.		115,00 € /per year! Add. set is not possible
No. 280	Haemostasis XII (UF Heparin)	(Peetz / Spannagl)
- 2 samples à 1 mL plasma (lyophilized) - maximum order: 2 sets of samples Unfractionated heparin		21,00 € /Survey 10,00 € Add. set
No. 281	Haemostasis XIII (NM Heparin)	(Peetz / Spannagl)
- 2 samples à 1 mL plasma (lyophilized) - maximum order: 2 sets of samples Low mol. weight heparin		21,00 € /Survey 10,00 € Add. set
No. 282	Haemostasis XIV (Orgaran)	(Peetz / Spannagl)
- 2 samples à 1 mL plasma (lyophilized) - maximum order: 2 sets of samples Orgaran		21,00 € /Survey 10,00 € Add. set
No. 283	Haemostasis XV (TEG/ROTEM)	(Spannagl / Dick)
- 2 samples à 2 mL plasma (lyophilized) - maximum order: 2 sets of samples TEG/ROTEM		41,00 € /Survey 17,00 € Add. set
No. 284	Haemostasis VI - Molecular genetics	(Geisen / Spannagl / Flörke)
- 2 samples each, à 0,5 ml human blood - (Order for additional sets is not possible!) VKORC1 CYP2C9		25,00 € /Survey
No. 285	Haemostasis XVII - Compact	(Spannagl / Dick)
- 2 samples à 1 mL plasma (lyophilized) - maximum order: 2 sets of samples Antithrombin D-Dimer Fibrinogen Thrombin time Prothrombin time Activated partial thromboplastin time		75,00 € /Survey 28,00 € Add. set
No. 286	Haemostasis XVIII - POCT	(Spannagl / Dick)
- 2 samples whole blood or lyophilized material - INR Quick % PTT ACT Due to different detection techniques applied not every sample material can be guaranteed as suitable for every POCT machine.		24,00 € /Survey 15,00 € Add. set
No. 287	Haemostasis XIX - HIT II antibodies	(Spannagl / Kiefel)
- 1 sample plasma/serum - Samples and evaluation from ECAT, Leiden, Netherlands.		115,00 € /per year! Add. set is not possible

No. 500	Urinary stone analyses	(Rebentisch / Wolter)
- 2 samples pulverized material -		31,00 € /Survey 18,00 € Add. set
No. 301	Hormones - Ca-metabolism/special thyroid	(Wood / Scherbaum)
- 2 samples à 3 mL serum (lyophilized) -		35,00 € /Survey
Calcitonin	1-84 PTH Thyreoglobulin	20,00 € Add. set
No. 305	Hormones - Fertility - 1. trimester screening	(Maly / Wood)
- 2 samples serum/plasma -		83,00 € /Survey
β -hCG free	PAPP A	45,00 € Add. set
No. 306	Hormones - Fertility - 2. trimester screening	(Maly / Wood)
- 2 samples serum/plasma -		56,00 € /Survey
AFP	β -hCG unconjugated E3	41,00 € Add. set
No. 297	Hormones - Fertility analytes (general)	(Wood / Maly)
- 2 samples à 3 mL serum/plasma (lyophilized) -		28,50 € /Survey
AFP	Total-oestriol hCG (total) + β -hCG FSH	20,00 € Add. set
Oestriol (free)	hCG (total) free β -chain hCG LH	
No. 307	Hormones - Fertility analytes	(Reinauer / Wood)
- 2 samples à 5 mL serum (lyophilized) -		25,00 € /Survey
17- β -estradiol	Progesterone Testosterone (total)	13,00 € Add. set
No. 298	Hormones - Adrenal gland/pituitary	(Wood / Reinauer)
- 2 samples, 3 or 5 mL serum/plasma (lyophilized) -		28,50 € /Survey
1-39 ACTH	DHEA DHEA-S HGH Prolactin	20,00 € Add. set
No. 300	Hormones - Pancreas/gastrointestinal tract	(Reinauer / Scherbaum)
- 2 samples à 5 mL serum/plasma (lyophilized) -		28,50 € /Survey
C-peptide	Gastrin Glucagon	20,00 € Add. set
Insulin	Proinsulin	
No. 294	Hormones - Thyroid hormones	(Reinauer / Scherbaum)
- 2 samples à 5 mL serum/plasma (lyophilized) -		31,00 € /Survey
T3	TSH T4 (free) T3U	18,00 € Add. set
T4	T3 (free) TBG T-Uptake	
No. 295	Hormones - Thyroid gland antibodies	(Scherbaum / Reinauer)
- 2 samples à 1 mL serum/plasma (lyophilized) -		30,00 € /Survey
Anti-microsomal	Anti-thyreoglobulin Anti-TPO TSI/TSAB (TRAK/THYBIA)	20,00 € Add. set
No. 302	Hormones - Steroid hormones, thyroid hormones	(Reinauer / Scherbaum)
- 2 samples à 5 mL serum (lyophilized) -		46,00 € /Survey
Aldosterone	Progesterone T4	23,00 € Add. set
Cortisol	Testosterone (total) T3 (free)	
17- β -estradiol	T3 T4 (free)	
No. 309	Hormones - Virilization	(Maly / Wood)
- 2 samples serum/plasma -		56,00 € /Survey
17-hydroxy progesterone	Androstendion	41,00 € Add. set

