

PRODUCT CATALOG

IVD Controls & Calibrators Manufacturer (Liquid & Lyophilized)

beinQuality

www.beinquality.com.tr

1st Verification, Validation, Standardization and Release QC Laboratory of Beinquality



2ndR&D, Verification, Validation, Standardization and Release QC Laboratory of Beinquality



Pioneering IVD Manufacturing Since 1998

Beinquality manufactures high-quality liquid and lyophilized IVD controls and calibrators, designed for consistent precision and reliability.

Driven by Quality, Inspired by Innovation

At Beinquality, quality is not just a process - it's the foundation of our culture and the driving force behind every product we produce.

With a comprehensive Quality Management System (QA) and state-of-the-art manufacturing technologies, we ensure that every control and calibrator delivers consistent excellence in performance and reliability.

Operating under **ISO 13485** and **ISO 9001** certifications, and proudly **CE-marked**, our products embody full compliance with European and global standards of excellence.

Each manufacturing step is fully traceable through our ERP-integrated system, ensuring complete transparency from raw material sourcing to final batch release.

Validation is performed according to advanced CLSI-based standards.

Our in-house Validation and Quality Control Laboratory is equipped with a comprehensive range of international analytical platforms, including:

- **HbA1c Dedicated HPLCs**: Arkray, Bio-Rad, LIfotronic, GoldSite
- **Clinical Chemistry Analyzers**: Abbott Architect–Alinity series, Siemens Advia Atellica, Dimension series, Roche Integra 400 Plus, Mindray BS-800 and BS-200 series, Erba XL 200/650 series, Beckman Olympus AU 400

Every production batch undergoes rigorous release QC testing, evaluating parameters such as **bioburden (CFU) tests, pH, accelerated stability at +37 °C, optical density (546 nm), infectious disease screening, and residual moisture testing.**

Global Collaboration and Expertise

With 29 years of IVD manufacturing experience, Beinquality partners with some of the world's leading IVD companies to produce OEM and contract-based controls and calibrators for laboratories worldwide and for **EQAS organizations.**

Our collaboration reflects our proven ability to meet **CLSI-based validation** and optimization standards, ensuring full compatibility with major biochemistry analyzers.

R&D Excellence and Institutional Collaboration

Our innovation capacity is powered by scientifically rigorous R&D studies, carried out in cooperation with TÜBİTAK (The Scientific and Technological Research Council of Turkey), KOSGEB, and numerous academic institutions.

Beinquality's continuous research and development focus has led to significant advancements, including:

- Extended product shelf life
- Specialized biomarker development for niche diagnostic panels
- Longer open-vial stability with lyophilized form
- Superior precision within (intra-assay) and between (inter-assay) days
- Outstanding analytical performance ensuring reproducibility and reliable results

Contamination Warning

Although the produced materials are tested and found negative for infectious markers, no known testing method can guarantee with absolute certainty that the materials are free from Hepatitis B virus, Human Immunodeficiency Virus (HIV), Hepatitis C virus (HCV), or any other infectious agents.

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Multi Chemistry Controls & Calibrators

High-Analytical performance multi-chemistry controls and calibrators for automated and semi-automated analyzers. Purified, defibrinated, matrix-optimized, and lyophilized formulations deliver optimum stability and precision. Designed and validated through advanced **CLSI-Based protocols,** Beinquality's control and calibrator panels are ideal for:

- Automated and semi-automated analyzers utilizing absorbance, colorimetry, or immuno-turbidimetric methodologies.
- POC Test (Point-of-Care) analyzers for immuno-turbidimetric or clinical chemistry testing.
- Comprehensive chemistry control with assayed target values and ranges provided for main or detailed analytes in total. Instrument specific target values and ranges are provided for most major analysers on request which are already installed in our verification-standardization laboratory.

Controls



Calibrators



Lyophilized

BeinCon N & P (Normal and Pathologic)
Ref. No :
Normal : B1031M
Pathologic : B1032M
Volume : 5mL
Matrix : Human Plasma
Lyophilized Stability : 48 Months at +2/+8 °C
Open Vial Stability : 7 Days at +2/+8 °C

BeinCal
Ref. No : B1030M,B1030M3
Volume : 5 mL, 3mL
Matrix : Human Plasma
Lyophilized Stability : 48 Months at +2/+8 °C
Open Vial Stability : 7 Days at +2/+8 °C

Ordering Information

	Ref. No:	Product	Size
Calibrators	B1030M	BeinCal	1x5 mL
	B1029M	BeinCal	1x3 mL
Controls	B1031M	BeinCon N	1x5 mL
	B1032M	BeinCon P	1x5 mL

Analytes included in Routine Control & Calibrators

- Albumin
- Alkaline Phosphatase (ALP)
- Alanine Aminotransferase (ALT-GPT)
- Aspartate Aminotransferase (AST-GOT)
- Amylase
- Bilirubin Direct
- Bilirubin Total
- Calcium
- Chloride (Cl)
- Cholesterol Total
- Cholesterol-HDL
- Cholesterol-LDL
- Copper
- Creatinine
- Creatin-Kinase (CK)
- GGT (Gamma Glutamyl Transferase)
- Glucose
- Iron (Fe)
- Lactate Dehydrogenase (LDH)
- Lipase
- Magnesium
- Phosphorus (Inorganic)
- Potassium (K)
- Protein Total
- Sodium (Na)
- Triglycerides
- Urea/BUN
- UIBC & TIBC
- Uric Acid
- Zinc

The following analytes can be added upon request

- CK-MB
- CRP
- ASO
- RF
- Ferritin
- Lactate
- IgE
- α Hydroxybutyrate Dehydrogenase
- β Hydroxybutyrate
- Phospholipids
- CO_2 (Bicarbonate)
- Cholinesterase
- Amylase (Pancreatic)
- Lithium
- MALB (Microalmubin)



* Assigned Target Values (Conventional Units)

Analytes	Unit	Control Level 1 Low	Control Level 1 High	Control Level 1 Mean	Control Level 2 Low	Control Level 2 High	Control Level 2 Mean	Calibrator Mean Value
Albumin	g/dL	2	2,5	2,25	4	5,4	4,7	4
ALP	U/L	50	70	60	160	220	190	210
ALT	U/L	30	45	37,5	100	150	125	135
Amylase	U/L	60	90	75	200	300	250	300
AST (GOT)	U/L	30	50	40	125	225	175	210
Bilirubin D	mg/dL	0,4	0,8	0,6	1,5	2,5	2	3
Bilirubin T	mg/dL	0,8	1,1	0,92	2,5	4,0	3,25	4,5
Calcium	mg/dL	8	10	9	11,5	13,5	12,5	12,5
Cholesterol	mg/dL	80	120	100	200	300	250	275
HDL	mg/dL	30	40	35	57	68	62	70
LDL	mg/dL	50	75	62,5	126	154	140	140
CK-NAC	U/L	75	150	112,5	225	325	275	300
Cl	mmol/L	85	95	90	105	115	110	115
Copper	µg/dL	59	72	65	98	130	114	150
Creatinine	mg/dL	0,85	1,3	1,1	2	4	3	4,5
GGT	U/L	40	55	47,5	140	220	180	155
Glucose	mg/dL	80	110	95	180	240	225	275
Iron	µg/dL	80	100	90	180	225	202,5	235
K	mmol/L	2,5	4	3,25	5,8	7,3	6,5	6
LDH (DGKC)	U/L	125	275	200	550	750	650	500
Lipase	U/L	35	70	52,5	100	180	140	175
Mg	mg/dL	1	2	1,5	3	4	3,5	3,7
Na	mmol/L	120	140	130	140	165	152,5	165
Phosphorus	mg/dL	2,5	3,5	3	5,75	7,25	6,5	6,5
TP	g/dL	4	5	4,5	6	9	7,5	7
Trig	mg/dL	95	120	107,5	150	300	225	190
Uric Acid	mg/dL	3,5	4,5	4	6,5	10	8,25	9
UIBC	µg/dL	120	220	125	250	450	350	250
Urea	mg/dL	30	50	40	80	120	100	125
Zinc	µg/dL	70	80	75	250	275	267	165

* Assigned concentrations were defined based on clinical relevance and current market expectations.
Beinquality offers flexibility to spike analytes upon customer-specified target values, maintaining a controlled deviation of ±5%.

