



KBUDEK EXTERNAL QUALITY ASSESSMENT PROGRAMS

Turkish Society of Clinical Biochemistry Specialists is a non-profit organization providing International External Quality Assessment Programs (KBUDEK) for clinical laboratories with respect to the diagnosis and treatment of patients.

Established in 2005, KBUDEK provides reliable External Quality Assessment Programs at substantial cost savings for public and private clinical laboratories. The primary aim is to contribute to quality assessment and improvement of clinical laboratories operating within this field.

Currently a total of 21 comprehensive EQA programs are available covering a wide range of diagnostic testing.

Several flexible program options are available allowing laboratories to customize the program to suit their unique requirements.

KBUDEK is accredited to ISO/IEC 17043:2010 "Conformity assessment – General requirements for profiency testing". This standard demonstrates our commitment to quality whilst providing both participants and accrediting bodies with confidence in the schemes operation.

KBUDEK is constantly expanding with the introduction of new programs and the addition of new parameters to existing programs. Please visit <u>www.kbudek.com</u> for up-to-date information.

100% satisfaction was obtained from the surveys conducted to evaluate our customers' satisfaction with KBUDEK.



KBUDEK EQA programs provide ISO/IEC 17043 accredited programs that are accepted by National and International Accreditation Bodies worldwide.

- High level of participation
- Reliable External Quality Assessment Programs at substantial cost savings for public and private clinical laboratories
- Analyte levels covering normal and abnormal ranges, and clinical thresholds
- Technical support from experienced laboratory professionals
- Regular reports with rapid turnaround time
- User friendly software
- User friendly, easy-to-read reports
- 100% satisfaction

User friendly software

- Online submission of the External Quality Control results
- Once the measurement values are submitted, confirmation e-mails are sent
- Notification with SMS/e-mail once the evaluation reports are available
- Download of Evaluation reports and Certificates (Certificate of Performance, Certification of Participation)
- Asking questions/sending requests via software's e-mail infrastructure and/or whatsapp line.
- No schedules to memorize for testing and submission of results- website is open to entry of results throughout the month in which the sample will be tested and due date is always the last date of that month.
- Reports that are timely, confidential, accurate and clinically useful.
- Summary performance page for all tests in the program.

KBUDEK Reports

- *Quantitative reports-* Detailed individual statistical analysis and peer group comparisons, information about present and past laboratory test performances in the form of Levey-Jennings charts, histograms, % Deviation by Sample and % Deviation by Concentration charts, information about other participating method/instrument performances
- *Qualitative reports* : Detailed information about the distribution of data and the peer group consensus, quick visualization of your performance with bar graphs and modified Levey-Jennings charts, information about other participating method/instrument performances
- *Instrument Comparison Report*: If more than one instrument is used for the same test, a comparative and graphical bias and SDI (z-score) report containing all of these instruments is given on one page. Instead of tracking the performance of instruments in separate reports, it provides the opportunity to review on a single page and for 12 months retrospectively.
- *End-of-cycle report*: An overall assessment of laboratory performance over the entire cycle (with statistics and charts)
- *Total Analytic Error report*: By submission of IQC CV% for each test (up to 3 levels) on our website, TAE report in terms of sigma metrics and %Deviation against set performance criteria created by you or key regulatory and scientific organizations (eg. CLIA, EFLM) can be generated easily.

KBUDEK EQA PROGRAMS

BLOOD GAS PROGRAMS

- Liquid, aqueous
- 4/6/12 month cycle
- 1.8 mL

CLIEBUS CONTRACTOR

Analyte			
Calcium, ionized	Lactate	рН	
Chloride	Potassium	pO2	—
CO2, total	pCO2	Sodium	
Glucose			

BLOOD BANK PROGRAMS

- Ideal for both manual and automated analysis
- 2 cycles /4 cycles
- 2 Patient x 2 donor samples quarterly
- Evaluation according to WHO guideline

Analyte

ABO group (Forward/Reverse)	Crosss-Match (Compatibility)	Rh (D) (Forward/Reverse)
Antibody Identification	DAT (Direct Antiglobulin Test)	Rh Phenotyping
Antibody Screen		

CARDIAC MARKERS PROGRAMS

- Human serum based
- Lyophilized
- 4/6/12 month cycle
- 2 ml samples

Analyte

BNP	Digoxin	NT-proBNP
CK-MB (Activity)	hs CRP	Troponin l
CK-MB (mass)	Homocysteine	Troponin T
CK total	Myog l obin	

CLINICAL CHEMISTRY PROGRAMS

- Human serum based
- Lyophilized
- 4/6/12 month cycle
- 5 ml samples

Albumin	Chloride	Glucose	Potassium
Alkaline phosphatase	Cholesterol (Total)	Iron	Protein total
ALT	Cholesterol (HDL)	Lactate	Sodium
Amylase	Cholesterol (LDL)	LDH	TIBC
AST	CK total	Lipase	Triglycerides
Bicarbonate	Copper	Lithium	Urea
Bilirubin (Total)	Creatinine	Magnesium	Uric acid
Bilirubin (Direct)	Gamma GT	Phosphate, inorganic	Zinc
Calcium			