No. 440	Immunogenetics / HLA	(Heinemann / Schönemann)
- 5 blood samples - (Order for additional sets is not possible!)		
Determination of HLA-B27		49,00 € /Survey
No. 441	Immunogenetics / HLA	(Heinemann / Schönemann)
- 5 blood samples - (Order for additional sets is not possible!)		
Serological typing of HLA class I (HLA A, B) (441-1) and/or HLA class II (HLA-DR, DQ) (441-2)		
No. 442	Immunogenetics / HLA	(Heinemann / Schönemann)
- 5 blood samples - (Order for additional sets is not possible!)		
DNA typing of HLA class II: Generic HLA-DRB typing (442-1), generic HLA-DQB1 typing (442-4), high resolution HLA-DRB1, DQB1 typing (442-2), HLA-DRB1 DNA typing to determine the "Shared Epitope" (442-3)		79,00 € /Survey
No. 443	Immunogenetics / HLA	(Heinemann / Schönemann)
- 5 blood samples / survey, 1 serum set (28 sera) / year- (Order for additional sets is not possible!)		
only on block with No. 441 in April and/or July HLA crossmatching (lymphocytotoxic crossmatching)		100,00 €
No. 444	Immunogenetics / HLA	(Heinemann / Schönemann)
- 5 samples (buffy coat) - (Order for additional sets is not possible!)		
DNA typing of HLA class I: Optional generic HLA A, B typing (444-1), HLA A, B high resolution typing (444-2), generic HLA-C typing (444-3), HLA-C high resolution typing (444-4), HLA-B*5701 determination (444-5)		110,00 € /Survey
No. 445	Immunogenetics / HLA	(Heinemann / Schönemann)
- 5 serum samples - (Order for additional sets is not possible!)		
HLA-antibody screening (presence/absence of HLA antibodies, HLA antibody specification)		140,00 € /Survey
No. 231	Immunohaematology I	(Wagner / Geisen)
- 2 sets of samples: 1 set = 1 x 5 mL serum/1 x 5 mL erythrocytes suspension -		
A B 0 grouping	Rh-typing	Coombs testing (dir.)
Rh-factor D	Antibody-screening	Kell antigen
		52,00 € /Survey
		36,00 € Add. set
No. 232	Immunohaematology II	(Wagner / Geisen)
- 2 sets of samples: 1 set = 2 x 5 mL serum/1 x 5 mL erythrocytes suspension -		
Same as No. 231, additior Antibody identification and quantitation		69,00 € /Survey
		49,00 € Add. set
No. 233	Immunohaematology III - Platelet immunology	(Bux / Kiefel / Kroll)
- 2 samples serum / plasma, 2 samples DNA, 2 samples platelet suspension -		
Platelet antibodies		Platelet antigens
		60,00 € /Survey
<u>Certification requires passing of both parts of the quality exercise</u>		
Please note the different deadline: handling time 3-4 weeks		
No. 234	Immunohaematology IV - Granulocyte immunology (HNA antibodies and antigenes)	(Bux / Kiefel / Kroll)
- 2 samples plasma, 2 samples DNA -		
HNA-/Granulocyte antibodies		HNA-/Granulocyte (neutrophil) antigenes
		60,00 € /Survey
<u>Certification requires passing of both parts of the quality exercise</u>		
Please note the different deadline: handling time 3-4 weeks		

No. 237 Immunohaematology V (automatic) (Wagner / Geisen)

- 2 samples, whole blood (haematocrit 30%) - 105,00 € /Survey
 75,00 € Add. set
 A B 0 grouping Rh-typing Coombs testing (dir.)
 Rh-factor D Antibody-screening Kell antigen Antibody identification and quantitation is optional

No. 235 Immunohaematology VI (Molecular diagnostic) (Bein / Flegel)

- 4 DNA samples - 30,00 € /Survey
 Red cells: AB0, RHD, RHD deletion, RHCE, KEL, FY, JK, MNS Platelets: HPA-1, -2, -3, -5, 15
 Neutrophils: HNA-1a, -1b, -1c; HNA-4

No. 241 Immunology-plasmaproteins (Reinauer / Spannagl)

- 2 samples à 1 mL, plasma - 46,00 € /Survey
 36,00 € Add. set
 alpha1-antitrypsin Coeruloplasmin Haptoglobin **Transferrin**
 alpha1-glycoprotein **CRP** (auch hsCRP) **IgA** soluble transferrin receptor (sTfR)
 alpha2-macroglobulin Cystatin C **IgG**
 C3-complement **Ferritin** **IgM**
 C4-complement Hemopexin **IgE**

No. 601 Immunosuppressive drugs (Ceglarek / Kaiser)

- 3 samples whole blood - 55,00 € /Survey
 30,00 € Add. set
 Cyclosporin A Tacrolimus Sirolimus Everolimus

No. 102 Capillary zone electrophoresis (Reinauer / Hermsen)

- 2 samples serum (liquid) - 17,00 € /Survey
 Serum proteins (electrophoresis)

No. 100 Clinical Chemistry - conventional analysis (Reinauer / Niederau)

- 2 samples à 5 mL serum (lyophilized) - 34,00 € /Survey*
 16,00 € Add. set
Albumin **Cholesterol** GLDH **Potassium**
 Aldolase Cholinesterase **Glucose** **Creatinine** **Sodium**
AP **CK** **GOT (AST)** Copper Osmolality
 alpha-amylase Iron-binding capacity **GPT (ALT)** **Lactate** Pancreas amylase
 alpha-HBDH Iron **Uric acid** LAP **Phosphate**
Bilirubin (total) Protein fractions **Urea** **LDH** Prostatic acid phosphatase
 Bilirubin (conjuc./direct) **Total protein** **IgA** **Lipase** **Transferrin**
Calcium Acid phosphatase **IgG** **Lithium** **Triglycerides**
Chloride **GGT** **IgM** **Magnesium**

Eval. up to 10 pairs of analyt.results Eval. 11-16 pairs of analyt.results Eval. 17-24 pairs of analyt.results Eval. more than 25 p. of analyt.results
 36,00 € 41,00 € 44,00 €

No. 151 Lipids/lipoproteins (Reinauer / Kuschak / Hermsen)

- 2 samples serum/plasma (lyophilized) - 40,00 € /Survey
 25,00 € Add. set
 Apolipoproteins HDL-cholesterol Lp (a) **Triglycerides**
Cholesterol LDL-cholesterol Phospholipids

No. 460 Cerebrospinal fluid analysis I+II (Reiber / Zimmermann)

- 2 sets = CSF + serum - (Order for additional sets is not possible!) 46,00 € /Survey
Albumin **IgA, IgG, IgM** (CSF/serum quotients and interpretation)
Total protein

No. 462 Cerebrospinal fluid analysis III (Reiber / Zimmermann)

- 1 set of samples, CSF + serum - (Order for additional sets is not possible!) 25,00 € /Survey
 Oligoclonal IgG

No. 463 Cerebrospinal fluid analysis IV (Reiber / Zimmermann)

- 1 set of samples, CSF + serum - (Order for additional sets is not possible!) 38,00 € /Survey
Analysis of virus specific antibodies (IgG class) in CSF and serum for detection of specific antibody response in central nervous system.
Antibodies against measles-, rubella, varicella-zoster- and herpes simplex-viruses.
Detection of titers is not precise enough.

