

(criteria for the evaluation of quantitative results)

D_{max} = acceptable difference
C = comparability
T = traceability

Only the tests included in the long-term evaluation process are listed in this overview.
The supervisor of the EQA round is authorised to extend D_{max} in justified cases (e.g. unexpected bias or dispersion, concentration near the limit of quantification, etc.).

EQA programme Test	D_{max}	EQA programme Test	D_{max}	EQA programme Test	D_{max}
Biochemistry					
ABR: Acid-base Status and Electrolytes					
Potassium cation (ISE)	8 %	Sodium	C 4 % T 5 %	Lactate	
Glucose	15 %	Triacylglycerols	C 13 % T 18 %	to 0,8 mmol/L:	27 %
Chloride anion (ISE)	7 %	Calcium	C 7 % T 8 %	from 0,8 mmol/L:	20 %
Lactate		Calcium ionised	10 %	E1: Hormones 1	
to 1 mmol/L:	0,18 mmol/L	Iron	15 %	17-OH-progesterone	
from 1 mmol/L:	18 %	ALB: Albumin in Urine		to 6 nmol/L:	C 1,98 nmol/L T 2,64 nmol/L
pCO ₂	12 %	ACR	24 %	from 6 nmol/L:	C 33 % T 44 %
pH	0,8 %	Albumin		Aldosterone	C 29 % T 38 %
pO ₂		to 30 mg/L:	30 %	DHEA-S	21 %
to 14 kPa:	25 %	from 30 mg/L:	21 %	17-beta-estradiol	
14 to 17 kPa:	17 %	Creatinine	C 16 % T 21 %	to 200 pmol/L:	C 44 pmol/L T 60 pmol/L
from 17 kPa:	12 %	AM: Basic Clinical Chemistry - Urine		from 200 pmol/L:	C 22 % T 30 %
Sodium cation (ISE)	5 %	Total protein		Ferritin	
Calcium cation (ISE)		to 0,1 g/L:	0,024 g/L	to 70 µg/L:	16,8 µg/L
to 1 mmol/L:	0,1 mmol/L	from 0,1 g/L:	24 %	from 70 µg/L:	24 %
from 1 mmol/L:	10 %	Potassium	15 %	Cortisol	C 16 % T 22 %
AKS: Basic Clinical Chemistry - Serum		Inorganic phosphate	18 %	Progesterone	C 20 % T 26 %
α-amylase	C 13 % T 15 %	Glucose	22 %	Total T3	
α-amylase pancreatic	18 %	Magnesium	20 %	to 1,5 nmol/L:	C 0,285 nmol/L T 0,36 nmol/L
γ-globulin (elfo)	30 %	Chloride	14 %	from 1,5 nmol/L:	C 19 % T 24 %
Albumin	10 %	Creatinine	C 16 % T 21 %	Free T3	
Albumin (elpho)	15 %	Uric acid	23 %	to 4 pmol/L:	0,6 pmol/L
ALP	C 14 % T 18 %	Urea	17 %	from 4 pmol/L:	15 %
ALT	C 13 % T 15 %	Osmolality	4 %	Total T4	C 17 % T 21 %
AST	C 14 % T 15 %	pH	5 %	Free T4	13 %
Bilirubin total	C 20 % T 26 %	Sodium	11 %	Testosterone	C 22 % T 30 %
Bilirubin direct	C 20 % T 26 %	Calcium	18 %	TSH	14 %
Total protein	C 8 % T 9 %	BIL: Bilirubin Neonatal		E2: Hormones 2	
CK	C 17 % T 20 %	Bilirubin total	C 18 % T 20 %	C-peptide	20 %
Potassium	C 6 % T 7 %	Bilirubin direct	C 18 % T 20 %	Ferritin	
Inorganic phosphate	C 10 % T 15 %	BM: Bone Markers		to 70 µg/L:	16,8 µg/L
gamma-GT	C 11 % T 21 %	25-hydroxyvitamin D	33 %	from 70 µg/L:	24 %
Glucose	C 7 % T 8 %	Osteocalcin	13 %	FSH	15 %
