



Quality Control Products & BIQAS Quality Assurance Catalog

- ▶ Independent QC
- ▶ Consolidated Controls
- ▶ Exceptional Performance

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About Autobio & Bioyuan



Autobio Diagnostics Co., Ltd (Hereinafter called Autobio) founded in 1998, headquartered in National Eco & Tech Zone, Zhengzhou. Autobio specialized in R&D, Production, Marketing, and Service of Clinical diagnostic products, especially covering Immunoassay, Microbiology, Clinical Chemistry, and Molecular.

Shanghai Bioyuan Biotech Co., Ltd. was established in Shanghai in March 2016, and in the same year Zhengzhou Bioyuan Biotech Co., Ltd. was established by Shanghai Bioyuan Biotech Co., Ltd.

Bioyuan core business includes the Research and Development, Production, and sales of Quality Control products and intelligent quality control systems, as well as quality control education and ISO15189 accreditation services.

Corporate Vision: To become an internationally influential medical laboratory quality management service provider.

Enterprise Purpose: Committed to improving the quality management level of clinical laboratories, ensuring that every clinical test result is accurate and reliable in serving human health.

Advantages

Bioyuan Quality Control

Bioyuan offers independent quality control products to improve efficiency, reduce errors while maintaining compliance and increasing workflow and cost saving.

Consolidation

Bioyuan offers multiple analytes in one vial which effectively increases efficiency, helping labs streamline their workflow.

Stability

A shelf-life up to 36 months at 2-8°C, and the freeze-drying process ensures the stability of the analyte during transportation.

Data Management

The data management software (BIOAS) includes multiple functions such as automatic target setting, QC rule recommendation, interactive charts, out of control statistics, analysis, prompts, and quality control operation record to provide strong assistance in simplifying laboratory quality control operations, accelerating laboratory quality control management.

Autobio & Bioyuan Controls

Infectious Disease

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
ID0101	Infectious Disease Control	20 x 1.0mL	Level 1	Liquid	≤-20°C	36 months	14 days	Human Serum
ID0102		20 x 1.0mL	Level 2					
ID0103		20 x 1.0mL	Level 3					
Analytes (1)								
Hepatitis B Virus Surface Antigen (HBsAg)								

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
ID0201	Infectious Disease Control	20 x 1.0mL	Level 1	Liquid	≤-20°C	36 months	14 days	Human Serum
ID0202		20 x 1.0mL	Level 2					
ID0203		20 x 1.0mL	Level 3					
Analytes (1)								
Hepatitis B Virus Surface Antibody (HBsAb)								

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
ID0301	Infectious Disease Control	20 x 1.0mL	Level 1	Liquid	≤-20°C	36 months	14 days	Synthetic
ID0302		20 x 1.0mL	Level 2					
ID0303		20 x 1.0mL	Level 3					
Analytes (1)								
Hepatitis B Virus e Antigen (HBeAg)								

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
ID0401	Infectious Disease Control	20 x 1.0mL	Level 1	Liquid	≤-20°C	36 months	14 days	Human Serum
ID0402		20 x 1.0mL	Level 2					
ID0403		20 x 1.0mL	Level 3					
Analytes (1)								
Hepatitis B Virus e Antibody (HBeAb)								

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
ID0501	Infectious Disease Control	20 x 1.0mL	Level 1	Liquid	≤ -20°C	36 months	14 days	Human Serum
ID0502		20 x 1.0mL	Level 2					
ID0503		20 x 1.0mL	Level 3					
Analytes (1)								
Hepatitis B Virus Core Antibody (HBcAb)								
</								

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
TOR0101	Infectious Disease Control (Neonatal)	10 × 1.0mL	Level 1	Lyophilized	2 °C~8 °C	36 months	14 days	Bovine Serum
TOR0102		10 × 1.0mL	Level 2					
TOR0103		10 × 1.0mL	Level 3					
TOR0104		10 × 1.0mL	Level 4					
TOR0105		10 × 1.0mL	Level 5					
TOR0106		10 × 1.0mL	Level 6					
TOR0107		10 × 1.0mL	Level 7					

