

Internal Quality Control

ViaQC

VIAQC INTERNAL QUALITY CONTROLS

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

The primary aim is to contribute to quality assessment and improvement of clinical laboratories operating within this field.

Currently a total of 11 comprehensive IQC schemes are available covering a wide range of diagnostic testing.

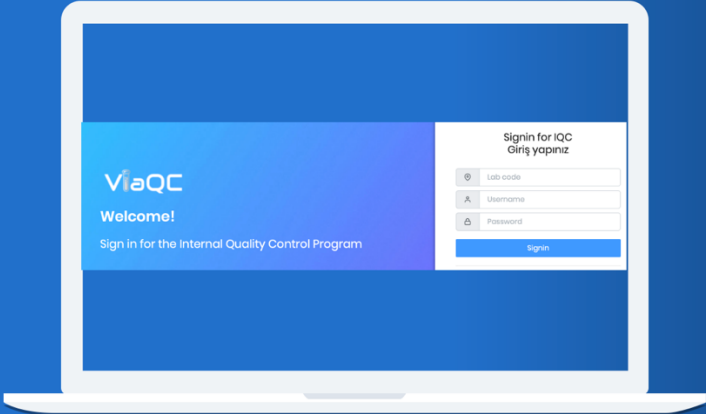
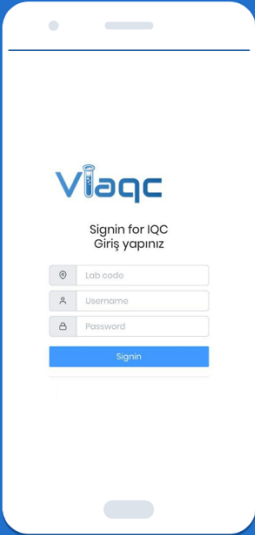
Several flexible control options are available allowing laboratories to customize the program to suit their unique requirements.

VIAQC INTERNAL QUALITY CONTROLS

- Reliable Internal Quality Control Schemes 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

VIAQC INTERNAL QUALITY CONTROL SOFTWARE

www.internal.viaqc.com



ViaQC Internal Quality Control Software

- ▶ User-Friendly, Simple Interface and Mobility
- ▶ Detailed Analytical and Visual Reporting
- ▶ Frequent and Continuous Evaluation
- ▶ Easy Error Detection
- ▶ Saving on time
- ▶ Saving on costs

Program Features

01	<u>Continuous and Critical Evaluation</u>	<ul style="list-style-type: none"> ✓ <u>Daily/long-term evaluation of quality control data</u> ✓ <u>Evaluation by Westgard or customized rules</u>
02	<u>Analytical Reporting</u>	<ul style="list-style-type: none"> ✓ <u>Test Performance Reports</u> ✓ <u>Comparative Reports (Z-Score, %Bias)</u> ✓ <u>Monthly Summary Reports</u> ✓ <u>Statistical Results (Mean, SD, CV%)</u>
03	<u>Performance evaluation</u>	<ul style="list-style-type: none"> ✓ <u>In-laboratory instrument performance comparison on a test basis</u> ✓ <u>Inter-laboratory instrument performance comparison on a test basis</u>
04	<u>Easy Result Entry/Update</u>	<ul style="list-style-type: none"> ✓ <u>Batch test result entry with file</u> ✓ <u>Manual test result entry</u> ✓ <u>Instant update/include/exclude a test result</u>