COAGULATION (MONTHLY) PROGRAMS

- Human plasma based
- Lyophilized
- 4/6/12 month cycle
- 1 ml samples

Analyte

aPTT	Fibrinogen
D-Dimer	PT/INR

COAGULATION SPECIALITY PROGRAMS

- Human plasma based
- Lyophilized
- 1 sample tested every 3 months
- 1 ml samples

Analyte

Active Protein C resistance	Factor IX	Protein C
Antithrombin III	Factor X	Protein S
Factor II	Factor XI	Thrombin Time (TT)
Factor V	Factor XII	vWF Ag
Factor VII	Plasminogen	vWF Activity (Ristocetin cofactor)
Factor VIII		

ERYTHROCYTE SEDIMENTATION RATE (ESR) PROGRAM

- Liquid, ready to use
- 2 Samples tested quarterly
- 2.0 ml samples
- Register up to 5 instruments per program at no extra cost

Analyte

ESR

ETHANOL/AMMONIA PROGRAMS

- Liquid, ready to use
- Human serum based
- 4/6/12 month cycle
- 2 ml samples

Analyte

Ammonia

Ethanol



HbA1c PROGRAMS

- Human whole blood based
- Lyophilized
- 4/6/12 month cycle
- 0.5 ml samples

Analytes

HbA1c

HEMATOLOGY PROGRAMS

- Liquid, ready to use
- 4/6/12 month cycle
- 4 separate shipments/year
- 2 ml samples

Analytes

WBC	МСН	RDW
RBC	MCHC	Platelet (Plt)
Hb	MCV	MPV
Htc		

HIV/HEPATITIS/SYPHILIS PROGRAMS

- Human plasma based
- Liquid
- Both Qualitative and Quantitative evaluation
- 2 Samples tested quarterly
- 1 ml samples

Analytes

Anti HAV	Anti HBs	HBsAg
Anti HBc	Anti HCV	Syphilis Antibodies
Anti HBe	Anti HIV	VDRL



KBUDEK

TORCH PANELİ

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HP

- Human serum based
- Lyophilized
- 4/6/12 month cycle
- Submit results for the appropriate sample every month
- 5 ml samples

Analytes

25-OH Vitamin D	Estradiol (E2)	Insulin	TSH
Anti TG	Ferritin	LH	Thyroxine, Free (FT4)
Anti TPO	Folate	Progesterone	Thyroxine, Total (T4)
C-Peptide	FSH	Prolactin	Triiodothyronine, Free (FT3)
Cortisol	hCG	PTH, intact	Triiodothyronine, Total (T3)
DHEA-SO4	lg E	Testosterone	Vitamin B12

THERAPEUTIC DRUGS PROGRAMS

- Free of charge for KBUDEK IMMUNOASSAY PROGRAM participants
- Human serum based
- Lyophilized
- 4/6/12 month cycle
- 5 ml samples

Analytes

Carbamazepine	Phenobarbital	Theophylline
Digoxin	Phenytoin	Valproic acid
Lithium	Salicylic acid	Vancomycin

IMMUNOASSAY SPECIALITY PROGRAMS

- Human serum based
- Lyophilized
- 4/6/12 month cycle
- Submit results for the appropriate sample every month
- 5 ml samples

1,25 OH Vitamin D	Androstenedion	IGF-1
17-OH Progesteron	Beta-2 Mikroglobulin	SHBG
ACTH	Estriol	Testosteron, Free
Aldosterone	GH	Thyroglobulin
AMH		



- Liquid, ready to use
- Human serum based
- 6 month cycle/year
- 1 ml samples

Analytes

Antistreptolysin O (ASO)	C-Reactive Protein (CRP)	Immunoglobulin G (IgG)
Complement C3	Immunoglobulin A (IgA)	Immunoglobulin M (IgM)
Complement C4	Immunoglobulin E (lgE)	Rheumatoid Factor (RF)

SERUM PROTEINS- SPECIALITY PROGRAMS

- Liquid, ready to use
- Human serum based
- 4 month cycle/year
- 1 ml samples

Analytes

	Haptoglobin Prealbumin Retinol Binding Protein (RBP) Transferrin	Lambda Light Chain, Total Lambda Light Chain, Free Kappa Light Chain, Total Kappa Light Chain, Total
α -2 Microglobulin Ceruloplasmin	Transferrin	Kappa Light Chain, Total

TORCH PROGRAMS

- Human plasma based
- Liquid
- Both Qualitative and Quantitative evaluation
- 2 Samples tested quarterly
- 1 ml samples

Anti Cytomegalovirus (CMV) IgG	Anti Rubella IgM
Anti Cytomegalovirus (CMV) IgM	Anti Toxoplasma IgG
Anti Rubella IgG	Anti Toxoplasma IgM



TUMOR MARKERS PROGRAMS

- Human serum based
- Lyophilized
- 4/6/12 month cycle
- Submit results for the appropriate sample every month
- 5 ml samples

Analytes

AFP	CA 19-9	PSA, Total
CEA	CA 125	PSA, Free
CA 15-3		

URINALYSIS PROGRAMS

- Liquid, ready to use
- Ideal for both manual and automated dipstick analysis
- 6 month cycle/year
- 12 ml samples

Bilirubin	hCG (Pregnancy)	рН
Blood/Hemoglobin	Ketones	Protein
Creatinine	Leucocytes	Specific Gravity
Glucose	Nitrite	Urobilinogen





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