Magnesium	C 11 % T 15 %	P1NP	20 %	hGH	
Chloride	C 7 % T 11 %	Parathyrin biointact (PTH 1-84)	17 %	to 8,1 mU/L:	1,54 mU/L
Cholesterol	C 8 % T 9 %	Parathyrin intact (PTH)	23 %	from 8,1 mU/L:	19 %
Cholinesterase	12 %	Collagen telopeptide CTx-β	17 %	IGF-1	22 %
Creatinine	C 11 % T 13 %	CC: Cystatin C		IGF-BP3	20 %
Uric acid	C 10 % T 12 %	Cystatin C	23 %	Insulin	20 %
Lactate	15 %	CRP: C-Reactive Protein		Folate	
LD	C 14 % T 18 %	C-reactive protein	24 %	to 5 nmol/L:	1,35 nmol/L
Lipase	24 %	CRPP: C-Reactive Protein POCT		from 5 nmol/L:	27 %
Lithium	C 12 % T 12 %	C-reactive protein	24 %	LH	15 %
Urea	C 13 % T 15 %	CSFB: Cerebrospinal Fluid Analysis		Parathyrin biointact (PTH 1-84)	
Osmolality	5 %	Albumin	23 %	to 1,2 pmol/L:	0,276 pmol/L
		Total protein	27 %	from 1,2 pmol/L:	23 %
		Glucose	18 %	Parathyrin intact (PTH)	
		IgA	32 %	to 1,2 pmol/L:	0,276 pmol/L
		IgG	24 %	from 1,2 pmol/L:	23 %
		IgM	31 %	Prolactin	
		Lactate		to 110 mU/L:	17,6 mU/L
		to 0,8 mmol/L:	27 %	from 110 mU/L:	16 %
		from 0,8 mmol/L:	20 %	Renin	20 %
		CSFK: Cerebrospinal Fluid Diagnostics		SHBG	20 %
		Albumin	23 %	Vitamin B ₁₂	20 %
		Glucose	18 %	FOB: Faecal Occult Blood	
		IgA	32 %	Haemoglobin	25 %
		IgG	24 %		
		IgM	31 %		

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EQA programme			EQA programme			EQA programme		
Test		D _{max}	Test		D _{max}	Test		D _{max}
GHP: Glycated Haemoglobin POCT			Valproic acid		20 %	TPA		
Haemoglobin A _{1c}	C	10 %	Lithium	C	12 %		to 50 U/L:	12,5 U/L
	T	11 %		T	12 %		from 50 U/L:	25 %
GLC: Glucose (including glucometers)			Primidone		24 %	Thyreoglobulin		30 %
Glucose (laboratory systems)	C	10 %	Theophylline	C	19 %	VVV: Maternal Diagnostic Screening (Triple Test)		
	T	15 %		T	24 %	free β-hCG		15 %
Glucose (Abbott POCT)			Amicacin		20 %	PAPP-A		
to 5,55 mmol/L:	0,833 mmol/L		Gentamicin		31 %		to 0,1 U/L:	0,015 U/L
from 5,55 mmol/L:	15 %		Methotrexate		30 %		from 0,1 U/L:	15 %
Glucose (ACON POCT)			Vankomycin		28 %	PIGF		23 %
to 5,55 mmol/L:	0,833 mmol/L		TE: Trace Elements			AFP		20 %
from 5,55 mmol/L:	15 %		Al - plasma		25 %	hCG		18 %
Glucose (Arkray POCT)			Co - plasma		25 %	Estriol unconjug.		33 %
to 5,55 mmol/L:	0,833 mmol/L		Cr - plasma		25 %			
from 5,55 mmol/L:	15 %		Cu - plasma		25 %			
Glucose (Ascensia POCT)			Mg - plasma		25 %			
to 5,55 mmol/L:	0,833 mmol/L		Mn - plasma		25 %			
from 5,55 mmol/L:	15 %		Se - plasma		25 %			
Glucose (ForaCare POCT)			Zn - plasma		25 %			
to 5,55 mmol/L:	0,833 mmol/L		Cd - blood		25 %			