* Assigned Target Values (SI / IFCC Units)

Analytes	Unit	Control Level 1 Low	Control Level 1 High	Control Level 1 Mean	Control Level 2 Low	Control Level 2 High	Control Level 2 Mean	Calibrator Mean Value
Albumin	g/L	20,0	25,0	22,5	40,0	54,0	47,0	40,0
ALP	U/L	50,0	70,0	60,0	160,0	220,0	190,0	210,0
ALT	U/L	30,0	45,0	37,5	100,0	150,0	125,0	135,0
Amylase	U/L	60,0	90,0	75,0	200,0	300,0	250,0	300,0
AST (GOT)	U/L	30,0	50,0	40,0	125,0	225,0	175,0	210,0
Bilirubin D	µmol/L	6,8	13,7	10,3	25,7	42,8	34,2	51,3
Bilirubin T	µmol/L	13,7	18,8	15,7	42,8	68,4	55,6	77,0
Calcium	mmol/L	2,0	2,5	2,2	2,9	3,4	3,1	3,1
Cholesterol	mmol/L	2,1	3,1	2,6	5,2	7,8	6,5	7,1
HDL	mmol/L	0,8	1,0	0,9	1,5	1,8	1,6	1,8
LDL	mmol/L	1,3	1,9	1,6	3,3	4,0	3,6	3,6
CK-NAC	U/L	75,0	150,0	112,5	225,0	325,0	275,0	300,0
Cl	mmol/L	85,0	95,0	90,0	105,0	115,0	110,0	115,0
Copper	µmol/L	9,3	11,3	10,2	15,4	20,4	17,9	23,6
Creatinine	µmol/L	75,1	114,9	97,2	176,8	353,6	265,2	397,8
GGT	U/L	40,0	55,0	47,5	140,0	220,0	180,0	155,0
Glucose	mmol/L	4,4	6,1	5,2	9,9	13,2	12,4	15,1
Iron	µmol/L	14,3	17,9	16,1	32,2	40,3	36,3	42,1
K	mmol/L	2,5	4,0	3,3	5,8	7,3	6,5	6,0
LDH (DGKC)	U/L	125,0	275,0	200,0	550,0	750,0	650,0	500,0
Lipase	U/L	35,0	70,0	52,5	100,0	180,0	140,0	175,0
Mg	mmol/L	0,4	0,8	0,6	1,2	1,6	1,4	1,5
Na	mmol/L	120,0	140,0	130,0	140,0	165,0	152,5	165,0
Phosphorus	mmol/L	0,8	1,1	1,0	1,9	2,3	2,1	2,1
TP	g/L	40,0	50,0	45,0	60,0	90,0	75,0	70,0
Trig	mmol/L	1,1	1,4	1,2	1,7	3,4	2,6	2,2
Uric Acid	µmol/L	207,9	267,3	237,6	386,1	594,0	490,1	534,6
UIBC	µmol/L	21,5	39,4	22,4	44,8	80,6	62,7	44,8
Urea	mmol/L	5,0	8,3	6,7	13,3	20,0	16,7	20,8
Zinc	µmol/L	10,7	12,3	11,5	38,3	42,1	40,9	25,3

* Assigned concentrations were defined based on clinical relevance and current market expectations.
Beinquality offers flexibility to spike analytes upon customer-specified target values, maintaining a controlled deviation of ±5%.

Open Vial Stability Comparison of Prominent Suppliers

(Reconstituted Stability at +2/+8°C for 21 days)

Analytes	beinQuality	BRD California/USA	RCH Basel/Switzerland	RND Antrum/UK	ALT USA California
Zinc	≤±5%	66%	25%	34%	35%
ALP	≤±5%	-33%	-50%	-45%	-34%
AST	≤±5%	20%	≤±5%	27%	10%
ALT	≤±5%	8%	≤±5%	19%	≤±5%
Calcium	≤±5%	-7%	9%	-8%	≤±5%
Cholesterol T.	≤±5%	≤±5%	≤±5%	≤±5%	≤±5%
HDL	-8%	≤±5%	-9%	-12%	-10%
LDL	-19%	-14%	-13%	-31%	-14%
CK-Nac	≤±5%	≤±5%	≤±5%	≤±5%	9%
Creatinine	≤±5%	20%	32%	22%	51%
GGT	≤±5%	≤±5%	≤±5%	≤±5%	≤±5%
Glucose	≤±5%	≤±5%	≤±5%	≤±5%	98%
Phosphate	≤±5%	6%	8%	≤±5%	-12%
Total Protein	≤±5%	6%	6%	6%	6%
Triglyceride	≤±5%	-16%	-16%	-16%	10%
Uric Acid	≤±5%	≤±5%	≤±5%	≤±5%	11%
Urea	≤±5%	≤±5%	≤±5%	≤±5%	-102%
Na	≤±5%	12%	10%	8%	12%
K	≤±5%	≤±5%	≤±5%	≤±5%	-164%
Cl	≤±5%	≤±5%	6%	≤±5%	≤±5%
Bilirubin T.	17%	17%	-	16%	8%
Bilirubin D.	12%	9%	-	21%	≤±5%
Copper	≤±5%	≤±5%	9%	-16%	14%
Iron	-9%	-39%	≤±5%	-20%	-31%
Lipase	≤±5%	≤±5%	≤±5%	-18%	≤±5%
Magnesium	14%	23%	28%	14%	16%
UIBC	≤±5%	-75%	≤±5%	-	-99%
LDH	8%	≤±5%	≤±5%	≤±5%	≤±5%
Amylase T	-7%	≤±5%	≤±5%	-16%	≤±5%

%Bias values ≥10% are highlighted in red, while %Bias values <10% are highlighted in blue

HbA1c Controls & Calibrators are formulated with a ready-to-use reconstitution system that provides outstanding convenience and stability. Each lyophilized vial is reconstituted using 15-20 drops of 20 mL diluent then pouring the reconstitued control back to the diluent bottle After gentle mixing, the material can be directly applied - requiring only 3-5 drops into the sample cup (gode) from the diluent bottle (contains the reconstitued HbA1c Control), allowing immediate analysis on HbA1c dedicated HPLCs and capillary electrophoresis.

- No need to use micropipette.
- No need freezing and thawing cycle after reconstitution.
- No need aliquoting steps.
- Better analytical performance based on inter assay (Day to day) precision.
- Elimination risks sourced from manual liquid handling mistakes.

HbA1c Control Set For HPLC

Ref. No : B102HCA
Matrix : Human Whole Blood
Ingredients:

2x0.5 mL Lyophilized HbA1c Control Level-1 +
2x0.5 mL Lyophilized HbA1c Control Level-2 +

2x20mL Diluent For Level-1 +
2x20 mL Diluent For Level-2

Lyophilized Stability : 36 Months at +2/+8 °C
Open Vial Stability : 2 Months at +2/+8 °C
Diluent Volume Options : 20 mL/50 mL/100 mL

Lyophilized

HbA1c Calibrator Set For HPLC

Ref. No : B103HCA
Matrix : Human Whole Blood
Ingredients:

2x0.5 mL Lyophilized HbA1c Calibrator Level-1 +
2x0.5 mL Lyophilized HbA1c Calibrator Level-2 +

2x20mL Diluent For Level-1 +
2x20 mL Diluent For Level-2

Lyophilized Stability : 36 Months at +2/+8 °C
Open Vial Stability : 2 Months at +2/+8 °C
Diluent Volume Options : 20 mL/50 mL/100 mL



Ordering Information

Ref. No:	Product	Size
B102HCA	HbA1c Control Set For HPLC	4x0.5 mL+4x20 mL
B1024HCA	HbA1c HPLC Control Level-1	1x0.5 mL+1x20 mL
B1025HCA	HbA1c HPLC Control Level-2	1x0.5 mL+1x20 mL
B103HCA	HbA1c Calibrator Set For HPLC	4x0.5 mL+4x20 mL
B1034HCA	HbA1c HPLC Calibrator Level-1	1x0.5 mL+1x20 mL
B1035HCA	HbA1c HPLC Calibrator Level-2	1x0.5 mL+1x20 mL

HbA1c Controls & Calibrators for Immunoturbidimetric, POC, Enzymatic Detection Systems

Highly purified - stabilized - amadori applied - matrix effect minimized and dedicated to:
Immunoturbidimetric test methods or enzymatic test methods on biochemistry auto analyzers and semi - automated analyzers (photometers), POC Test based HbA1c analyzers as specified in the enclosed value sheets.