Analytes (7)		
Cytomegalovirus IgG Antibody (CMV IgG)	Herpes Simplex Virus Type 2 IgG Antibody (HSV-2 IgG)	Toxoplasma Gondii IgG Antibody (TOX IgG)
Herpes Simplex Virus Type 1 IgG Antibody (HSV-1 IgG)	Rubella Virus IgG Antibody (RV IgG)	

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
TOR0201	Infectious Disease Control (Neonatal)	10 × 1.0mL	Level 1	Lyophilized	2 °C~8 °C	36 months	14 days	Human Serum
TOR0202		10 × 1.0mL	Level 2					
TOR0203		10 × 1.0mL	Level 3					
TOR0204		10 × 1.0mL	Level 4					
TOR0205		10 × 1.0mL	Level 5					
TOR0206		10 × 1.0mL	Level 6					
TOR0207		10 × 1.0mL	Level 7					
TOR0208		10 × 1.0mL	Level 8					
TOR0209		10 × 1.0mL	Level 9					

Analytes (9)		
Cytomegalovirus IgM Antibody (CMV IgM)	Herpes Simplex Virus Type 2 IgM Antibody (HSV-2 IgM)	Toxoplasma Gondii IgM Antibody (TOX IgM)
Herpes Simplex Virus Type 1 IgM Antibody (HSV-1 IgM)	Rubella Virus IgM Antibody (RV IgM)	

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
BIDI0101	Infectious Disease Control	6 x 3.0mL	Level 1	Liquid	≤ -20°C	30 months	14 days	Bovine Serum
BIDI0102		6 x 3.0mL	Level 2					
BIDI0103		6 x 3.0mL	Level 3					
BIDI0104		6 x 3.0mL	Level 4					
Analytes (5)								
Hepatitis B Virus e Antigen (HBeAg)			Hepatitis C Virus Antibodies (Anti HCV)			Treponema Pallidum Antibodies (Anti TP)		
Hepatitis B Virus Surface Antigen (HBsAg)			Human Immunodeficiency Virus Antibodies (Anti HIV)					

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
BIDI0101	Infectious Disease Control	6 x 3.0mL	Level 1	Liquid	≤ -20°C	30 months	14 days	Bovine Serum
BIDI0102		6 x 3.0mL	Level 2					
BIDI0103		6 x 3.0mL	Level 3					
BIDI0104		6 x 3.0mL	Level 4					
Analytes (4)								
Hepatitis B Virus Core Antibodies (Anti HBc)		Hepatitis B Virus Surface Antibodies (Anti HBs)			Human Immunodeficiency Virus p24 Antigen (HIV p24 Ag)			
Hepatitis B Virus e Antibodies (Anti HBe)								

Immunoassay

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
TM0201	Tumor Marker Control (Immunoassay)	6 x 3.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	14 days CA15-3 (7 days)	Human Serum
TM0202		6 x 3.0mL	Level 2					
TM0203		6 x 3.0mL	Level 3					
Analytes (9)								
	AFP			CA19-9			Ferritin (Ferr)	
	CA125			CA50			Prostate Specific Antigen (tPSA)	
	CA15-3			CEA			free Prostate Specific Antigen (fPSA)	

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
TM0301	Tumor Marker Control II (Immunoassay)	6 x 3.0mL	Level 1	Lyophilized	2 °C~8 °C	36 months	14 days NSE (1 day)	Human Serum
TM0302		6 x 3.0mL	Level 2					
TM0303		6 x 3.0mL	Level 3					