CATALOG NO	Description	Number and volumes of vials
VBG1001	Blood Gas Control Level 1	12 x 1.8 ml
VBG1002	Blood Gas Control Level 2	12 x 1.8 ml
VBG1003	Blood Gas Control Level 3	12 x 1.8 ml
VBG1026	Blood Gas Control (2 levels)	2 x 6 x 1.8 ml
VBG1034	Blood Gas Control (3 levels)	3 x 4 x 1.8 ml
VCA2001	Cardiac Markers Control Level 1	12 x 2.0 ml
VCA2002	Cardiac Markers Control Level 2	12 x 2.0 ml
VCA2003	Cardiac Markers Control Level 3	12 x 2.0 ml
VCA2026	Cardiac Markers Control (2 levels)	2 X 6 x 2.0 ml
VCA2034	Cardiac Markers Control (3 levels)	3 X 4 x 2.0 ml
VCC3001	Clinical Chemistry Control Level 1	12 x 5.0 ml
VCC3002	Clinical Chemistry Control Level 2	12 x 5.0 ml
VCC3003	Clinical Chemistry Control Level 3	12 x 5.0 ml
VCC3026	Clinical Chemistry Control (2 levels)	2 X 6 X 5.0 ml
VCC3034	Clinical Chemistry Control (3 levels)	3 X 4 X 5.0 ml
VCO4001	Coagulation Control Level 1	12 x 1.0 ml
VCO4002	Coagulation Control Level 2	12 x 1.0 ml
VCO4003	Coagulation Control Level 3	12 x 1.0 ml
VCO4026	Coagulation Control (2 levels)	2 x 6 x 1.0 ml
VCO4034	Coagulation Control (3 levels)	3 x 4 x 1.0 ml
VDD5001	D-Dimer Control Level 1	12 x 1.0 ml
VDD5002	D-Dimer Control Level 2	12 x 1.0 ml
VDD5003	D-Dimer Control Level 3	12 x 1.0 ml
VDD5026	D-Dimer Control (2 levels)	2 x 6 x 1.0 ml
VDD5034	D-Dimer Control (3 levels)	3 x 4 x 1.0 ml
VEA6001	Ethanol/Ammonia Control Level 1	12 x 2.0 ml
VEA6002	Ethanol/Ammonia Control Level 2	12 x 2.0 ml
VEA6003	Ethanol/Ammonia Control Level 3	12 x 2.0 ml
VEA6026	Ethanol/Ammonia Control (2 levels)	2 x 6 x 2.0 ml
VEA6034	Ethanol/Ammonia Control (3 levels)	3 x 4 x 2.0 ml
VHB7001	HbA1c Control Level 1	12 x 0.5 ml
VHB7002	HbA1c Control Level 2	12 x 0.5 ml
VHB7003	HbA1c Control Level 3	12 x 0.5 ml
VHB7026	HbA1c Control (2 levels)	2 x 6 x 0.5 ml
VHB7034	HbA1c Control (3 levels)	3 x 4 x 0.5 ml
VHE8001	Hematology Control Level 1	12 x 2.0 mL
VHE8002	Hematology Control Level 2	12 x 2.0 mL
VHE8026	Hematology Control (2 levels)	2 x 6 x 2.0 ml
VIM9001	Immunoassay Control Level 1	12 x 5.0 ml
VIM9002	Immunoassay Control Level 2	12 x 5.0 ml
VIM9003	Immunoassay Control Level 3	12 x 5.0 ml
VIM9026	Immunoassay Control (2 levels)	2 X 6 X 5.0 ml
VIM9034	Immunoassay Control (3 levels)	3 X 4 X 5.0 ml
VSP1101	Specific Proteins Control Level 1	12 x 2.0 ml
VSP1102	Specific Proteins Control Level 2	12 x 2.0 ml

VSP1103	Specific Proteins Control Level 3	12 x 2.0 ml
VSP1126	Specific Proteins Control (2 Levels)	2 x 6 x 2.0 ml
VSP1134	Specific Proteins Control (3 Levels)	3 x 4 x 2.0 ml
VUS1201	Urinalysis Control Level 1	12 x 12 ml
VUS1202	Urinalysis Control Level 2	12 x 12 ml
VUS1226	Urinalysis Control (2 Levels)	2 x 6 x 12 ml

BLOOD GAS PROGRAMS

- Assayed target values for 10 parameters
- Liquid, aqueous, ready to use
- Easy to open ampoules
- Stable to expiry date at 2°C - 8°C
- Ideal for use in POCT and on a wide range of blood gas instruments

Catalog No:

- *Cat no: VBG1001 Level 1 : 12 x 1.8 mL*
- *Cat no: VBG1002 Level 2 : 12 x 1.8 mL*
- *Cat no: VBG1003 Level 3 : 12 x 1.8 mL*
- *Cat no: VBG1026 (2 levels) : 2 x 6 x 1.8 mL (6 ampoules of each level)*
- *Cat no: VBG1034 (3 levels) : 3 x 4 x 1.8 mL (4 ampoules of each level)*

Analytes

pO ₂	Glucose	Chloride
pCO ₂	Lactate	Calcium, ionized
pH	Sodium	
CO ₂ , total	Potassium	

CARDIAC MARKERS PROGRAMS

- Designed to monitor both accuracy and precision
- Assayed target values for 11 parameters
- Human based serum
- Lyophilised for enhanced stability
- Stable to expiry date at 2°C - 8°C
- Reconstituted stability of 5 days at 2°C - 8°C or 4 weeks at -20°C

Catalog No:

- *Cat no: VCA2001 Level 1 : 12 x 2.0 mL*
- *Cat no: VCA2002 Level 2 : 12 x 2.0 mL*
- *Cat no: VCA2003 Level 3 : 12 x 2.0 mL*
- *Cat no: VCA2026 (2 levels) : 2 x 6 x 2.0 mL (6 vials of each level)*
- *Cat no: VCA2034 (3 levels) : 3 x 4 x 2.0 mL (4 vials of each level)*