No. 464 Cerebrospinal fluid analysis V (Reiber / Zimmermann)

- 2 samples à 5 mL - (Order for additional sets is not possible!) 28,00 € /Survey
Glucose Lactate 19 €/RV in combination with No. 460, 462 or 463!

No. 465 Cerebrospinal fluid analysis VI (Reiber / Zimmermann)

- 1 set of samples, CSF + serum - (Order for additional sets is not possible!) 55,00 € /Survey
Analysis of borrelia antibodies (IgG class) in CSF and serum for detection of specific antibody response in central nervous system.
Detection of titers is not precise enough.

No. 470 Cerebrospinal fluid cytology course (Kühn / Haustein)

- No distribution of samples! Training course and test at the universities Ulm (July 17, 2010) and Dresden (Oct. 08, 2010) -
We will send you detailed informations after registration. The course is held in German language.
Deadline of registration: June 15, 2010 (Ulm), Aug. 10, 2010 (Dresden)

No. 730 - 735 Molecular genetics I (Flörke / Kappert)

- 2 samples each, 0,5 ml human blood - (Order for additional sets is not possible!) 25,00 € /Survey
No. 730 Factor V-Leiden-Mutation No. 733 HFE H63D, C282Y (optional: S65C) Set total: 100,00 €
No. 731 Prothrombin 20210 No. 734 Apolipoprotein E (E2, E3, E4)
No. 732 MTHFR C677T (optional: A1298C) No. 735 PAI-1 (4G/5G)

No. 738 - 749,790 - 793 Molecular genetics II (Flörke / Kappert)

- 3 samples each , DNA (in water) isolated from human leukocytes - 16,00 € /Survey
Set 1 **Set 2** Add. set by request
Coagulation Enzyme inhibitors **Set 1 total: 75,00 €**
No. 740 Factor V-Leiden-Mutation No. 743 alpha1-antitrypsin (PiM, PiS, PiZ) **Set 2 total: 60,00 €**
No. 749 Fibrinogen receptor HPA 1a/1b Haemochromatosis
No. 739 Collagen receptor C807T No. 741 HFE (H63D, C282Y)
Nr. 747 MTHFR C677T Lipoproteins
No. 748 PAI-1 4G/5G No. 744 Apolipoprotein E (E2, E3, E4)
No. 746 Prothrombin 20210 M. Wilson
No. 790 Protein C No. 745 Copper binding protein: ATP7B (H1069Q)
No. 791 Protein S Hyperbilirubinaemie
No. 792 Antithrombin (AT3; SERPINC1) No. 742 UDP-glucuronyltransferase1 (TATA-box)
Multiple endocrine neoplasia type 2A (MEN2A)
No. 738 Ret proto-oncogene, exons 10-16
Hereditary fructose intolerance
No. 793 Aldolase B (A149P, A174D, N334K)

No. 770 - 777 Molecular genetics III - X (Maly / Fried)

- 8 sets of 3 samples each, lyophilized with 500 ng DNA per sample - Each set 65,00 € /Survey
45,00 € Add. set

No. 770 Set 1		No. 771 Set 2	
F XIII Val34Leu	Coagulation	HFE C282Y	Haemochromatosis
GPIA C807T	Coagulation	HFE H63D	Haemochromatosis
HPA-1 T393C	Coagulation	HFE S65C	Haemochromatosis
HPA-5 G1648A	Coagulation	ApoB 100 (R3500)	Lipoproteins
MTHFR A1298C	Coagulation	ApoE E2 E3 E4	Lipoproteins
β-Fibrinogen G-455A	Coagulation	a1-AT PiS	Enzyme inhibitors
F VII R353Q	Coagulation	a1-AT PiZ	Enzyme inhibitors
Angiotensinogen M235T	Circulatory system	COL1A1 SP1 G/T	Collagen (osteoporosis)
ACE Ins / Del	Circulatory system	VDR BsmI B/b	Vitamin D receptor (osteoporosis)

No. 772 Set 3

CFTR Delta F508	<i>Cystic fibrosis</i>
LCT T-13910C	<i>Lactose intolerance</i>
UGT1A6 A541G	<i>Pharmacogenetics</i>
BCHE atypical variation	<i>Pharmacogenetics</i>
BCHE K variation	<i>Pharmacogenetics</i>
GH-R del exon 3	<i>Pharmacogenetics</i>
B5701	<i>Pharmacogenetics, Abacavir hypersensitivity</i>
CYP2C9	<i>Pharmacogenetics, Coumarin sensitivity</i>

No. 773 Set 4

CYP21B	<i>21-Hydroxylase, AGS</i>
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No. 774 Set 5

NOD2 R702W	<i>Autoimmunity</i>
NOD2 G908R	<i>Autoimmunity</i>
NOD2 L1007fs insC	<i>Autoimmunity</i>
MHC B27	<i>Autoimmunity</i>
TNF α G-238A	<i>Autoimmunity</i>
TNF α G-308A	<i>Autoimmunity</i>

No. 775 Set 6

AMH Ile 49 Ser	<i>Pharmacogenetics</i>
AMHR2 A-482G	<i>Pharmacogenetics</i>
FSH receptor	<i>Pharmacogenetics</i>
VKORC1 G-1639A	<i>Pharmacogenetics</i>
PRNP M129V	<i>Nervoussystem</i>
Hemoglobin S	<i>Sickle cell disease</i>

No. 776 Set 7

K-ras Codon 12/13 Mutations	<i>Tumor Genetics</i>
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No. 777 Set 8

Cytochrome p450 2D6	<i>Pharmacogenetics</i>
Thiopurin-S-Methyltransferase	<i>Pharmacogenetics</i>

No. 490**Mycology I (yeasts)**

(Haase / Fegeler)

- 4 samples -

55,00 € /Survey
33,00 € Add. set

Differentiation of fungi (yeasts, yeast-like fungi, hyphomycetes) occurring as causative organism in case of mycosis of the mucosa, organs (deep-seated mycosis), systemic mycosis or in case of acquired mycosis after trauma.