- *Established product in EQAS programs*

Contract Manufacturing Capability

- Volume Options: 0.5 mL, 1mL, 2 mL
- Analyzer sample cup specific vials
- Hb concentration:

Can be adjusted between 9.5 to 14 g/dL

Lyophilized

HbA1c Control

Ref. No : Level-1:B1024HC Level-2:B1025HC
Volume : 0.5 mL
Matrix : Human whole blood
Lyophilized Stability : 36 Months at +2/+8°C
Open Vial Stability : 30 Days at +2/+8°C

Lyophilized

HbA1c Calibrator

Ref. No : Level-1:B1020HC Level-2:B1021HC
Level-3:B1022HC Level-4:B1023HC
Volume : 0.5 mL
Matrix : Human whole blood
Lyophilized Stability : 36 Months at +2/+8°C
Open Vial Stability : 30 Days at +2/+8°C



Control/Calibrator Level	Name	* Assigned Target Conc.
Level-1	Control Level-1/Calibrator Level-1	5% to 6.5%
Level-2	Calibrator Level-2	7.5% to 8.5%
Level-3	Control Level-2/Calibrator Level-3	10.5% to 11%
Level-4	Calibrator Level-4	14.5% to 16%

* Assigned concentrations were defined based on clinical relevance and current market expectations.
Beinquality offers flexibility to spike analytes upon customer-specified target values, maintaining a controlled deviation of ±5%.

Ordering Information

Ref. No:	Product	Size
B1020HC	HbA1c Calibrator Level-1	1x0.5 mL
B1021HC	HbA1c Calibrator Level-2	1x0.5 mL
B1022HC	HbA1c Calibrator Level-3	1x0.5 mL
B1023HC	HbA1c Calibrator Level-4	1x0.5 mL
B1024HC	HbA1c Control Level-1	1x0.5 mL
B1025HC	HbA1c Control Level-2	1x0.5 mL

Multi Immunoassay Controls are Charcoal treated, Delipidified, Highly Purified, Defibrinated, Matrix-Optimized, and Lyophilized formulations deliver optimum stability and precision. Designed and validated through advanced CLSI-Based protocols Beinquality's control and calibrator panels are ideal for:

Key Features & Benefits

• **Broad Analyte Coverage:**
Includes Hormones and Endocrine Markers, Tumor Markers, Essential Vitamins and Metabolites, and a range of Therapeutic Drug Monitoring (TDM) analytes.

• **Multi-Platform Compatibility:**
Validated across a wide selection of leading immunoassay analyzers, ensuring flexibility and reliability in diverse laboratory environments.

• **Enhanced Accuracy and Consistency:**
Provides long-term stability and reproducibility, helping laboratories maintain confidence in their assay performance.

• **Convenient and Ready-to-Use:**
Simplifies routine quality control by reducing preparation time and minimizing handling errors.

• **Reliable Traceability:**
Manufactured under stringent quality standards, with traceability (if available) to recognized reference materials where applicable.

Lyophilized

Multi Immunoassay Control

Ref. No:
Level-1: B1045IM,
Level-2: B1046IM,
Level-3: B1047IM
Volume: 5 mL
Matrix : Human Plasma
Lyophilized Stability : 24 Months at +2/+8°C
Open Vial Stability : 7 Days at +2/+8°C



Analytes

- 1/25-OH-Vitamin
- ACTH
- AFP
- Aldosterone
- CA 125
- CA 15-3
- CA19-9
- C-Peptide
- CEA
- Cortisol
- DHEA-Sulfate
- Digoxin
- Estradiol (E2)
- Ferritin
- Folate
- FSH
- GH
- hCG
- Homocysteine
- IgE
- Insulin
- LH
- PRG
- Prolactin
- PSA (Free)
- PSA (Total)
- PTH
- SHBG
- T-Uptake
- T3 (Free)
- T3 (Total)
- T4 (Free)
- T4 (Total)
- Testosterone
- Thyroglobulin
- TSH
- 17-OH-Progesterone
- Valproic Acid
- Vancomycin
- Vitamin B12

* Assigned Target Values

Analytes	Unit	Level 1			Level 2			Level 3		
		Low	High	Mean	Low	High	Mean	Low	High	Mean
Prolactin	mU/L	80	120	100	250	350	300	600	800	700
TSH	mU/L	0,7	1,3	1	6	10	8	15	25	20
FSH	U/L	3	7	5	12	18	15	25	35	30
hCG	U/L	3	7	5	120	180	150	300	500	400
Homocysteine	µmol/L	8	12	10	16	24	20	30	50	40
PRG	nmol/L	3	5	4	12	18	15	50	70	60
Cortisol	nmol/L	80	120	100	300	500	400	800	1200	1000
C-Peptide	nmol/L	0,1	0,3	0,2	0,8	1,2	1	2	3	2,5
T3 (Total)	nmol/L	0,7	1,3	1	1,5	2,5	2	4	6	5
T3 (Free)	nmol/L	dep. on T3	dep. on T3	dep. on T3	dep. on T3	dep. on T3	dep. on T3	dep. on T3	dep. on T3	dep. on T3
T4 (Total)	nmol/L	50	70	60	80	120	100	150	250	200
T4 (Free)	nmol/L	dep. on T4	dep. on T4	dep. on T4	dep. on T4	dep. on T4	dep. on T4	dep. on T4	dep. on T4	dep. on T4
Testosterone	nmol/L	3	7	5	12	18	15	30	40	35
Vitamin B12	pmol/L	120	180	150	300	500	400	700	900	800
Folate	nmol/L	6	10	8	12	18	15	20	30	25
Estradiol (E2)	pmol/L	60	80	70	400	600	500	1300	1700	1500
T-Uptake	%	45	55	50	45	55	50	45	55	50
Thyroglobulin	µg/L	7	13	10	25	35	30	50	70	60
Valproic Acid	µmol/L	150	250	200	400	600	500	800	1200	1000
Vancomycin	µmol/L	3	5	4	7	13	10	16	24	20
Digoxin	nmol/L	0,7	1,3	1	2,5	3,5	3	4,6	6	5,3
IgE	kIU/L	70	90	80	200	280	240	300	500	400
PTH	pmol/L	1	3	2	12	18	15	20	30	25
SHBG	nmol/L	5	9	7	15	25	20	30	50	40

* Assigned concentrations were defined based on clinical relevance and current market expectations.
Beinquality offers flexibility to spike analytes upon customer-specified target values, maintaining a controlled deviation of ±10%.

Ordering Information

Ref. No:	Product	Size
B1045IM	Multi Immunoassay Control Level-1	1x5 mL
B1046IM	Multi Immunoassay Control Level-2	1x5 mL
B1047IM	Multi Immunoassay Control Level-3	1x5 mL

Beinquality manufactures three distinct panels of **protein controls and calibrators**, as listed below.
Highly Purified, Defibrinated, Matrix-Optimized, and Lyophilized formulations deliver optimum stability and precision. Designed and validated through advanced CLSI-Based protocols Beinquality's control and calibrator panels are ideal for:

- Quantitative immunoturbidimetric methods on automated or semi-automated clinical chemistry analyzers
- Quantitative nephelometric methods on automated or semi-automated nephelometry analyzers
- Quantitative immunoturbidimetric / nephelometric methods on Point-of-Care Testing (POC Test) analyzers

Lyophilized

Specific Protein Control

Ref. No : Level-1: B1028S Level-2: B1029S
Volume : 1 mL
Matrix : Human Plasma
Lyophilized Stability : 24 Months at +2/+8°C
Open Vial Stability : 8 Days at +2/+8°C



* Assigned Target Values

Analytes	Unit	Level 1			Level 2		
		Low	High	Mean	Low	High	Mean
ASO	IU/mL	100	187	143,5	192	357	274,5
RF	IU/mL	25	38	31,5	42	63	52,5
CRP	mg/L	7	13	10	44	66	55

* Assigned concentrations were defined based on clinical relevance and current market expectations.
Beinquality offers flexibility to spike analytes upon customer-specified target values, maintaining a controlled deviation of ±5%.