Analytes

BNP	CK total	Homocysteine	Troponin I
CK-MB (Activity)	Digoxin	Myoglobin	Troponin T
CK-MB (mass)	hs CRP	NT-proBNP	

CLINICAL CHEMISTRY PROGRAMS

- Designed to monitor both accuracy and precision
- Assayed target values for 42 parameters
- Human based serum
- Lyophilised for enhanced stability
- Stable to expiry date at 2°C - 8°C
- Reconstituted stability of up to 7 days at 2°C - 8°C or 4 weeks at -20°C

Catalog No:

- *Cat no: VCC3001 Level 1 : 12 x 5.0 mL*
- *Cat no: VCC3002 Level 2 : 12 x 5.0 mL*
- *Cat no: VCC3003 Level 3 : 12 x 5.0 mL*
- *Cat no: VCC3026 (2 levels) : 2 x 6 x 5.0 mL (6 vials of each level)*
- *Cat no: VCC3034 (3 levels) : 3 x 4 x 5.0 mL (4 vials of each level)*

Analytes

Acid Phosphatase	Bicarbonate	Copper	Lactate	TIBC
Albumin	Bilirubin (Total)	Creatinine	LDH	Triglycerides
Alkaline phosphatase	Bilirubin (Direct)	Digoxin	Lipase	UIBC
ALT	Calcium	Gamma GT	Lithium	Urea
Amylase (Total)	Chloride	Glucose	Magnesium	Uric acid
Amylase (Pancreatic)	Cholesterol (Total)	Ig A	Phosphate, inorganic	Zinc
Apolipoprotein A-1	Cholesterol (HDL)	Ig G	Potassium	
Apolipoprotein B	Cholesterol (LDL)	Ig M	Protein total	
AST	CK total	Iron	Sodium	

COAGULATION PROGRAMS

- Designed to monitor both accuracy and precision
- Assayed target values for 18 parameters
- Human based serum
- Lyophilised for enhanced stability
- Stable to expiry date at 2°C - 8°C
- Reconstituted stability of up to 24 hours at 2°C - 8°C

Catalog No:

- Cat no: VCO4001 Level 1 : 12 x 1.0 mL
- Cat no: VCO4002 Level 2 : 12 x 1.0 mL
- Cat no: VCO4003 Level 3 : 12 x 1.0 mL
- Cat no: VCO4026 (2 levels) : 2 x 6 x 1.0 mL (6 vials of each level)
- Cat no: VCO4034 (3 levels) : 3 x 4 x 1.0 mL (4 vials of each level)

Analytes

aPTT	Antithrombin III	Factor VIII	Factor XII	vWF Ag
PT	Factor II	Factor IX	Plasminogen	vWF Activity
Thrombin Time	Factor V	Factor X	Protein C	
Fibrinogen	Factor VII	Factor XI	Protein S	

D-DIMER CONTROL

- Designed to monitor both accuracy and precision
- Assayed target values for D-dimer
- Human based serum
- Lyophilised for enhanced stability
- Stable to expiry date at 2°C - 8°C
- Reconstituted stability of up to 24 hours at 2°C - 8°C

Catalog No:

- Cat no: VDD5001 Level 1 : 12 x 1.0 mL
- Cat no: VDD5002 Level 2 : 12 x 1.0 mL
- Cat no: VDD5003 Level 3 : 12 x 1.0 mL
- Cat no: VDD5026 (2 levels) : 2 x 6 x 1.0 mL (6 vials of each level)
- Cat no: VDD5034 (3 levels) : 3 x 4 x 1.0 mL (4 vials of each level)

Analyte

D-Dimer

ETHANOL/AMMONIA PROGRAMS

- Liquid, ready to use
- Human serum based
- Stable to expiry date at 2°C - 8°C
- Open vial stability of 30 days at 2°C - 8°C

Catalog no

- Cat no: VEA6001 Level 1 : 12 x 2.0 mL
- Cat no: VEA6002 Level 2 : 12 x 2.0 mL
- Cat no: VEA6003 Level 3 : 12 x 2.0 mL
- Cat no: VEA6026 (2 levels) : 2 x 6 x 2.0 mL (6 vials of each level)
- Cat no: VEA6034 (3 levels) : 3 x 4 x 2.0 mL (4 vials of each level)

Analytes

Ammonia	Ethanol
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HbA1c PROGRAMS

- Assayed target values for HbA1c
- Human whole blood
- Lyophilised for enhanced stability
- Stable to expiry date at 2°C - 8°C
- Reconstituted stability of 4 weeks at 2°C - 8°C

Catalog No:

- Cat no: VHB7001 Level 1 : 12 x 0.5 mL
- Cat no: VHB7002 Level 2 : 12 x 0.5 mL
- Cat no: VHB7003 Level 3 : 12 x 0.5 mL
- Cat no: VHB7026 (2 levels) : 2 x 6 x 0.5 mL (6 vials of each level)
- Cat no: VHB7034 (3 levels) : 3 x 4 x 0.5 mL (4 vials of each level)

Analyte

HbA1c

HEMATOLOGY PROGRAMS

- Liquid, ready to use
- Assayed target values for parameters
- Stable to expiry date at 2°C - 8°C
- Open vial stability of 2 weeks at 2°C - 8°C

Catalog No:

- *Cat no: VHE8001 Level 1 : 12 x 2.0 mL*
- *Cat no: VHE8002 Level 2 : 12 x 2.0 mL*
- *Cat no: VHE8026 (2 levels) : 2 x 6 x 2.0 mL (6 vials of each level)*

Analytes

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

IMMUNOASSAY PROGRAMS

- Cost effective with reducing the number of controls
- Unique program including Tumor Markers and Therapeutic drugs
- Contains Anti Thyroglobulin, Anti TPO, AMH, Vitamin D (both 25- and 1,25-)
- Assayed target values for 57 parameters
- Human serum
- Lyophilised for enhanced stability
- Stable to expiry date at 2°C - 8°C
- Reconstituted stability of up to 7 days at 2°C - 8°C or 4 weeks at -20°C

Catalog No:

- *Cat no: VIM9001 Level 1 : 12 x 5.0 ml*
- *Cat no: VIM9002 Level 2 : 12 x 5.0 ml*
- *Cat no: VIM9003 Level 2 : 12 x 5.0 ml*
- *Cat no: VIM9026 (2 levels) : 2 x 6 x 5.0 ml (6 vials of each level)*
- *Cat no: VIM9034 (3 levels) : 3 x 4 x 5.0 ml (4 vials of each level)*

Analytes

1,25 (OH) ₂ Vit D	CA 15-3	Ferritin	Phenobarbital	Theophylline
25-OH Vit D	CA 19-9	Folate	Phenytoin	Thyroglobulin
ACTH	CA 125	Free T3	Progesterone	Total T3
Acetaminophen	CEA	Free T4	17-OH-Progesterone	Total T4
AFP	Carbamazepine	FSH	Prolactin	TSH
Aldosterone	C-Peptide	Gentamicin	PSA (total)	Tobramycin
AMH	Cortisol	Growth Hormone	PSA (free)	Valproic acid
Amikacin	DHEA-SO ₄	hCG	PTH, intact	Vancomycin
Androstenedione	Digoxin	IGF-1	Salicylate	Vitamin B12
Anti TG	Estradiol (E2)	Ig E	SHBG	
Anti TPO	Estriol (E3)	Insulin	Testosterone	
B-2 Microglobulin	Ethosuximide	LH	Testosterone (free)	

SPECIFIC PROTEINS PROGRAMS

- Liquid, ready to use
- Assayed target values for 26 parameters
- Human serum
- Stable to expiry date at 2°C - 8°C
- Open vial stability of 30 days at 2°C - 8°C

Catalog No:

- Cat no: VSP1101 Level 1 : 12 x 2.0 ml
- Cat no: VSP1102 Level 2 : 12 x 2.0 ml
- Cat no: VSP1103 Level 3 : 12 x 2.0 ml
- Cat no: VSP1126 (2 levels) : 2 x 6 x 2.0 ml (6 vials of each level)
- Cat no: VSP1134 (3 levels) : 3 x 4 x 2.0 ml (4 vials of each level)

Analytes

α -1 Acid Glycoprotein	Ceruloplasmin	Ig A	Prealbumin
α -1 Antitrypsin	Complement C3	Ig E	RBP
α -2 Macroglobulin	Complement C4	Ig G	RF
β -2 Microglobulin	CRP	Ig M	Total protein
Albumin	Ferritin	Kappa Light Chain	Transferrin
ASO	Haptoglobin	Lambda Light Chain	

URINALYSIS PROGRAMS

- Liquid, ready to use
- Ideal for both manual and automated urine test strip analysis
- Assayed values for 12 parameters
- Ideal for use in POCT and on a wide range of urine analyzers
- Stable to expiry date at 2°C - 8°C
- Open vial stability of 30 days at 2°C - 8°C

Catalog No:

- Cat no: VUS1201 Level 1 : 12 x 12 mL
- Cat no: VUS1202 Level 2 : 12 x 12 mL
- Cat no: VUS1226 (2 levels) : 2 x 6 x 12 mL (6 vials of each level)

Analytes

Albumin	Glucose	pH
Bilirubin	Ketones	Protein
Blood/Hemoglobin	Leucocytes	Specific Gravity
Creatinine	Nitrite	Urobilinogen



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