No. 491**Mycology II (dermatophytes, ..)**

(Tietz / Nenoff)

- 4 samples, living cultures -

Differentiation of	Dermatophytes	Yeasts	Moulds	41,00 € /Survey
				31,00 € Add. set

Living strains of causative agents or contaminants were sent out, isolated from patients with skin mycoses or mucosal fungal infections.

No. 480**Mycoserology I**

(Zimmermann / Schröder)

- 2 samples, serum -

Candida antibodies	Candida antigen	34,00 € /Survey
		16,00 € Add. set

No. 481**Mycoserology II**

(Tintelnot / Seibold)

- 2 samples, serum -

Detection of cryptococcus neoformans antigen	34,00 € /Survey
	16,00 € Add. set

No. 110**Neonatal bilirubin**

(Reinauer / Wood)

- 2 samples serum à 2 mL (lyophilized) -

Bilirubin, total

31,00 € /Survey
18,00 € Add. set**No. 785****Neonatal Screening - Inborn errors of metabolism**

(Thiery / Ceglarek)

- 2 samples dried blood spots -

Amino acids	acyl carnitines	fatty acid oxidation disorders	31,00 € /Survey
			18,00 € Add. set

No. 456**Parasite diagnostic: Microscopic parasitology "blood"**(Tannich / Poppert)
(Hörauf / Reiter-Owona)

- 2 samples EDTA-blood or thin or thick blood film -

Microscopic parasitology "blood" in April and Oct.: Prof. Tannich, Hamburg;	39,00 € /Survey
in Febr. and Sept. Prof. Hörauf, Bonn	29,00 € Add. set

No. 451	Parasite diagnostic: Microscopic parasitology "stool"	(Tannich / Poppert)		
- 2 samples, fecal suspension or fecal smear -		39,00 € /Survey		
Microscopic parasitology "stool": Prof. Tannich, Hamburg		29,00 € Add. set		
No. 457	Parasite diagnostic: Detection of Toxoplasma DNA (PCR)	(Hörauf / Reiter-Owona)		
- stabilized EDTA-blood (or amnion fluid)		133,00 € /Survey		
No. 452	Parasite serology - Toxoplasmosis	(Hörauf / Reiter-Owona)		
- 2 samples variable volumes, serum -		39,00 € /Survey		
Toxoplasmosis		29,00 € Add. set		
No. 454	Parasite serology - Malaria and schistosomiasis	(Hörauf / Reiter-Owona)		
- 2 samples variable volumes, serum -		39,00 € /Survey		
Malaria and schistosomiasis		29,00 € Add. set		
No. 455	Parasite serology - Amebiasis and echinococcosis	(Hörauf / Reiter-Owona)		
- 2 samples variable volumes, serum -		39,00 € /Survey		
Amebiasis and echinococcosis		29,00 € Add. set		
No. 195	Therapeutic drug monitoring I	(Borner / Reinauer)		
- 2 samples à 5 mL serum (lyophilized) -		49,00 € /Survey		
		26,00 € Add. set		
Carbamazepine	Ethosuximide	Phenobarbital	Primidone	Valproic acid
Digoxin	Lithium*	Phenytoin	Theophylline	
	<u>* Please order No. 121 for Vitros systems!</u>			
No. 197	Therapeutic drug monitoring II	(Borner / Steimer)		
- 2 samples à 5 mL serum (lyophilized) -		41,00 € /Survey		
Amikacin	Gentamicin	Tobramycin		26,00 € Add. set
Digoxin	Methotrexate	Vancomycin		72,00 € 195 + 197
				52,00 € Add. set
No. 198	Therapeutic drug monitoring III	(Borner / Steimer)		
- 2 samples à 5 mL serum (lyophilized) -		31,00 € /Survey		
Amphotericin B	Chloramphenicol	Flucytosine	Netilmicin	21,00 € Add. set
No. 193	Therapeutic drug monitoring IV	(Borner / Steimer)		
- 2 samples à 2 mL serum (lyophilized) -		23,00 € /Survey		
Teicoplanin		18,00 € Add. set		
No. 194	Therapeutic drug monitoring V	(Borner / Steimer)		
- 2 samples à 2 mL serum (lyophilized) -		41,00 € /Survey		
Paracetamol	Salicylic acid			34,00 € Add. set
No. 190	Therapeutic drug monitoring VI	(Borner / Steimer)		
- 2 samples à 3 mL serum (lyophilized) -		31,00 € /Survey		
Amiodarone	Desethylamiodarone			21,00 € Add. set
No. 191	Therapeutic drug monitoring VII	(Borner / Steimer)		
- 2 samples à 3 mL serum (lyophilized) -		31,00 € /Survey		
Lamotrigine	Sulthiame	Levetiracetam		21,00 € Add. set