Analytes (20)								
Alpha Fetoprotein (AFP)			Carcinoembryonic Antigen (CEA)			Pepsinogen II (PGII)		
Carbohydrate Antigen 125 (CA125)			Cytokeratin 19 fragment (CYFRA21-1)			Prostate Specific Antigen (tPSA)		
Carbohydrate Antigen 15-3 (CA15-3)			Ferritin (Ferr)			Squamous Cell Carcinoma Antigen (SCCA)		
Carbohydrate Antigen 19-9 (CA19-9)			free Prostate Specific Antigen (fPSA)			Thyroglobulin (TG)		
Carbohydrate Antigen 242 (CA242)			Human Epididymal Protein 4 (HE4)			β2-Microglobulin (β2-MG)		
Carbohydrate Antigen 50 (CA50)			Neuron Specific Enolase (NSE)			β- Human Chorionic Gonadotropin (β-HCG)		
Carbohydrate Antigen 72-4 (CA72-4)			Pepsinogen I (PGI)					

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix				
HM0201	Endocrine Control (Immunoassay)	6 x 3.0mL	Level 1	Lyophilized	2 °C~8 °C	36 months	14 days	Human Serum				
HM0202		6 x 3.0mL	Level 2				C-P (4 hrs)					
							IGF-1 (3 days)					
							INS (7 days)					
HM0203		6 x 3.0mL	Level 3			HGH (10 days)						
						ACTH (test						
						immediately)						
Analytes (25)												

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
PCT0101	Calcitonin Control (Immunoassay)	10 × 1.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	3 days	Human Serum
PCT0102		10 × 1.0mL	Level 2					
PCT0103		10 × 1.0mL	Level 3					
PCT0104		10 × 1.0mL	Level 4					
Analytes (1)								

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
CRP0101	C-reactive Protein control (Immunoassay)	10 × 1.0mL	Level 1	Liquid	≤0°C	24 months	14 days	Human Serum
CRP0102		10 × 1.0mL	Level 2					
CRP0103		10 × 1.0mL	Level 3					
CRP0104		10 × 1.0mL	Level 4					
CRP0105		10 × 1.0mL	Level 5					
Analytes (1)								

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
HF0101	Liver Fibrosis Markers Controls (Immunoassay)	5 x 3.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	14 days	Human Serum
HF0102		5 x 3.0mL	Level 2					
HF0103		5 x 3.0mL	Level 3					
HF0104		5 x 3.0mL	Level 4					
HF0105		5 x 3.0mL	Level 5					
HF0106		5 x 3.0mL	Level 6					
Analytes (5)								

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
AMH0101	Anti-Mullerian Hormone Control (Immunoassay)	6 x 1.0mL	Level 1	Lyophilized	2 °C~8 °C	28 months	14 days	Human Serum
AMH0102		6 x 1.0mL	Level 2					
AMH0103		6 x 1.0mL	Level 3					
Analytes (1)								

Anti-mullerian Hormone (AMH)

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
DD0101	D-Dimer Control (Immunoassay)	10 x 1.0 mL	Level 1	Liquid	≤0°C	24 months	14 days	Human Serum
DD0102		10 x 1.0 mL	Level 2					
DD0103		10 x 1.0 mL	Level 3					
DD0104		10 x 1.0 mL	Level 4					
DD0105		10 x 1.0 mL	Level 5					
Analytes (1)								

D-dimer

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
BMC0101	Inflammatory Marker Control (Immunoassay)	6 x 2.0mL	Level 1	Lyophilized	2 °C~8 °C	26 months	7 days	Human Serum
BMC0102		6 x 2.0mL	Level 2				IL-6(1 day) PCT(3 days)	
BMC0103		6 x 2.0mL	Level 3					
Analytes (6)								

C-reactive Protein (CRP)

Lipoprotein Associated Phospholipase A2 (Lp PLA2)

PCT (3 days)

IL-6 (1 day)

Myeloperoxidase (MPO)

Serum Amyloid A (SAA)

Clinical Chemistry

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
CB0101	Clinical Chemistry Control	6 x 5.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	7 days	Human Serum
CB0102		6 x 5.0mL	Level 2				TBIL, DBIL, ALT remain stable for 3 days	
CB0103		6 x 5.0mL	Level 3					
Analytes (36)								