from 5,55 mmol/L:	15 %		Hg - blood		25 %			
Glucose (Infopia POCT)			Mn - blood		25 %			
to 5,55 mmol/L:	0,833 mmol/L		Pb - blood		25 %			
from 5,55 mmol/L:	15 %		Al - urine		25 %			
Glucose (LifeScan POCT)			Cd - urine		25 %			
to 5,55 mmol/L:	0,833 mmol/L		Cr - urine		25 %			
from 5,55 mmol/L:	15 %		Cu - urine		25 %			
Glucose (MED TRUST POCT)			Hg - urine		25 %			
to 5,55 mmol/L:	0,833 mmol/L		I - urine		25 %			
from 5,55 mmol/L:	15 %		Mn - urine		25 %			
Glucose (Nova POCT)			Ni - urine		25 %			
to 5,55 mmol/L:	0,833 mmol/L		Pb - urine		25 %			
from 5,55 mmol/L:	15 %		Se - urine		25 %			
Glucose (Roche POCT)			Zn - urine		25 %			
to 5,55 mmol/L:	0,833 mmol/L		TM: Tumour Markers					
from 5,55 mmol/L:	15 %		β-2-microglobulin		21 %			
HIL: Serum Indices			AFP					
Hemolytic index (quantitative)		20 %		to 10 µg/L:	2 µg/L			
Icteric index (quantitative)		20 %		from 10 µg/L:	20 %			
Lipemic index (quantitative)		20 %	CA 15-3		18 %			
KD: Glycated Haemoglobin			CA 19-9					
Haemoglobin A _{1c}	C	10 %		to 14 kU/L:	2,8 kU/L			
	T	11 %		from 14 kU/L:	20 %			
KM: Cardiac Markers			CA 72-4		22 %			
CK-MB mass		27 %	CA 125					
Homocysteine		20 %		to 10 kU/L:	2 kU/L			
Myoglobin		22 %		from 10 kU/L:	20 %			
NT-proBNP		27 %	CEA		16 %			
Troponin I			CYFRA 21-1					
	to 10 ng/L:	2,7 ng/L		to 1,3 µg/L:	0,234 µg/L			
	from 10 ng/L:	27 %		from 1,3 µg/L:	18 %			
Troponin T		22 %	hCG					
BNP		30 %		to 8 U/L:	1,44 U/L			
				from 8 U/L:	18 %			
RFA: Risk Factors for Atherosclerosis			Calcitonin		31 %			
Apolipoprotein AI		17 %	NSE					
Apolipoprotein B		14 %		to 3 µg/L:	0,9 µg/L			
Cholesterol		8 %		from 3 µg/L:	30 %			
Cholesterol HDL		15 %	PSA					
Cholesterol LDL (direct determination)		20 %		to 0,7 µg/L:	0,105 µg/L			
Cholesterol LDL (calculation)		15 %		from 0,7 µg/L:	15 %			
Lipoprotein (a) [g/L]		25 %	p2PSA		15 %			
Lipoprotein (a) [nmol/L]		20 %	free-PSA					
Triacylglycerols		15 %		to 0,7 µg/L:	0,112 µg/L			
				from 0,7 µg/L:	16 %			
TDM: Therapeutic Drugs			S-100					
Digoxin	C	30 %		to 0,04 µg/L:	0,013 µg/L			
	T	36 %		from 0,04 µg/L:	32 %			
Ethosuximide		24 %	SCCA					
Phenobarbital		20 %		to 0,8 µg/L:	55 %			
Phenytoin		20 %		from 0,8 µg/L:	32 %			
Carbamazepin		20 %						

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EQA programme		EQA programme		EQA programme	
Test	D _{max}	Test	D _{max}	Test	D _{max}
Haematology		Immunology		CD34: Population of CD34+ Cells	
AP: Antithrombotic Agents		INRP: INR measurement on POCT		CD 34+ (absolute count)	