No. 192	Therapeutic drug monitoring VIII	(Borner / Steimer)		
- 2 samples à 3 mL serum (lyophilized) -		31,00 € /Survey		
10-OH-Carbamepine	Carbamazepine-epoxide N-Desmethylnormetazepam	21,00 € Add. set		
No. 199	TDM IX - Tricyclic antidepressants	(Steimer / Borner)		
- 2 samples à 5 mL serum (lyophilized) -		36,00 € /Survey		
Amitriptyline	Desipramine	Imipramine	Norclomipramine	25,00 € Add. set
Clomipramine	Doxepin	Nordoxepin	Nortriptyline	
No. 850	TDM X - Antiretrovirals I	(Kuschak / Kaiser)		
- 2 samples, 1 - 1,5 ml, serum -		77,00 € /Survey		
Efavirenz; Nevirapine; Amprenavir; Atazanavir; Indinavir; Ritonavir; Saquinavir; Lopinavir		40,00 € Add. set		
No. 851	TDM XI - Antiretrovirals II	(Kuschak / Kaiser)		
- 2 samples, 1 - 1,5 ml, serum -		52,00 € /Survey		
Darunavir (new)	Nelfinavir	40,00 € Add. set		
Tipranavir	Nelfinavir-M8-Metabolite	103,00 € 850 + 851		
		78,00 € Add. set		
No. 602	TDM XII - Antifungals / Immunosuppressive drugs	(Ceglarek / Kaiser)		
- 2 samples serum/plasma -		29,00 € /Survey		
Mycophenol acid	Itraconazol	Hydroxyitraconazol	18,00 € Add. set	
No. 200	TDM XIII - Antipsychotic drugs	(Borner / Steimer)		
- 2 samples à 2 mL serum (lyophilized) -		31,00 € /Survey		
Clozapine	Desmethylclozapine	21,00 € Add. set		
No. 181	Photometer controls	(Reinauer / Kaiser)		
- 2 samples potassium picrate solution -		23,00 € /Survey		
Wavelengths 334, 340, 365, 405 and 436 nm		13,00 € Add. set		
No. 860	Psychotherapeutic drugs I	(Haen / Hiemke)		
- 2 samples serum à 5 mL -		46,00 € /Survey		
10-OH-Carbacepine	Citalopram	O-Desmethylvenlafaxine	Quetiapine	26,00 € Add. set
Aripiprazol	Lamotrigine	Perazine	Venlafaxine	
No. 861	Psychotherapeutic drugs II	(Haen / Hiemke)		
- 2 samples serum à 5 mL -		46,00 € /Survey		
Amisulpride	Mirtazapine	Quetiapine	26,00 € Add. set	
Escitalopram	O-Desmethylvenlafaxine	Venlafaxine		
No. 862	Psychotherapeutic drugs III	(Haen / Hiemke)		
- 2 samples serum à 5 mL -		46,00 € /Survey		
Clozapine	Haloperidol	Risperidone	26,00 € Add. set	
Desmethylclozapine	Olanzapine	9-OH-Risperidone / Paliperidone		
Duloxetine	Quetiapine	Ziprasidone		
No. 863	Psychotherapeutic drugs IV	(Haen / Hiemke)		
- 2 samples serum à 5 mL -		46,00 € /Survey		
Amitriptyline	Desipramine	Imipramine	Nordoxepine	26,00 € Add. set
Clomipramine	Desmethylclozapine	Maprotiline	Nortriptyline	
Clozapine	Doxepine	Norclomipramine	Trimipramine	

No. 864 Psychotherapeutic drugs V (Haen / Hiemke)

- 2 samples serum à 5 mL - 44,00 € /Survey
 Donepezil Galantamine Rivastigmin 26,00 € Add. set

No. 205 Trace elements I (Muche / Bühling)

- 2 samples à 10 mL (lyophilized urine) - 77,00 € /Survey
 52,00 € Add. set

Aluminium	Chromium	Cadmium	Manganese	Selenium
Arsenic	Iron	Cobalt	Nickel	Zinc
Lead	Fluoride	Copper	Mercury (inorganic)	

No. 206 Trace elements II (Muche / Bühling)

- 2 samples à 5 mL (lyophilized serum/plasma) - 52,00 € /Survey
 26,00 € Add. set

Aluminium	Fluoride	Copper	Selenium
Arsenic	Gold	Manganese	Zinc
Chromium	Cadmium	Nickel	
Iron	Cobalt	Platinum	

103,00 € 205 + 206
 78,00 € Add. set

No. 207 Trace elements III (Muche / Bühling)

- 2 samples à 5 mL (lyophilized serum/plasma) - 31,00 € /Survey
 18,00 € Add. set

Antimony	Molybdenum	Bismuth
Beryllium	Vanadium	Tin

No. 208 Trace elements IV (Muche / Bühling)

- 2 samples whole blood - 31,00 € /Survey
 20,00 € Add. set

Antimony	Chromium	Manganese	Selenium
Arsenic	Cadmium	Nickel	Zinc
Lead	Cobalt	Mercury	

No. 120 Dry chemistry I: Reflotron systems (Wood / Nauck)

- 2 samples serum, plasma (lyophilized) - 32,00 € /Survey*
 18,00 € Add. set

Carrier bound reagents

alpha-amylase	CK	GPT (ALT)	Potassium
AP	GGT	Uric acid	Creatinine
Bilirubin (total)	Glucose	Urea	Pancreas amylase
Cholesterol	GOT (AST)	HDL-cholesterol	Triglycerides

*Eval. up to 10 p. of analyt. results
 32,00 €

Eval. more than 11 p. of analyt. results
 38,00 €

No. 118 Dry chemistry I: Ammonia - all systems (incl. No.117+801!) (Wood / Nauck)

- 2 samples control solutions - 15,00 € /Survey
 Carrier bound reagents: Ammonia 10,00 € Add. set

No. 121 Dry chemistry I: Vitros systems (Wood / Nauck)

- 2 samples serum, plasma (lyophilized) - 32,00 € /Survey*
 18,00 € Add. set

Carrier bound reagents

Albumin	Cholinesterase	GGT	Potassium	Sodium
alpha-amylase	Chloride	Glucose	Creatinine	Phosphate
AP	Cholesterol	GOT (AST)	Lactate	Triglycerides
Bilirubin, total	CK	GPT (ALT)	LDH	
Bilirubin (conj./direct)	CK-MB	Uric acid	Lipase	
Bilirubin (unconj./indir.)	Iron	Urea	Lithium	
Calcium	Protein (total)	HDL-cholesterol	Magnesium	

*Eval. up to 10 p. of analyt. results
 32,00 €

Eval. more than 11 p. of analyt. results
 38,00 €

No. 810 Dry chemistry II - POCT: Abaxis Piccolo system (Wood / Nauck)