Alanine Aminotransferase (ALT)

Creatinine (Cre)

Phosphorus (P)

Albumin (ALB)

Direct Bilirubin(DBIL)

Potassium(K)

Alkaline Phosphatase (ALP)

Gamma Glutamyltransferase (GGT)

Sodium (Na)

Alpha-Hydroxybutyrate Dehydrogenase (HBDH)

Glucose (Glu)

Total Bile Acid (TBA)

Amylase (AMY)

High Density Lipoprotein Cholesterol (HDL-C)

Total Bilirubin (TBIL)

Asparaginic Acid (AST)

Iron (Fe)

Total Cholesterol (TC)

Calcium (Ca)

Lactic Acid (LAC)

Total Protein (TP)

Carbon Dioxide (CO2)

Lactic Dehydrogenase(LDH)

Total Iron Binding Capacity (TIBC)

Chlorume (Cl)

Lipase (LPS)

Triglyceride (TG)

Cholinesterase(CHE)

Lithium (Li)

Urea

Copper (Cu)

Low Density Lipoprotein Cholesterol (LDL-C)

Uric Acid (UA)

Creatine Kinase (CK)

Magnesium (Mg)

Zinc (Zn)

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
LIP0101	Lipid Control (Clinical Chemistry)	6 x 1.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	7 days	Human Serum
LIP0102		6 x 1.0mL	Level 2					
LIP0103		6 x 1.0mL	Level 3					
Analytes (7)								

Apo A1 (Apo A-1)

Lipoprotein a (Lp (a))

Total Cholesterol (TC)

Apo B (Apo B)

Low-density Lipoprotein Cholesterol (LDL-C)

Triglycerides (TG)

High-density Lipoprotein Cholesterol (HDL-C)

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
SP0101	Protein Chemistry Control (Clinical Chemistry)	6 x 1.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	10 days	Human Serum
SP0102		6 x 1.0mL	Level 2					
SP0103		6 x 1.0mL	Level 3					
Analytes (22)								

Albumin (ALB)	Immunoglobulin A (IgA)	Retinol Binding Protein (RBP)
Anti Streptolysin O (ASO)	Immunoglobulin E (IgE)	Rheumatoid factor (RF)
C-Reactive Protein (CRP)	Immunoglobulin G (IgG)	Total Protein (TP)
Complement C3 (C3)	Immunoglobulin M (IgM)	Transferrin (TRF)
Complement C4 (C4)	Kappa Light Chain (κ- LC)	α1 Antitrypsin (AAT)
Cystatin C (CysC)	Lambda Light Chain (λ- LC)	α1-Microglobulin (α1-MG)
Ferritin (Ferr)	Prealbumin (PAB)	β2-Microglobulin (β2-MG)
Haptoglobin (HPT)		

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
GLU0101	Blood Glucose Control	6 x 1.0mL	Level 1	Liquid	2 °C~8 °C	26 months	28 days	Synthetic
GLU0102		6 x 1.0mL	Level 2					
GLU0103		6 x 1.0mL	Level 3					
Analytes (1)								

Glucose (Glu)

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
GA0101	Glycated Albumin Control	6 x 1.0mL	Level 1	Lyophilized	2 °C~8 °C	26 months	14 days	Human Serum
GA0102		6 x 1.0mL	Level 2					
GA0103		6 x 1.0mL	Level 3					
Analytes (1)								

Glycated Albumin (GA)

Diabetes

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
TH0101	Diabetes Control	6 x 0.5mL	Level 1	Lyophilized	2 °C~8 °C	24 months	14 days	Human Whole Blood
TH0102		6 x 0.5mL	Level 2					
Analytes (1)								

Glycated Hemoglobin (HbA1c)

Cardiac Marker

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
CM0101	Cardiac Marker Control	5 x 2.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	7 days	Human Serum
CM0102		5 x 2.0mL	Level 2				BNP, NT	
CM0103		5 x 2.0mL	Level 3				proBNP(3 days)	
Analytes (11)								