Apixaban	25 %	Prothrombin test (CoaguChek)	20 %	to 5 count/ μ L:	1,25 count/ μ L
Dabigatran	30 %	Prothrombin test (microINR)	20 %	from 5 count/ μ L:	25 %
Rivaroxaban	25 %	Prothrombin test (Xprecia)	20 %	CD 34+ (relative count)	
DD: D Dimers		KO: Blood Count		to 0,1 %:	
D Dimers (FEU)		WBC		to 0,1 %:	
to 0,7 mg/L FEU:	0,189 mg/L FEU	to $4 \cdot 10^9$ /L:	18 %	from 0,1 %:	
from 0,7 mg/L FEU:	27 %	from $4 \cdot 10^9$ /L:	15 %	WBC	
D Dimers (DDim)		RBC	7 %	GP: Detection of Monoclonal Components	
to 0,3 mg/L D Dimer:	0,081 mg/L D Dimer	Haemoglobin	6 %	Total protein (plasma)	
from 0,3 mg/L D Dimer:	27 %	HCT	10 %	Index kappa/lambda	
HKG: Haemocoagulation Tests		MCV	10 %	Total protein (urine)	
Antithrombin		RDW	10 %	30 %	
to 50 %:	25 %	Platelets	18 %	IFT: Immunophenotypisation	
from 50 %:	18 %	MPV	18 %	B lymphocytes	
APTT - ratio	20 %	PDW [%]	15 %	to 1 %:	
Fibrinogen	25 %	PDW [fL]	15 %	from 1 %:	
Prothrombin test (INR)	20 %	PDW [-]	15 %	NK cells	
Prothrombin test (ratio)	20 %	Neutrophils	25 %	T lymphocytes (CD3+)	
Thrombin time (time)	15 %	Lymphocytes	25 %	Th lymphocytes (CD4+)	
Thrombin time (ratio)	20 %	Monocytes	50 %	T lymphocytes (CD8+)	
HS: Haemocoagulation Special		Eosinophils	50 %	PIG: IgG subclasses	
Factor VIII		Basophiles	100 %	IgG total	
to 5 %:	1,25 %	LMWH: Low Molecular Weight Heparin		IgG1	
from 5 %:	25 %	Low Molecular Weight Heparin		IgG2	
von Willebrand f. (activity)	25 %	25 %		IgG3	
von Willebrand f. (antigen)	20 %	RET: Reticulocytes		IgG4	
Factor IX		Reticulocyte count (analyser)		21 %	
to 5 %:	1,25 %	Reticulocyte count (microscope)		25 %	
from 5 %:	25 %	Immature reticulocyte fraction		21 %	
Factor XI		Mean amount of hemoglobin in reticulocytes		10 %	
Factor XII		Mean reticulocyte volume		10 %	
to 5 %:	1,25 %	SED: Erythrocyte Sedimentation Rate		PRO: Specific Proteins	
from 5 %:	25 %	Erythrocyte sedimentation (1 h)		α -1-antitrypsin	
Protein C	20 %	to 10 mm/1hour: 5 mm/1hour		α -2-macroglobulin	
Protein S		from 10 mm/1hour: 50 %		Albumin	
to 10 %:	3 %	Erythrocyte sedimentation (2 h)		C3 complement	
from 10 %:	30 %	to 10 mm/2hours: 5 mm/2hours		C4 complement	
ProC Global (norm. ratio)	25 %	from 10 mm/2hours: 50 %		Total protein	
Factor II	25 %			Ceruloplasmin	
Factor V	25 %			Haptoglobin	
Factor VII	25 %			IgA	
				IgG	
				IgM	
				Orosomuroid	
				Prealbumin	
				Soluble Transferrin Receptor (sTfR)	
				Transferrin	
				12 %	
				RF: Diagnostics of Rheumatoid Arthritis and ASLO	
				anti-streptolysin O (ASLO)	
				20 %	
				TIE: Allergy Control Scheme (Total IgE)	
				Total IgE	
				25 %	