- 2 samples serum, lyophilized -

32,00 € /Survey*
18,00 € Add. set

Albumin	Chloride	GOT (AST)	Creatinine	Phosphate
Amylase	Cholesterol	GPT (ALT)	Lactate	tCO2
AP	CK	Uric acid	LDH	Triglycerides
Bilirubin (total)	Total protein	Urea (BUN)	LDL-cholesterol	VLDL
Bilirubin (direct)	GGT	HDL-cholesterol	Magnesium	
Calcium	Glucose	Potassium	Sodium	

*Eval. up to 8 p. of analyt. results 32,00 € Eval. up to 16 p. of analyt. result 38,00 € Eval. more than 17 p. of analyt. results 42,00 €

No. 803 Dry chemistry II: POCT Chol / Tg (Wood / Nauck)

- 2 samples control solutions -

24,50 € /Survey
14,00 € Add. set

Cholesterol	HDL-cholesterol	LDL-cholesterol	Triglycerides
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No. 800 Dry chemistry II: POCT Glucose (Nauck / Wood)

- 2 samples plasma or whole blood -

24,50 € /Survey
14,00 € Add. set

Glucose

HaemoCue- and Lifescan systems are included! Variant shipment because of sending unprocessed whole blood.

No. 802 Dry chemistry II: POCT Lactate (Wood / Luppá)

- 2 samples control solutions -

24,50 € /Survey
14,00 € Add. set

Lactate

No. 421 Mycobacteriology I (Rüsch-Gerdes / Richter)

- 6 microscopic slides - (Order for additional sets is not possible!)

Detection of acid-fast bacilli 40,00 € /Survey

No. 422 Mycobacteriology II (Rüsch-Gerdes / Richter)

- 5 sputum specimens - (Order for additional sets is not possible!)

Detection of mycobacteria by culture and differentiation between TB and NTM 40,00 € /Survey

No. 425 Mycobacteriology V (Rüsch-Gerdes / Richter)

- 5 mycobacteria culture specimens - (Order for additional sets is not possible!)

Sensitivity testing 30,00 € /Survey

No. 423 Mycobacteriology III (Rüsch-Gerdes / Richter)

- 5 suspensions of mycobacterial strains - (Order for additional sets is not possible!)

Identification of mycobacteria; 5 cultures 32,00 € /Survey

No. 424 Mycobacteriology IV (Roth / Höck)

- 5 sputum specimens - (Order for additional sets is not possible!)

Detection of tubercle-bacilli by nucleic-acid amplification (e.g. PCR) 55,00 € /Survey*

* Mycobacteriology I + II 70,00 € Mycobacteriology I + II + V 90,00 € Mycobacteriology I + II + III + V 110,00 € Mycobacteriology I - IV 135,00 € Mycobacteriology I - V 140,00 €

No. 292 Tumormarkers (Reinauer / Niederau)

- 2 samples serum -

50,00 € /Survey
37,00 € Add. set

AFP	CEA	PAP	SCC
CA 15-3	CYFRA 21-1	PSA (total)	Thyreoglobulin
Ca 19-9	hCG (total) + β -hCG	PSA (free)	TPA
CA 72-4	β -2-microglobulin	PSA (compl.)	TPS
CA 125	NSE	S100	

No. 293	Tumormarkers - PSA			(Reinauer / Niederau)
- 2 samples serum -				28,00 € /Survey
PSA (total)	PSA (free)	PSA (compl.)	Testosterone (total)	18,00 € Add. set
No. 171	Urine chemistry I (qualitative)			(Wood / Niederau)
- 2 samples urine (lyophilized/liquid) -				31,00 € /Survey
Ascorbic acid	Glucose	Microalbuminuria (stix)	Urobilinogen	18,00 € Add. set
Bilirubin	HCG (Stix)	Nitrite		
Protein	Ketone bodies	pH		
Erythrocytes,blood	Leucocytes	Specif. gravity		
No. 172	Sediment (pictures)	Costs for separate order of No. 172:		10,00 € /Survey
No. 173	Urine chemistry II (quantitative)			(Reinauer / Wood)
- 2 samples urine (lyophilized/liquid) -				39,00 € /Survey
alpha-amylase	Protein (total)	Potassium	Microalbuminuria	18,00 € Add. set
Calcium	Glucose	Creatinine	Sodium	
Chloride	Uric acid	Copper	Osmolality	
Iron	Urea	Magnesium	Phosphate	
No. 175	Urine chemistry III (biogene amines)			(Wood / Maly)
- 2 samples à 10 mL urine (lyophilized) -				41,00 € /Survey
Epinephrine	5-hydroxyindoleacetic acid	Normetanephrine		21,00 € Add. set
Dopamine	Metanephrine	Serotonin		
Homovanillic acid	Norepinephrine	Vanillylmandelic acid		
No. 178	Urine chemistry IV (porphyrins)			(Wood / Maly)
- 2 samples à 10 mL urine (lyophilized) -				25,00 € /Survey
Aminolaevulinic acid	Coproporphyrin-1	Pentaporphyrin	Uroporphyrin (total)	21,00 € Add. set
Heptaporphyrin	Coproporphyrin-3	Porphobilinogen		
Hexaporphyrin	Coproporphyrin (total)	Porphyrins (total)		
No. 179	Urine chemistry V (hormones)			(Wood / Maly)
- 2 samples à 5 mL urine (lyophilized) -				20,00 € /Survey
Aldosterone	Cortisol (free)	HCG		15,00 € Add. set
No. 900	Virtual proficiency testing (Haemostaseology and Immunohaematology)			(Spannagl / Heinemann / Kiefel / Fischer)

Case reports, interactiv questionnaires, pre- and postanalytics.

This pilot project starts in spring 2010 - participation in the pilot phase is free of charge.