Albumin (ALB)	Ketone Bodies (KET)	Specific Gravity (SG)
Bilirubin (BIL)	Nitrite (NIT)	Urobilinogen (URO)
Blood (BLD)	pH (pH)	White Blood Cells (LEU)
Glucose (GLU)		

Coagulation

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
NX0101	Coagulation Controls	6 x 1.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	48 hours	Human Plasma
NX0102		6 x 1.0mL	Level 2					
NX0103		6 x 1.0mL	Level 3					
Analytes (5)								
Prothrombin Time (PT)			Activated Partial Thromboplastin Time (APTT)			Thrombin Time (TT)		
Fibrinogen (FIB)			Antithrombin III (AT III)					

Urine Chemistry

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
UCA0101	Urine Chemistry Controls	6 × 10.0mL	Level 1	Liquid	2 °C~8 °C	12 months	7 days	Synthetic
UCA0102		6 × 10.0mL	Level 2					
Analytes (10)								
	Bilirubin (BIL)			Blood (BLD)			Nitrite (NIT)	
	Ketone Bodies (KET)			pH (pH)			White Blood Cells (LEU)	
	Glucose (GLU)			Urobilinogen (URO)			Specific Gravity (SG)	
	Albumin (ALB)							

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
UCA0101	Urine Chemistry Controls	6 x 10.0mL	Level 1	Liquid	2 °C~8 °C	18 months	14 days	Mixture of Human Serum and Bovine Serum
UCA0102		6 x 10.0mL	Level 2					
Analytes (10)								
	Specific Gravity (SG)			pH				Albumin (ALB)
	Glucose (GLU)			Ketone Bodies (KET)				Blood (hemoglobin) (BLD)
	Nitrite (NIT)			Bilirubin (BIL)				Urobilinogen (URO)
	White Blood Cells (LEU)							

Unassayed - Autobio & Bioyuan Controls

Infectious Disease

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FID1001	Infectious Disease	10 × 1.0mL	Level 1	Liquid	≤0°C	24 months	14 days	Synthetic
FID1002		10 × 1.0mL	Level 2					
FID1003		10 × 1.0mL	Level 3					
Analytes (1)								

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FID1201	Infectious Disease	10 × 1.0mL	Level 1	Liquid	≤-20°C	24 months	14 days	Synthetic
FID1202		10 × 1.0mL	Level 2					
FID1203		10 × 1.0mL	Level 3					
Analytes (1)								

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FID1101	Infectious Disease	10 × 1.0mL	Level 1	Liquid	≤-20°C	24 months	14 days	Synthetic
FID1102		10 × 1.0mL	Level 2					
FID1103		10 × 1.0mL	Level 3					
Analytes (1)								

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FID1401	Infectious Disease	10 × 1.0mL	Level 1	Liquid	≤ -20°C	24 months	14 days	Synthetic
FID1402		10 × 1.0mL	Level 2					
FID1403		10 × 1.0mL	Level 3					
Analytes (1)								

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FID1500	Infectious Disease	10 × 3.0mL	negative	Liquid	≤-20°C	24 months	14 days	Human Serum
Analytes (14)								

Hepatitis A Virus IgM Antibody (Anti HAV IgM)	Hepatitis B Virus Surface Antigen (HBsAg)	Hepatitis E Virus IgM Antibody (Anti HEV IgM)
Hepatitis B Virus Core Antibody (Anti HBc)	Hepatitis B Virus e Antibody (Anti HBe)	Human Immunodeficiency Virus Antibody (Anti HIV)
Hepatitis B Virus Core Antibody IgM (Anti HBc IgM)	Hepatitis B Virus e Antigen (HBeAg)	Syphilis Non-specific Antibody (TRUST)
Hepatitis B Virus Pre S1 Antigen (HBV-PreS1 Ag)	Hepatitis C Virus Antibody (Anti HCV)	Syphilis Specific Antibody (Anti TP)
Hepatitis B Virus Surface Antibody (HBsAb)	Hepatitis E Virus IgG Antibody (Anti HEV IgG)	