Lyophilized

Specific Protein-II Control

Ref. No : Level-1:B1032E Level-2: B1033E
Volume : 1 mL
Matrix : Human Plasma
Lyophilized Stability : 24 Months at +2/+8°C
Open Vial Stability : 8 Daysat at +2/+8°C



* Assigned Target Values

Analytes	Unit	Level 1			Level 2		
		Low	High	Mean	Low	High	Mean
ASO	IU/mL	100	187	143,5	192	357	274,5
RF	IU/mL	25	38	31,5	42	63	52,5
CRP	mg/L	7	13	10	44	66	55
FERRITIN	µg/L	67	100	83,5	220	330	275
D-Dimer	µgFEU/mL	0,578	0,96	0,769	2,1	3,5	2,8

* Assigned concentrations were defined based on clinical relevance and current market expectations.
Beinquality offers flexibility to spike analytes upon customer-specified target values, maintaining a controlled deviation of ±5%.

CE ISO 9001:2015 ISO 13485:2016

Liquid
Ready-To-Use

Extended Protein Controls

Ref. No :
Level-1: B1034C Level-2: B1035C
Volume : 2mL
Matrix : Human Plasma
Unopened Vial Stability : 18 Months at +2/+8 °C
Open Vial Stability : 7 Days at +2/+8 °C



Analytes

- Albumin
- α-1-Acid Glycoprotein
- α-1-Antitrypsin
- Alpha-2-Macroglobulin
- Anti-CCP
- Apolipoprotein A1
- ASO
- Beta-2-Microglobulin
- Ceruloplasmin
- Complement C3
- Complement C4
- C-Reactive Protein
- CystatinC
- Ferritin
- Haptoglobin
- IgA
- IgE
- IgG
- IgM
- Myoglobin
- Prealbumin
- Protein Total
- RF
- Transferrin

Ordering Information

Ref. No:	Product	Size
B1028S	Specific Protein Control Level-1	1x1mL
B1029S	Specific Protein Control Level-2	1x1mL
B1032E	Specific Protein-II Control Level-1	1x1mL
B1033E	Specific Protein-II Control Level-2	1x1mL
B1034C	Extended Protein Control Level-1	1x2mL
B1035C	Extended Protein Control Level-2	1x2mL

* Assigned Target Values

Analytes	Unit	Level 1			Level 2		
		Low	High	Mean	Low	High	Mean
Albumin (ALB)	g/L	<40	<40	<40	>40	>40	>40
ASO	kU/L	80	120	100	250	350	300
α 1-1 Antitrypsin	mg/L	1200	1800	1500	2500	3500	3000
α 1-1 Acid Glycoprotein	mg/L	600	1000	800	1200	2000	1600
α 2- Macroglobulin	mg/L	1600	2400	2000	3200	4800	4000
β 2-Microglobulin	mg/L	1	1,4	1,2	2,4	3,6	3
C3	mg/L	600	1000	800	1300	1900	1600
C4	mg/L	150	250	200	300	500	400
Ceruloplasmin	mg/L	280	420	350	500	900	700
CRP	mg/L	8	12	10	40	60	50
Ferritin	µg/L	90	150	120	300	500	400
Haptoglobin	mg/L	700	1300	1000	1600	2400	2000
Hemopexin	mg/L	200	300	250	350	650	500
IgA	mg/L	1600	2400	2000	3500	5500	4500
IgG	mg/L	8000	12000	10000	20000	30000	25000
IgE	kU/L	70	130	100	400	600	500
IgM	mg/L	700	1300	1000	1500	2500	2000
Myoglobin	mg/L	160	240	200	300	500	400
Prealbumin	mg/L	<200	<200	<200	>200	>200	>200
sTfR	mg/L	1	2	1,5	2	4	3
RF	kU/L	20	30	25	45	75	60
Transferrin	g/L	3	4	3,5	6	8	7

* Assigned concentrations were defined based on clinical relevance and current market expectations.
Beinquality offers flexibility to spike analytes upon customer-specified target values, maintaining a controlled deviation of ±5%.

Highly Purified, Defibrinated, Matrix-Optimized, and Lyophilized formulations deliver optimum stability and precision. Designed and validated through advanced CLSI-Based protocols Beinquality's **ASO Calibrator & RF Calibrators** are ideal for:

- Quantitative immunoturbidimetric method automated or semi-automated clinical chemistry analyzers.
- Quantitative nephelometric method automated or semi-automated nephelometry analyzers.
- Quantitative immunoturbidimetric/nephelometric method POC Test analyzers.

The single-vial calibrator is compatible with multipoint calibration, either through serial dilution by an auto analyzer or manual dilution with DI water.

Lyophilized

ASO Calibrator

Ref. No : B1033A
Volume : 1 mL
Matrix : Human Plasma
Lyophilized Stability : 18 Months at +2/+8 °C
Open Vial Stability : 7 Days at +2/+8 °C



Lyophilized

RF Calibrator

Ref. No : B1027R
Volume : 2mL
Matrix : Human Plasma
Lyophilized Stability : 24 Months at +2/+8°C
Open Vial Stability : 7 Days at +2/+8°C



Liquid
Ready-To-Use

RF Calibrator

Ref. No: B1029R
Volume : 2mL
Matrix : Human Plasma
Closed Vial Stability: 24 Months at +2/+8°C



Ordering Information

Ref. No:	Product	Size
B1033A	ASO Calibrator	1x1 mL
B1027R	RF Calibrator - Lyophilized	1x2mL
B1029R	RF Calibrator - Liquid	1x2mL

D-Dimer Controls and Calibrators

Highly Purified, Defibrinated, Matrix-Optimized, and Lyophilized formulations deliver optimum stability and precision. Designed and validated through advanced CLSI-Based protocols Beinquality's **D-Dmer Controls and Calibrators** are ideal for:

- Quantitative immunoturbidimetric method automated or semi-automated clinical chemistry analyzers.
- Quantitative nephelometric method automated or semi-automated nephelometry analyzers.
- Quantitative immunoturbidimetric/nephelometric method POC Test analyzers.
- *Established product in EQAS programs*

Lyophilized

D-Dimer Calibrator

Ref. No : Level-1: B1015D - Level-2: B1016D
Volume : 1 mL
Matrix : Human Plasma
Lyophilized Stability : 18 Months at +2/+8 °C
Open Vial Stability : 7 Days at +2/+8 °C



Lyophilized

D-Dimer Control

Ref. No : Level-1: B1017D - Level-2: B1018D
Volume : 1 mL
Matrix : Human Plasma
Lyophilized Stability : 18 Months at +2/+8 °C
Open Vial Stability : 7 Days at +2/+8 °C



Ordering Information

Ref. No:	Product	Size
B1015D	D-Dimer Calibrator Level - 1	1x1 mL
B1016D	D-Dimer Calibrator Level - 2	1x1 mL
B1017D	D-Dimer Control Level - 1	1x1 mL
B1018D	D-Dimer Control Level - 2	1x1 mL

Ferritin Controls and Calibrators

Highly Purified, Defibrinated, Matrix-Optimized, and Lyophilized formulations deliver optimum stability and precision. Designed and validated through advanced CLSI-Based protocols Beinquality's **Ferritin Controls and Calibrators** are ideal for:

- Quantitative immunoturbidimetric method automated or semi-automated clinical chemistry analyzers.
- Quantitative nephelometric method automated or semi-automated nephelometry analyzers.
- Quantitative immunoturbidimetric/nephelometric method POC Test analyzers.