INFORMATION FOR VIRUS DIAGNOSTICS

The INSTAND EQA schemes in virology are performed in scientific cooperation with the Deutsche Vereinigung zur Bekämpfung der Viruskrankheiten (DVV) and Gesellschaft für Virologie (GV). Cooperation partners are: Joint Diagnostic Commission of DVV and GV, Robert Koch-Institut, Paul-Ehrlich-Institut, Friedrich-Loeffler-Institut, National and International Reference and Consiliary Laboratories, Blood Transfusion Service of German Red Cross (DRK-Blutspendedienst Ost), World Health Organization and International Consortium for Blood Safety.

The characterization of the EQA samples including the determination of the set points/consensus values is performed in cooperation with the INSTAND-Reference-Laboratories (see INSTAND-homepage, www.instand-ev.de).

Information for 2010:

Virus detection (genome/antigen) - Influenza A and B viruses incl. new influenza A virus (H1N1 - swine lineage) and avian influenza A viruses (H5N1) (370)

Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for influenza A and B viruses and antigen testing.

Extension of sample no.: The upcoming epidemiological situation with the new influenza A virus (H1N1 - swine lineage) results in an extension to 8 EQA samples per sample set.

Please note: These EQA samples are not suitable for virus propagation and immune fluorescence tests for antigen detection. Some of the samples can contain chemically inactivated avian influenza A viruses (H5N1) and new influenza A virus (H1N1 - swine lineage) which cannot be propagated anymore.

Special EQA program in accordance with the RKI-entero surveillance program: Virus detection - Enterovirus-PCR/cultivation and typing

This EQA program is performed every two years. The second next EQA scheme is planned for 2012.

Enterovirus types are detected by polymerase chain reaction (PCR)/ nucleic acid amplification techniques (NAT) or virus cultivation with subsequent typing in accordance with the entero surveillance program of Robert Koch-Institute (RKI).

Please note: The specification of an enterovirus type is required in this EQA program!

No. 371	Virus genome detection - Adenoviruses*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 4 samples à 0,5 mL, lyophil. cell culture-lysates -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for adenovirus-DNA		147,00 € /Survey 136,00 € Add. set
No. 365	Virus genome detection - Cytomegalovirus*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 4 samples à 0,5 mL, lyophil. cell culture-lysates -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for CMV-DNA		147,00 € /Survey 136,00 € Add. set
No. 372	Virus genome detection - Enteroviruses*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 4 samples à 0,5 mL, lyophil. cell culture-lysates -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for enterovirus-RNA		147,00 € /Survey 136,00 € Add. set
No. 374	Special EQA program in accordance with the RKI-entero surveillance program Virus detection - Enterovirus-PCR/cultivation and typing	(Zeichhardt / Grunert)
- 1 set = 5 samples à 1,5 mL, suspension of feces -		
		147,00 € /Survey Add. sets not available
Enterovirus types are detected by polymerase chain reaction (PCR)/ nucleic acid amplification techniques (NAT) or virus cultivation with subsequent typing in accordance with the entero surveillance program of Robert Koch-Institute (RKI).		
Please note: The specification of an enterovirus type is required in this EQA program!		
No. 376	Virus genome detection - Epstein Barr virus*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 4 samples à 0,5 mL, lyophil. cell culture-lysates -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for EBV-DNA		154,00 € /Survey 142,50 € Add. set
No. 377	Virus genome detection - Hepatitis A virus*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 4 samples à 1,0 mL, lyophilized plasmas -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for HAV-RNA		154,00 € /Survey 142,50 € Add. set
No. 361	Virus genome detection - Hepatitis B virus*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 4 samples à 1,0 mL, lyophilized plasmas -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for HBV-DNA		154,00 € /Survey 142,50 € Add. set
No. 362	Virus genome detection - Hepatitis C virus*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 4 samples à 1,0 mL, lyophilized plasmas -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for HCV-RNA		154,00 € /Survey 142,50 € Add. set
No. 375	Virus genome detection - Hepatitis C virus genotyping*	(Zeichhardt / Grunert)
1 set = 5 samples à 1,0 mL, lyophilized plasmas -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for HCV genotype differentiation		211,00 € /Survey 199,50 € Add. set
No. 363	Virus genome detection - Herpes simplex virus type 1 / type 2*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 6 samples à 0,5 mL, lyophil. cell culture-lysates -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for differentiation of HSV 1 and HSV 2 DNA		217,00 € /Survey 206,00 € Add. set
No. 360	Virus genome detection - HIV-1 (RNA)*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 4 samples à 1,0 mL, lyophilized plasmas -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for HIV-1-RNA		154,00 € /Survey 142,50 € Add. set

* In the case of non-fulfilled EQA-results in virology you can order surplus samples of the corresponding EQA program at a nominal cost. These samples are suitable for controlling your method and/or system and can be ordered directly from: Institut für Biotechnologische Diagnostik in der GBD, Potsdamer Chaussee 80, D - 14129 Berlin, Phone: +49-(0)30-6881977 30; Fax: +49-(0)30-6881977 41, Email: gbd-biotech@snafu.de.