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FID0701	Infectious Disease	10 × 0.5mL	Level 1	Liquid	≤-20°C	24 months	14 days	Human Serum
FID0702		10 × 0.5mL	Level 2					
FID0703		10 × 0.5mL	Level 3					
Analytes (1)								

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FHS0100	Infectious Dsease Control	10 × 1.5mL	negative	Liquid	≤-20 °C	24 months	7 days	Synthetic
Analytes (3)								

Hepatitis B Virus Deoxyribonucleic Acid (HBV DNA)		Hepatitis C Virus Ribonucleic Acid (HCV RNA)		Human Immunodeficiency Virus Type I Ribonucleic Acid (HIV-1 RNA)				
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Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FHS0101	Infectious Disease Control	10 × 1.0mL	Level 1	Liquid	≤-20 °C	24 months	7 days	Synthetic
FHS0102		10 × 1.0mL	Level 2					
FHS0103		10 × 1.0mL	Level 3					
FHS0104		10 × 1.0mL	Level 4					
FHS0105		10 × 1.0mL	Level 5					
FHS0106		10 × 1.0mL	Level 6					
Analytes (1)								

Novel Coronavirus Nucleic Acid Ribonucleic Acid (2019 nCoV RNA)								
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Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FNCoV0101	Infectious Dsease Control	10 × 1.0mL	Level 1	Liquid	≤-20 °C	24 months	7 days	Bovine Serum
FNCoV0102		10 × 1.0mL	Level 2					
Analytes (1)								

2019 nCoV IgG Antibody								
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Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FNCoV0201	Infectious Disease Control	10 × 1.0mL	Level 1	Liquid	≤ -20 °C	24 months	7 days	Human Serum
FNCoV0202		10 × 1.0mL	Level 2					
Analytes (1)								

2019 nCoV IgM Antibody								
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Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FNCoV0301	Infectious Dsease Control	6 x 1.0mL	Level 1	Liquid	2 °C~8 °C	12 months	10 days	Synthetic
FNCoV0302		6 x 1.0mL	Level 2					
FNCoV0303		6 x 1.0mL	Level 3					
Analytes (1)								

2019 nCoV Ag								
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Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FHxD0101	Infectious Dsease Control	10 × 1.0mL	Level 1	Liquid	≤-15 °C	24 months	14 days	Human Serum
FHxD0102		10 × 1.0mL	Level 2					
FHxD0103		10 × 1.0mL	Level 3					

Analytes (11)								
Adenovirus (AD)			Human Parainfluenza Virus 2 (HPV-2)			Mycoplasma Pneumoniae (MP)		
Chlamydia Pneumoniae (CP)			Human Parainfluenza Virus 3 (HPV-3)			Rescued Human Virus (RhV)		
Human Metapneumovirus (HMPV)			Influenza A Virus (Flu A)			Respiratory SyncytialVirus (RSV)		
Human Parainfluenza Virus 1 (HPV-1)			Influenza B Virus (Flu B)					

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FID0101	Infectious Disease	6 x 3.0mL	Negative	Liquid	≤-15 °C	36 months	14 days	Bovine Serum
Analytes (9)								

Hepatitis B Virus Core Antibody (Anti HBc)			Hepatitis B Virus e Antibody (Anti HBe)			Human Immunodeficiency Virus Antibody (Anti HIV)		
Hepatitis B Virus Surface Antibodies (Anti HBs)			Hepatitis B Virus e Antigen (HBeAg)			Human Immunodeficiency Virus p24 Antigen (HIV p24 Ag)		
Hepatitis B Virus Surface Antigen (HBsAg)			Hepatitis C Virus Antibody (Anti HCV)			Treponema Pallidum Antibody (Anti TP)		