Lyophilized

Ferritin Calibrator

Ref. No : Level-1: B1038F - Level-2: B1039F
Volume : 0.5 mL
Matrix : Human Plasma
Lyophilized Stability :15 Months at +2/+8 °C
Open Vail Stability : 8 Days at +2/+8 °C



Lyophilized

Ferritin Control

Ref. No : Level-1: B1036F - Level-2: B1037F
Volume : 0.5 mL
Matrix : Human Plasma
Lyophilized Stability :15 Months at +2/+8 °C
Open Vail Stability : 8 Days +2/+8 °C



Ordering Information

Ref. No:	Product	Size
B1036F	Ferritin Control Level - 1	1x0,5 mL
B1037F	Ferritin Control Level - 2	1x0,5 mL
B1038F	Ferritin Calibrator Level - 1	1x0,5 mL
B1039F	Ferritin Calibrator Level - 2	1x0,5 mL
B1040F	Ferritin Control Level - 1	1x1 mL
B1041F	Ferritin Control Level - 2	1x1 mL
B1042F	Ferritin Calibrator	1x3 mL
B1043F	Ferritin Calibrator	1x1 mL
B1044F	Ferritin Calibrator	1x0,5 mL

Urinalysis Controls

The urinalysis controls provide accurate and reproducible values for a wide range of commonly used urine chemistry parameters as listed below. Each production lot is validated and release-tested in Beinquality's in-house Validation & Quality Control Laboratory, ensuring full compatibility with major analytical platforms.

Designed for use with: Automated, semi-automated urinalysis analyzers and urine chemistry analyzers and visual/manual dipstick readers.

- **Package Sizes:** 12 mL and 120 mL

Liquid Ready-To-Use

Urinalysis Control Set

Ref. No : B103U2
Ingredients : 2x12 mL Negative
2x12 mL Positive
Matrix : Human Urine

Closed Stability:
24 Months at +2/+8 °C

Open Vial Stability:
30 Days at +2/+8 °C



Liquid Ready-To-Use

Urinalysis Control Set

Ref. No : B103BU2
Ingredients : 2x120 mL Negative
2x120 mL Positive
Matrix : Human Urine

Closed Stability:
24 Months at +2/+8 °C

Open Vial Stability:
30 Days at +2/+8 °C



Analytes

- Albumin
- Bilirubin
- Specific Gravity
- Glucose
- Creatinine
- Blood
- Nitrite
- pH
- Microalbumin
- Leukocytes
- hCG
- Ketones
- Protein
- Urobilinogen

\+

Optional *(Sediment)*

- WBC
- RBC

Ordering Information

Ref. No:	Product	Size
B1034U	Urinalysis Positive Control (Liquid)	12 mL
B1035U	Urinalysis Negative Control (Liquid)	12 mL
B103U2	Urinalysis Control Set (N+P) (Liquid)	2x12 mL+2x12mL
B1034BU	Urinalysis Positive Control (Liquid)	120 mL
B1035BU	Urinalysis Negative Control (Liquid)	120 mL
B103BU2	Urinalysis Control Set (N+P) (Liquid)	2x120 mL+2x120mL

Urine Chemistry Controls and Calibrators

Designed for use in the control and calibration of quantitative assays performed on:
Automated or semi-automated clinical chemistry analyzers using immunoturbidimetric methods,
Automated or semi-automated nephelometric analyzers,
POC Test analyzers employing quantitative immunoturbidimetric or nephelometric methods.



Lyophilized

Urine Chemistry Control Set

Ref. No : B103BEU2
Ingredients : 2x5 mL Level-1
2x5 mL Level-2
Matrix : Human Urine

Lyophilized Stability:
36 Months at +2/+8 °C

Open Vial Stability:
5 Days at +2/+8 °C (Exc.Amylase: 2 Days)



* Assigned Target Values

Analytes	Unit	Control Level 1 Low	Control Level 1 High	Control Level 2 Low	Control Level 2 High
Amylase	U/L	300	500	650	950
Calcium	mmol/L	0,5	2,5	3	4
Chloride	mmol/L	110	150	150	190
Creatinine	mmol/L	3	7	12	18
Glucose	mmol/L	4	8	12	18
Magnesium	mmol/L	1,5	2,5	3,55	4,45
Microalbumin	mg/L	80	120	160	240
Phosphate	mmol/L	3	7	9	15
Potassium	mmol/L	20	40	50	70
Protein Total	g/L	0,2	0,4	0,5	0,9
Sodium	mmol/L	80	120	120	180
Urea	mmol/L	200	300	350	450
Uric Acid	mmol/L	0,5	1,5	2	4

* Assigned concentrations were defined based on clinical relevance and current market expectations.
Beinquality offers flexibility to spike analytes upon customer-specified target values, maintaining a controlled deviation of ±5%.

Ordering Information

Ref. No:	Product	Size
B1034BEU	Urine Chemistry Control Level-1	1*5 mL
B1035BEU	Urine Chemistry Control Level-2	1*5 mL
B103BEU	Urine Chemistry Control Set	1*5 mL+1*5mL
B103BEU2	Urine Chemistry Control Set	2*5 mL+2*5mL

Drug of Abuse Urine Controls

Designed for use in the control and calibration of quantitative assays performed on automated or semi-automated clinical chemistry analyzers, dedicated immunoassay systems, POC Testing (Point-of-Care) devices. Compatible with colorimetric, enzyme immunoassay (EIA), chemiluminescent (CLIA), and lateral flow immunochromatographic methods.

Liquid
Ready-To-Use

DoA Urine Controls

Ref. No : Level-1: B1050D, Level-2: B1051D

Volume : 2mL

Matrix : Human Urine

Closed Vial Stability:
24 Months at +2/+8°C

Open Vial Stability:
7 Days at +2/+8°C



Analytes

- Amphetamine
- Barbiturates
- Benzodiazepine
- Cocaine Metabolite
- Methadone
- Opiates
- Ethanol
- Buprenorphin
- Cannabinoids (THC)
- Tricyclic Antidepressants

* Assigned Target Values

Analytes	Unit	Level 1			Level 2		
		Low	High	Mean	Low	High	Mean
Amphetamine	µg/L	400	800	600	1000	1400	1200
Barbiturates	µg/L	70	130	100	800	1200	1000
Benzodiazepine	µg/L	70	130	100	500	700	600
Cocaine Metabolite	µg/L	250	350	300	400	500	450
Methadone	µg/L	150	250	200	650	950	800
Opiates	mg/L	900	1100	1000	500	700	600
Ethanol	µg/L	0,07	0,13	0,1	0,4	0,6	0,5
Buprenorphin	µg/L	3	7	5	12	18	15
Cannabinoids (THC)	µg/L	10	20	15	65	85	75
Tricyclic Antidepressants	µg/L	200	300	250	500	700	600

* Assigned concentrations were defined based on clinical relevance and current market expectations.
Beinquality offers flexibility to spike analytes upon customer-specified target values, maintaining a controlled deviation of ±5%.

Patients absorb and metabolize drugs at different rates; therefore, administering a standard dosage to every individual is not appropriate. To prevent the clinical consequences of over- or under-medication, it is essential that therapeutic drug levels are precisely monitored and that laboratory professionals can fully rely on the accuracy of their analytical results.

• TDM Controls and Calibrators are designed to support accurate and reproducible performance in therapeutic drug monitoring assays.

• The materials demonstrate excellent stability after reconstitution (up to 7 Days at +2 °C – +8 °C), ensuring minimal waste and cost-effectiveness for routine laboratory use.