No. 373	Virus genome detection - Human papillomaviruses*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 5 samples à 0,5 mL, lyophil. cell culture-lysates and biopsy materials -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for HPV-DNA		154,00 € /Survey 142,50 € Add. set
No. 370	Virus detection (genome/antigen) - Influenza A and B viruses incl. new influenza A virus (H1N1 - swine lineage) and avian influenza A viruses (H5N1)*	(Zeichhardt / Grunert)
- 1 set = 8 samples à 1,0 mL, lyophil. cell culture-lysates/allantoic fluids -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for Influenza A and B viruses and antigen testing		245,00 € /Survey 229,50 € Add. set
Please note: These EQA samples are not suitable for virus propagation and immune fluorescence tests for antigen detection. Some of the samples can contain chemically inactivated new influenza A virus (H1N1 - swine lineage) and avian influenza A viruses (H5N1) which cannot be propagated anymore.		
No. 367	Virus genome detection - Parvovirus B19*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 4 samples à 1,0 mL, lyophilized plasmas -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for parvovirus B19-DNA		152,00 € /Survey 141,00 € Add. set
No. 366	Virus genome detection - Varicella zoster virus*	(Zeichhardt / Grunert)
- 2 sets of samples; 1 set = 4 samples à 0,5 mL, lyophil. cell culture-lysates -		
Polymerase chain reaction (PCR) and other nucleic acid amplification techniques (NAT) for VZV-DNA		147,00 € /Survey 136,00 € Add. set
No. 351	Virus immunology - Cytomegalovirus*	(Zeichhardt / Grunert)
- 2 samples à 0,5 mL, serum -		
Antibodies against cytomegalovirus (IgG and IgM)		61,50 € /Survey 35,00 € Add. set
No. 352	Virus immunology - Epstein Barr virus*	(Zeichhardt / Grunert)
- 2 samples à 0,6 mL, serum -		
Antibodies against Epstein Barr virus and heterophilic antibodies		61,50 € /Survey 35,00 € Add. set
No. 358	Virus immunology - Tick borne encephalitis (TBE) virus*	(Zeichhardt / Grunert)
- 2 samples à 0,5 mL, serum -		
Antibodies against TBE virus (IgG and IgM)		69,50 € /Survey 35,00 € Add. set
No. 355	Virus immunology - Hantaviruses*	(Zeichhardt / Grunert)
- 4 samples à 0,5 mL, serum -		
Antibodies against hantaviruses (IgG and IgM)		141,00 € /Survey 122,00 € Add. set
No. 343	Virus immunology - Hepatitis A virus*	(Zeichhardt / Grunert)
- 4 samples à 0,5 mL, serum -		
Antibodies against hepatitis A virus (IgG and IgM)		54,00 € /Survey 51,00 € Add. set
No. 344	Virus immunology - Hepatitis B virus progr. I*	(Zeichhardt / Grunert)
- 12 samples à 0,75 mL, serum -		
HBs-antigen, anti-HBs and anti-HBc (4 samples each)		120,00 € /Survey 113,00 € Add. set
No. 345	Virus immunology - Hepatitis B virus progr. II*	(Zeichhardt / Grunert)
- 6 samples à 0,5 mL, serum -		
Anti-HBc-IgM, HBe-antigen and anti-HBe (2 samples each)		61,00 € /Survey 55,00 € Add. set

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No. 346	Virus immunology - Hepatitis C virus*	(Zeichhardt / Grunert)
- 4 samples à 0,5 mL, serum -		80,00 € /Survey
Antibodies against hepatitis C virus		53,50 € Add. set
No. 347	Virus immunology - Hepatitis D virus*	(Zeichhardt / Grunert)
- 2 samples à 0,5 mL, serum -		53,50 € /Survey
Antibodies against hepatitis D virus = anti-delta		35,50 € Add. set
No. 348	Virus immunology - Hepatitis E virus*	(Zeichhardt / Grunert)
- 2 samples à 0,4 mL, serum -		69,50 € /Survey
Antibodies against hepatitis E virus		35,00 € Add. set
No. 354	Virus immunology - Herpes simplex viruses*	(Zeichhardt / Grunert)
- 2 samples à 0,5 mL, serum -		69,50 € /Survey
Antibodies against HSV (IgG and IgM)		35,00 € Add. set
No. 335	Virus immunology - HIV-1 / HIV-2*	(Zeichhardt / Grunert)
- 4 samples à 0,75 mL, serum -		98,00 € /Survey
Antibodies against HIV-1 and HIV-2 (human immunodeficiency virus type 1 and type 2)		56,00 € Add. set
No. 337	Virus immunology - HIV-1 p24 antigen*	(Zeichhardt / Grunert)
- 2 samples à 0,5 mL, serum -		69,50 € /Survey
p24 core antigen of HIV-1 (human immunodeficiency virus type 1)		35,00 € Add. set
No. 357	Virus immunology - Measles virus*	(Zeichhardt / Grunert)
- 2 samples à 0,5 mL, serum -		61,50 € /Survey
Antibodies against measles virus (IgG and IgM)		35,00 € Add. set
No. 356	Virus immunology - Mumps virus*	(Zeichhardt / Grunert)
- 2 samples à 0,5 mL, serum -		61,50 € /Survey
Antibodies against mumps virus (IgG and IgM)		35,00 € Add. set
No. 342	Virus immunology - Parvovirus B19*	(Zeichhardt / Grunert)
- 4 samples à 0,5 mL, serum and plasma, resp.-		94,00 € /Survey
Antibodies against parvovirus B19 (IgG and IgM)		81,50 € Add. set
No. 359	Virus immunology - Respiratory syncytial virus (antigen/genome)*	(Zeichhardt / Grunert)
- 2 samples à 0,5 mL, lyophil. cell culture-		69,00 € /Survey
Antigen and genome detection of respiratory syncytial virus		34,50 € Add. set
No. 341	Virus immunology - Rubella virus*	(Zeichhardt / Grunert)
- 2 samples à 0,8 mL, serum -		53,50 € /Survey
Antibodies against rubella virus (IgG and IgM)		35,50 € Add. set
No. 353	Virus immunology - Varicella zoster virus*	(Zeichhardt / Grunert)
- 2 samples à 0,5 mL, serum -		61,50 € /Survey
Antibodies against varicella zoster virus (IgG and IgM)		35,00 € Add. set

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No. 290 Vitamins (serum) (Reinauer / Niederau)

- 2 samples à 5 mL serum (lyophilized) -

37,00 € /Survey
19,00 € Add. set

1,25-OH-cholecalciferol
25-OH-cholecalciferol (vitamin D)
Cobalamine (vitamin B12)

Folic acid
Pyridoxal-5-phosphate (vitamin B6)
Retinol (vitamin A)

Riboflavine (vitamin B2)
Tocopherol (vitamin E)
Thiamine (vitamin B1)

No. 291 Vitamins (whole blood) (Reinauer / Niederau)

- 2 samples à 2 mL haemolysate (lyophilized) -

26,00 € /Survey
18,00 € Add. set

Flavine adenine dinucleotide (FAD)
Flavine mononucleotide (FMN)
Pyridoxal-5-phosphate (vitamin B6)

Riboflavin (free) [vitamin B2]
Thiamine in erys [vitamin B1]
Thiamine pyrophosphate (TPP)

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