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FID0201	Infectious Disease	6 x 3.0mL	Level 1	Liquid	≤-15 °C	36 months	14 days	Bovine Serum
FID0202		6 x 3.0mL	Level 2					
FID0203		6 x 3.0mL	Level 3					
FID0204		6 x 3.0mL	Level 4					
FID0205		6 x 3.0mL	Level 5					
FID0206		6 x 3.0mL	Level 6					
FID0207		6 x 3.0mL	Level 7					
FID0208		6 x 3.0mL	Level 8					
FID0209		6 x 3.0mL	Level 9					

Analytes (5)		
Hepatitis B Virus Surface Antigen (HBsAg)	Hepatitis CVirus Antibodies (Anti HCV	Treponema Pallidum Antibodies (Anti TP)
Hepatitis B Virus e Antigen (HBeAg)	Human ImmunodeficiencyVirus Antibodies (Anti HIV)	

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FID0301	Infectious Disease	6 x 3.0mL	Level 5	Liquid	≤-15 °C	36 months	14 days	Bovine Serum
FID0302		6 x 3.0mL						
FID0303		6 x 3.0mL						
FID0304		6 x 3.0mL						
FID0305		6 x 3.0mL						
FID0306		6 x 3.0mL						
FID0307		6 x 3.0mL						
FID0308		6 x 3.0mL						
FID0309		6 x 3.0mL						

Analytes (4)		
Hepatitis B Virus Core Antibodies (Anti HBc)	Hepatitis B Virus e Antibodies (Anti HBe)	Human ImmunodeficiencyVirus p24 Antigen (HIV p24 Ag)
Hepatitis B Virus Surface Antibodies (Anti HBs)		

Cardiac Marker

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FBNP0101	Cardiac Marker Control	6 x 1.0mL	Level 1	Lyophilized	2 °C-8 °C	24 months	3 days	Human Serum
FBNP0102		6 x 1.0mL	Level 2					
FBNP0103		6 x 1.0mL	Level 3					

Analytes (2)								
B-type Natriuretic Peptide (BNP)			N-terminal B-type Natriuretic Peptide Precursor (NT proBNP)					

Immunoassay

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FTM0101	Tumor Marker control II	6 x 3.0mL	Level 1	Lyophilized	2 °C-8 °C	24 months	Most projects remain stable for 14 days	Human Serum
FTM0102		6 x 3.0mL	Level 2					
FTM0103		6 x 3.0mL	Level 3					

Analytes (21)								
Alpha Fetoprotein (AFP)			Carcinoembryonic Antigen (CEA)			Pepsinogen I (PGI)		
Carbohydrate Antigen 125 (CA125)			Cytokeratin 19 Fragment (Cyfra21-1)			Pepsinogen II (PGII)		
Carbohydrate Antigen 15-3 (CA15-3)			Ferritin (Ferr)			Prostate Specific Antigen (PSA)		
Carbohydrate Antigen 19-9 (CA19-9)			free Prostate Specific Antigen (fPSA)			Squamous Cell Carcinoma Antigen (SCCA)		
Carbohydrate Antigen 242 (CA242)			Gastrin Releasing Peptide Precursor (proGRP)			Thyroid Globulin (TG)		
Carbohydrate Antigen 50 (CA50)			Human Epididymal Protein 4 (HE4)			β 2-Microglobulin(β 2-MG)		
Carbohydrate Antigen 72-4 (CA72-4)			Neuron Specific Enolase (NSE)			β- Human Chorionic Gonadotropin (β- HCG)		

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FPS0101	Reproductive Control	6 x 1.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	14 days	Human Serum
FPS0102		6 x 1.0mL	Level 2					
FPS0103		6 x 1.0mL	Level 3					
Analytes (4)								
β- Human Chorionic Gonadotropin(β- HCG)			free β Human chorionic gonadotropin (f)- β- HCG			Pregnancy Alpha Fetoprotein (P-AFP)		
free Estriol (uE3)								

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FSAA0101	Inflammatory Marker Control	6 x 1.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	7 days	Human Serum
FSAA0102		6 x 1.0mL	Level 2					
FSAA0103		6 x 1.0mL	Level 3					
Analytes (1)								
Serum Amyloid A (SAA)								