Designed for use with:

• Quantitative immunoassay methods on automated or semi-automated clinical chemistry analyzers
• Quantitative chemiluminescent and enzyme immunoassay (CLIA / EIA) methods on automated analyzers
• Quantitative liquid chromatography–tandem mass spectrometry (LC-MS/MS) systems
• Quantitative immunoassay methods on Point-of-Care Testing (POC Test) analyzers

• Available for a wide range of commonly monitored drugs as shown below in the analytes list

Analytes

- Acetaminophen
- Amikacin
- Caffeine
- Carbamazepine
- Cyclosporine
- Cortisol
- Digoxin
- Disopyramide
- Ethosuximide
- Gentamicin
- Thyroxine (T4)
- Lamotrigine
- Lidocaine
- Lithium
- Methotrexate
- NAPA
- Paracetamol
- Phenobarbital
- Phenytoin
- Primidone
- Procainamide
- Propanolol
- Quinidine
- Salicylate
- Streptomycin
- Theophylline
- Tobramycin
- T3, Tot.
- T4, Tot.
- Valproic acid
- Vancomycin

TDM Control

Ref. No :
Level-1:B1048T Level-2: B1049T

Volume : 5mL

Matrix : Human Plasma

Lyophilized Vial Stability:
24 Months at +2/+8°C

Open Vial Stability:
7 Days at +2/+8°C



* Assigned Target Values

Analytes	Unit	Level 1			Level 2		
		Low	High	Mean	Low	High	Mean
Acetaminophen	mg/L	8	12	10	32	48	40
Amikacin	mg/L	4,5	7,5	6	17	23	20
Caffeine	mg/L	3	5	4	8	12	10
Carbamazepine	mg/L	2	4	3	6	10	8
Cyclosporine	µg/L	80	120	100	250	350	300
Cortisol	µg/L	55	85	70	160	240	200
Digoxin	µg/L	0,6	1	0,8	1,5	2,5	2
Disopyramide	mg/L	1	1,4	1,2	2,5	3,5	3
Ethosuximide	mg/L	16	24	20	50	70	60
Gentamicin	mg/L	2	3	2,5	4	6	5
Thyroxine (T4)	µg/L	55	75	65	120	180	150
Lidocaine	mg/L	1,2	1,8	1,5	4	6	5
Lithium	mmol/L	0,4	0,6	0,5	1	1,5	1,2
Methotrexate	mg/L	4	6	5	20	30	25
NAPA	mg/L	1,2	1,8	1,5	4	6	5
Phenobarbital	mg/L	6,5	9,5	8	16	24	20
Phenytoin	mg/L	3,2	4,8	4	12	18	15
Primidone	mg/L	3,2	4,8	4	10	14	12
Procainamide	mg/L	2,4	3,6	3	6	9	7,5
Propanolol	µg/L	12	18	15	100	140	120
Quinidine	mg/L	0,65	0,95	0,8	3	5	4
Salicylate	mg/L	8	12	10	24	36	30
Streptomycin	mg/L	10	14	12	20	30	25
Theophylline	mg/L	5	7	6	12	18	15
Tobramycin	mg/L	2,4	3,6	3	5,5	8,5	7
T3, Tot.	µg/L	1	1,6	1,3	2	3	2,5
T4, Tot.	µg/L	3,5	6,5	5	70	90	80
Valproic acid	mg/L	14	20	17	60	90	75
Vancomycin	mg/L	4,5	7,5	6	20	30	25

* Assigned concentrations were defined based on clinical relevance and current market expectations.
Beinquality offers flexibility to spike analytes upon customer-specified target values, maintaining a controlled deviation of ±5%.

Cardiac Marker Controls and Calibrators

Designed for use in the control and calibration of quantitative assays performed on:

- Automated or semi-automated clinical chemistry analyzers using immunoturbidimetric methods,
- Automated or semi-automated nephelometric analyzers,
- POC Test analyzers employing quantitative immunoturbidimetric or nephelometric methods.

Lyophilized

Cardiac Marker Control

Ref. No :
Level-1: B1014C, Level-2: B1015C

Volume : 2mL

Matrix : Human Plasma

Lyophilized Vial Stability:
24 Months at +2/+8°C

Open Vial Stability:
2 Days at +2/+8°C

Analytes

- BNP
- NT-ProBNP
- CK-Tot.
- CK-MB (activity)
- CK-MB (mass)
- hs-CRP
- Digoxin
- Homocystein
- Myoglobin
- Troponin I (TnI)
- Troponin T (TnT)





* Assigned Target Values

Analytes	Unit	Control Level 1 Low	Control Level 1 High	Control Level 2 Low	Control Level 2 High
BNP	ng/L	20	40	65	95
NT-ProBNP	ng/L	40	60	150	250
CK-Tot.	U/L (37°C)	50	70	170	230
CK-MB (activity)	U/L (37°C)	20	40	100	140
CK-MB (mass)	µg/L	20	40	100	140
hs-CRP	mg/L	0,3	0,7	4	8
Digoxin	µg/L	80	120	150	250
Homocystein	mg/L	7	13	30	40
Myoglobin	µg/L	50	70	240	360
Troponin I (TnI)	µg/L	0,15	0,35	0,7	1,1
Troponin T (TnT)	µg/L	0,01	0,03	0,1	0,3

Ordering Information

Ref. No:	Product	Size
B1014C	Cardiac Marker Control Level-1	1*2 mL
B1015C	Cardia Marker Control Level-2	1*2 mL

CK-MB Controls and Calibrators

Creatinine Kinase MB/MM activity CK-MB, CK-NAC (CK Total) control and calibrator are for control and calibration of

• Automated or semi-automated clinical chemistry analyzers using immunoturbidimetric methods,

Lyophilized

CK-MB Calibrator

Ref. No : B1011C
Volume : 2 mL
Matrix : Human Plasma

Lyophilized Vial Stability:
12 Months at +2/+8 °C

Open Vial Stability:
7 Days at +2/+8 °C



Lyophilized

CK-MB Control

Ref. No:: Level-1: B1012C Level-2: B1013C
Volume: 2 mL
Matrix: Human Plasma

Lyophilized Vial Stability:
12 Months at +2/+8°C

Open Vial Stability:
7 Days at +2/+8°C



Ordering Information

Ref. No:	Product	Size
B1011C	CK-MB Calibrator	1x2 mL
B1012C	CK-MB Control Level - 1	1x2 mL
B1013C	CK-MB Control Level - 2	1x2 mL

Lipid (HDL Cholesterol, LDL Cholesterol, Triglyceride, Total Cholesterol) Calibrator

Highly Purified, Defibrinated, Matrix-Optimized, and Lyophilized formulations deliver optimum stability and precision. Designed and validated through advanced CLSI-Based protocols Beinquality's **Lipid Calibrator** is ideal for:

- Automated or semi-automated clinical chemistry analyzers using colorimetric methods,
- POC Test analyzers employing quantitative colorimetric methods.
- Long term stability by adding specific enzymes inhibitors which block HDL converting to LDL and LDL converting to HDL

Lyophilized

Lipid (HDL-LDL) Calibrator

Ref. No : B1014H
Volume : 1 mL
Matrix : Human Plasma

Lyophilized Vial Stability:
36 Months at +2/+8 °C

Open Vial Stability:
10 Days at +2/+8 °C



Ordering Information

Ref. No:	Product	Size
B1014H	Lipid (HDL-LDL) Calibrator	1x1 mL




uality
Plasma defibrination area
Residual Moisture Analyzer


Lyophilization Capacity:
15.000 Vials Per Production
Fully-Automated
Filling-Capping-Labeling Unit
Capacity: 7.200 Vials Per Hour

Linearity Verification Material

• Linearity Verification Materials are designed to verify the analytical linearity and accuracy of assays across the full patient reportable range. These materials provide reliable, multi-level concentration sets that allow laboratories to confirm instrument and reagent performance in compliance with CLSI EP06 and EP09 guidelines.

• Each linearity material is ready-to-use or lyophilized, with analyte concentrations carefully assigned to cover low, mid, and high ranges representative of clinical values. Beinquality's linearity products are suitable for use with automated or semi-automated clinical chemistry analyzers, ensuring consistent, traceable, and reproducible results.


Lyophilized


Liquid
Ready-To-Use

PRODUCT NAME	Ref. No:	Ref. No:	Volume
Alanine Aminotransferase (ALT) Linearity Ver. Material	B1010LK	B1010LF	1x5 mL
Alkaline Phosphatase (ALP) Linearity Ver. Material	B1011LK	B1011LF	1x5 mL
Amylase (AMY) Linearity Ver. Material	B1020A	B1020LF	1x5 mL
Antistreptolysin O (ASO) Linearity Ver. Material	B1012LK	B1012LF	1x5 mL
Aspartate Aminotransferase (AST) Linearity Ver. Material	B1013LK	B1013LF	1x5 mL
Calcium (Cal) Linearity Ver. Material	B1015LK	B1015LF	1x5 mL
Chloride (Cl) Linearity Ver. Material	B1017LK	B1017LF	1x5 mL
Cholesterol (Chol) Linearity Ver. Material	B1018LK	B1018LF	1x5 mL
Copper (Cu) Linearity Ver. Material	B1021LK	B1021LF	1x5 mL
C-Reactive Protein (CRP) Linearity Ver. Material	B1022LK	B1022LF	1x5 mL
Creatine Kinase, N-Acetylcysteine Activated (CK-Nac) Linearity Ver. Material	B1016C	B1016LF	1x5 mL
Creatine Kinase–MB Isoenzyme (CK-MB) Linearity Ver. Material	B1014C	B1014LF	1x5 mL
Creatinine (CREA) Linearity Ver. Material	B1023LK	B1023LF	1x5 mL
D-Dimer Linearity Ver. Material	B1020D	B1020LF	1x5 mL
Direct Bilirubin (Bil-D) Linearity Ver. Material	B1024LK	B1024LF	1x5 mL
Ferritin (FER) Linearity Ver. Material	B1025LK	B1025LF	1x5 mL
Gamma-Glutamyl Transferase (GGT) Linearity Ver. Material	B1026LK	B1026LF	1x5 mL
Glucose (Glu) Linearity Ver. Material	B1027LK	B1027LF	1x5 mL
Glycated Hemoglobin (HbA1c) Linearity Ver. Material	B1019HC	B1019LF	1x5 mL
High-Density Lipoprotein Cholesterol (HDL) Linearity Ver. Material	B1028LK	B1028LF	1x5 mL
Inorganic Phosphate (PHOS) Linearity Ver. Material	B1029LK	B1029LF	1x5 mL
Iron (Fe) Linearity Ver. Material	B1031LK	B1031LF	1x5 mL
Lactate Dehydrogenase (LDH) Linearity Ver. Material	B1032LK	B1032LF	1x5 mL
Lipase (LIP) Linearity Ver. Material	B1016L	B1016LF	1x5 mL
Low-Density Lipoprotein Cholesterol (LDL) Linearity Ver. Material	B1033LK	B1033LF	1x5 mL
Magnesium (Mg) Linearity Ver. Material	B1034LK	B1034LF	1x5 mL
Microalbumin Linearity Ver. Material	B1035LK	B1035LF	1x5 mL
Potassium (K) Linearity Ver. Material	B1036LK	B1036LF	1x5 mL
Rheumatoid Factor (RF) Linearity Ver. Material	B1030R	B1030LF	1x5 mL
Sodium (Na) Linearity Ver. Material	B1037LK	B1037LF	1x5 mL
Total Bilirubin (Bil-T) Linearity Ver. Material	B1038LK	B1038LF	1x5 mL
Total Protein (TP) Linearity Ver. Material	B1039LK	B1039LF	1x5 mL
Triglycerides (TRIG) Linearity Ver. Material	B1040LK	B1040LF	1x5 mL
Unsaturated Iron-Binding Capacity (UIBC) Linearity Ver. Material	B1041LK	B1041LF	1x5 mL
Urea (UREA) Linearity Ver. Material	B1042LK	B1042LF	1x5 mL
Uric Acid (UA) Linearity Ver. Material	B1043LK	B1043LF	1x5 mL
Zinc (Zn) Linearity Ver. Material	B1044LK	B1044LF	1x5 mL

General Product List

Ref. No:	PRODUCT NAME	Size	Lyophilized	Liquid Ready-To-Use
A10112A	Albumin Calibrator	3 x 1 mL		x
A1011A	Albumin Calibrator	1 x 3 mL		x
B1033A	ASO Calibrator	1 x 1 mL	x	
B1034A	ASO Control	1 x 1 mL	x	
B1030M	BeinCal	1 x 5 mL	x	
B1029M	BeinCal	1 x 3 mL	x	
B1031M	BeinCon N	1 x 5 mL	x	
B1032M	BeinCon P	1 x 5 mL	x	
A10142C	Calcium Calibrator	3 x 1 mL		x
A1014C	Calcium Calibrator	1 x 3 mL		x
B1014C	Cardiac Marker Control Level - 1	1 x 2 mL	x	
B1015C	Cardiac Marker Control Level - 2	1 x 2 mL	x	
A10152CH	Cholesterol Calibrator	3 x 1 mL		x
A1015CH	Cholesterol Calibrator	1 x 3 mL		x
B1011C	CK-MB Calibrator	1 x 2 mL	x	
B1012C	CK-MB Control Level - 1	1 x 2 mL	x	
B1013C	CK-MB Control Level - 2	1 x 2 mL	x	
A1016CO	Copper Calibrator	5 x 4 mL		x
A1017CO	Copper Control Level-1	5 x 4 mL		x
A1018CO	Copper Control Level-2	5 x 4 mL		x
A1019CR	Creatinine Calibrator	1 x 3 mL		x
A10191CR	Creatinine Calibrator Level-1	1 x 1.5 mL		x
A10192CR	Creatinine Calibrator Level-2	1 x 1.5 mL		x
A10192CR	Creatinine Calibrator Set	1 x 3 mL + 1 x 3 mL		x
A10193CR	Creatinine Calibrator Set	3 x 1 mL + 3 x 1 mL		x
A1020CP	CRP Calibrator (~50 mg/L)	1 x 1 mL		x
A1021CP	CRP Control Level-1	2 x 1.5 mL	x	
A1022CP	CRP Control Level-2	2 x 1.5 mL	x	
A10232CT	CRP Turbi Wr Calibrator (4 levels)	4 x 1.5 mL		x
A1023CT	CRP Turbi Wr Calibrator (5 levels)	5 x 1.5 mL		x
B1015D	D-Dimer Calibrator Level - 1	1 x 1 mL	x	
B1016D	D-Dimer Calibrator Level - 2	1 x 1 mL	x	

General Product List

Ref. No:	PRODUCT NAME	Size	Lyophilized	Liquid Ready-To-Use
B1017D	D-Dimer Control Level - 1	1 x 1 mL	x	
B1018D	D-Dimer Control Level - 2	1 x 1 mL	x	
B1050D	DoA Urine Control Level-1	1 x 2 mL		x
B1051D	DoA Urine Control Level-2	1 x 2 mL		x
A1024ET	Ethanol Calibrator	2 x 1 mL		x
A1025ET	Ethanol Control Level-1	2 x 1 mL		x
A1026ET	Ethanol Control Level-2	2 x 1 mL		x
B1034C	Extended Protein Control Level-1	1 x 2 mL		x
B1035C	Extended Protein Control Level-2	1 x 2 mL		x
B1042F	Ferritin Calibrator	1 x 3 mL	x	
B1043F	Ferritin Calibrator	1 x 1 mL	x	
B1044F	Ferritin Calibrator	1 x 0,5 mL	x	
B1038F	Ferritin Calibrator Level - 1	1 x 0,5 mL	x	
B1039F	Ferritin Calibrator Level - 2	1 x 0,5 mL	x	
B1036F	Ferritin Control Level - 1	1 x 0,5 mL	x	
B1040F	Ferritin Control Level - 1	1 x 1 mL	x	
B1037F	Ferritin Control Level - 2	1 x 0,5 mL	x	
B1041F	Ferritin Control Level - 2	1 x 1 mL	x	
A10262G	Glucose Calibrator	3 x 1 mL		x
A1026G	Glucose Calibrator	1 x 3 mL		x
A1026G	Glucose Calibrator	1 x 5 mL		x
B1020HC	HbA1c Calibrator Level - 1	1 x 0,5 mL	x	
B1021HC	HbA1c Calibrator Level - 2	1 x 0,5 mL	x	
B1022HC	HbA1c Calibrator Level - 3	1 x 0,5 mL	x	
B1023HC	HbA1c Calibrator Level - 4	1 x 0,5 mL	x	
B1024HC	HbA1c Control Level - 1	1 x 0,5 mL	x	
B1025HC	HbA1c Control Level - 2	1 x 0,5 mL	x	
B102HCG	HbA1c Control Set for HPLC	2 x 0,5 mL+2 x 0,5 mL+4 x 100 mL	x	
B102HCA	HbA1c Control Set for HPLC	2 x 0,5 mL+2 x 0,5 mL+ 4 x 20 mL	x	
B103HCA	HbA1c Calibrator Set for HPLC	2 x 0,5 mL+2 x 0,5 mL+ 4 x 20 mL	x	
B1034HCA	HbA1c HPLC Calibrator Level - 1	1 x 0,5 mL + 1 x 20 mL	x	
B1035HCA	HbA1c HPLC Calibrator Level - 2	1 x 0,5 mL + 1 x 20 mL	x	

General Product List

Ref. No:	PRODUCT NAME	Size	Lyophilized	Liquid Ready-To-Use
B1024HCG	HbA1c HPLC Control Level - 1	1 x 0,5 mL + 1 x 100 mL	x	
B1024HCA	HbA1c HPLC Control Level - 1	1 x 0,5 mL + 1 x 20 mL	x	
B1025HCG	HbA1c HPLC Control Level - 2	1 x 0,5 mL + 1 x 100 mL	x	
B1025HCA	HbA1c HPLC Control Level - 2	1 x 0,5 mL + 1 x 20 mL	x	
B1014H	HDL-LDL Calibrator	1 x 1 mL	x	
A1028I	IgE Calibrator Liquid	4 x 1 mL		x
A10281	IgE Control Level-1 Liquid	1 x 2 mL		x
A1029I	IgE Control Level-2 Liquid	1 x 2 mL		x
A10292I	IgE Control Set Liquid	1 x 2 mL+ 1 x 2 mL		x
A10302IR	Iron-Magnesium Calibrator	5 x 5 mL		x
A10303IR	Iron-Magnesium Calibrator	5 x 1 mL		x
B1017L	Lipase Calibrator Level - 1	1 x 2 mL	x	
B1018L	Lipase Calibrator Level - 2	1 x 2 mL	x	
B1019L	Lipase Control Level-1	1 x 2 mL	x	
B1020L	Lipase Control Level-2	1 x 2 mL	x	
A1032MA	Microalbumin Control Level-1	5 x 1 mL	x	
A1033MA	Microalbumin Control Level-2	5 x 1 mL	x	
A1034MP	Microprotein Calibrator	5 x 2 mL		x
A1035MP	Microprotein Control Level-1	5 x 2 mL		x
A1036MP	Microprotein Control Level-2	5 x 2 mL		x
B1045IM	Multi Immunoassay Control Level-1	1 x 5 mL	x	
B1046IM	Multi Immunoassay Control Level-2	1 x 5 mL	x	
B1047IM	Multi Immunoassay Control Level-3	1 x 5 mL	x	
A1037	Phosphorus Calibrator	1 x 3 mL		x
A10372	Phosphorus Calibrator	3 x 1 mL		x
A1038	Procalcitonin Calibrator Set (Level 1-5)	5 x 1 mL	x	
A1039	Procalcitonin Control (Level 1&2)	1 x 1 mL + 1 x 1 mL	x	
B1029R	RF Liquid Calibrator	1 x 2 mL		x
B1027R	RF Lyophilized Calibrator	1 x 2 mL	x	
B1028R	RF Lyophilized Control	1 x 2 mL	x	
B1030S	Specific Protein Calibrator Level -1	1 x 1 mL	x	
B1031S	Specific Protein Calibrator Level -2	1 x 1 mL	x	

General Product List

Ref. No:	PRODUCT NAME	Size	Lyophilized	Liquid Ready-To-Use
B1028S	Specific Protein Control Level -1	1 x 1 mL	x	
B1029S	Specific Protein Control Level -2	1 x 1 mL	x	
B1032E	Specific Protein-II Control Level -1	1 x 1 mL	x	
B1033E	Specific Protein-II Control Level -2	1 x 1 mL	x	
B1048T	TDM Control Level-1	1 x 5 mL	x	
B1049T	TDM Control Level-2	1 x 5 mL	x	
A10432TP	Total Protein Calibrator	3 x 1 mL		x
A1043TP	Total Protein Calibrator	1 x 3 mL		x
A10442TR	Triglyceride Calibrator	3 x 1 mL		x
A1044TR	Triglyceride Calibrator	1 x 3 mL		x
A10453U	UIBC Calibrator	3 x 1 mL		x
A1045U	UIBC Calibrator	1 x 5 mL		x
A10462UR	Urea Calibrator	3 x 1 mL		x
A1046UR	Urea Calibrator	1 x 3 mL		x
A10472UA	Uric Acid Calibrator	3 x 1 mL		x
A1047UA	Uric Acid Calibrator	1 x 3 mL		x
B103U	Urinalysis Control Set (N+P) (Liquid)	1 x 12 mL+1 x 12mL		x
B103U2	Urinalysis Control Set (N+P) (Liquid)	2 x 12 mL+2 x 12mL		x
B103BU	Urinalysis Control Set (N+P) (Liquid)	1 x 120 mL+1 x 120mL		x
B103BU2	Urinalysis Control Set (N+P) (Liquid)	2 x 120 mL+2 x 120mL		x
B1035U	Urinalysis Negative Control (Liquid)	12 mL		x
B1035BU	Urinalysis Negative Control (Liquid)	120 mL		x
B1034U	Urinalysis Positive Control (Liquid)	12 mL		x
B1034BU	Urinalysis Positive Control (Liquid)	120 mL		x
B1034BEU	Urine Chemistry Control Level-1	1 x 5 mL	x	
B1035BEU	Urine Chemistry Control Level-2	1 x 5 mL	x	
B103BEU	Urine Chemistry Control Set	1 x 5 mL+1 x 5mL	x	
B103BEU2	Urine Chemistry Control Set	2 x 5 mL+2 x 5mL	x	
A1048Z	Zinc Calibrator Liquid	5 x 3 mL		x
A1049Z	Zinc Control Level-1 Liquid	5 x 3 mL		x
A1050Z	Zinc Control Level-2 Liquid	5 x 3 mL		x

General Product List

Ref. No:	PRODUCT NAME	Size	Lyophilized	Liquid Ready-To-Use
B1028S	Specific Protein Control Level -1	1 x 1 mL	x	
B1029S	Specific Protein Control Level -2	1 x 1 mL	x	
B1032E	Specific Protein-II Control Level -1	1 x 1 mL	x	
B1033E	Specific Protein-II Control Level -2	1 x 1 mL	x	
B1048T	TDM Control Level-1	1 x 5 mL	x	
B1049T	TDM Control Level-2	1 x 5 mL	x	
A10432TP	Total Protein Calibrator	3 x 1 mL		x
A1043TP	Total Protein Calibrator	1 x 3 mL		x
A10442TR	Triglyceride Calibrator	3 x 1 mL		x
A1044TR	Triglyceride Calibrator	1 x 3 mL		x
A10453U	UIBC Calibrator	3 x 1 mL		x
A1045U	UIBC Calibrator	1 x 5 mL		x
A10462UR	Urea Calibrator	3 x 1 mL		x
A1046UR	Urea Calibrator	1 x 3 mL		x
A10472UA	Uric Acid Calibrator	3 x 1 mL		x
A1047UA	Uric Acid Calibrator	1 x 3 mL		x
B103U	Urinalysis Control Set (N+P) (Liquid)	1 x 12 mL+1 x 12mL		x
B103U2	Urinalysis Control Set (N+P) (Liquid)	2 x 12 mL+2 x 12mL		x
B103BU	Urinalysis Control Set (N+P) (Liquid)	1 x 120 mL+1 x 120mL		x
B103BU2	Urinalysis Control Set (N+P) (Liquid)	2 x 120 mL+2 x 120mL		x
B1035U	Urinalysis Negative Control (Liquid)	12 mL		x
B1035BU	Urinalysis Negative Control (Liquid)	120 mL		x
B1034U	Urinalysis Positive Control (Liquid)	12 mL		x
B1034BU	Urinalysis Positive Control (Liquid)	120 mL		x
B1034BEU	Urine Chemistry Control Level-1	1 x 5 mL	x	
B1035BEU	Urine Chemistry Control Level-2	1 x 5 mL	x	
B103BEU	Urine Chemistry Control Set	1 x 5 mL+1 x 5mL	x	
B103BEU2	Urine Chemistry Control Set	2 x 5 mL+2 x 5mL	x	
A1048Z	Zinc Calibrator Liquid	5 x 3 mL		x
A1049Z	Zinc Control Level-1 Liquid	5 x 3 mL		x
A1050Z	Zinc Control Level-2 Liquid	5 x 3 mL		x

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Product IFUs are
available at

www.beinquality.com.tr

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