Clinical Chemistry

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FCYC0101	Chemistry Control	6 x 1.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	14 days	Human Serum
FCYC0102		6 x 1.0mL	Level 2					
FCYC0103		6 x 1.0mL	Level 3					
Analytes (1)								
Cystatin C (CysC)								

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FRBP0101	Chemistry Control	6 x 1.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	14 days	Human Serum
FRBP0102		6 x 1.0mL	Level 2					
FRBP0103		6 x 1.0mL	Level 3					
Analytes (1)								
Retinol Binding Protein (RBP)								

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FAFU0101	Chemistry Control	6 x 1.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	14 days	Human Serum
FAFU0102		6 x 1.0mL	Level 2					
FAFU0103		6 x 1.0mL	Level 3					
Analytes (1)								
A-L-Fucosidase (AFU)								

Part Number	Product Category	Bottles & size	Levels	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FCB0201	Chemistry Control	6 x 3.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	Free fatty acids (NEFA) and mitochondrial aspartate aminotransferase (mAST) can remain stable for 3 days, while other items can remain stable for 10 days	Human Serum
FCB0202		6 x 3.0mL	Level 2					
FCB0203		6 x 3.0mL	Level 3					
Analytes (20)								

5'-Nucleotidase (5'-NT)	Glutamate Dehydrogenase (GLDH)	Pancreatic Amylase (P-AMY)
5-dehydrated Glucose Alcohol (1,5-AG)	Glycyrrhetic Acid (CG)	Sialic Acid (SA)
Adenosine Deaminase (ADA)	Lactate (LAC)	Total Bile Acid (TBA)
Anti Cyclic Citrullinated Peptide Antibody (anti CCP)	Lactate Dehydrogenase Isoenzyme 1 (LDH1)	free Fatty Acids (NEFA)
Carbon Dioxide (CO2)	Leucine Aminopeptidase (LAP)	α-L-fucosidase (AFU)
Cystatin C (CysC)	Lipoprotein (a) (Lp (a))	β-Hydroxybutyric Acid (D3H)
Fructosamine (FMN)	Mitochondrial Aspartate Aminotransferase (mAST)	

Coagulation

Part Number	Product Category	Bottles & Size	Level	Physical Status	Storage	Shelf Life	Open Vial Stability	Matrix
FNX0201	Coagulation Control	10 × 1.0mL	Level 1	Lyophilized	2 °C~8 °C	24 months	48h	Human Plasma
FNX0202		10 × 1.0mL	Level 2					
FNX0203		10 × 1.0mL	Level 3					
Analytes (7)								

Activated Partial Thromboplastin Time (APTT)	Fibrinogen (FIB)	Prothrombin Time (PT)
Antithrombin III (AT III)	Fibrinogen Degradation products (FDP)	Thrombin Time (TT)
D-dimer (D-dimer)		

BIQAS Quality Control Software

BIQAS quality control software is tailored to the actual needs of laboratory quality management work. The software adopts a B/S architecture mode, which simplifies the load on client computers while reducing the cost and workload of system maintenance and upgrade, providing a more convenient and optimized human-computer interaction experience for the laboratory.



01 Multidimensional QC data analysis

a | QC Chart

- Qualitative/Quantitative Quality Control Chart
- Cumulative Sum Control Chart
- Patient-Based Real Time QC
- Youden Chart
- Westgard Method Decision Chart
- Power Function Graphs
- Out of Control Analysis Report

b | QC Management

- Data monitoring
- Multiple L-J chart
- Performance Verification
- Retest Reserved Sample
- QC Screen

03 Comprehensive QC Traceability Log

- Behavior log
- Result modification log
- Information modification Log
- Patient result evaluation log

02 Various QC Report Statistics

- QC graphic data analysis report
- Monthly CV Statistical Analysis Report
- QC Rate Analysis Report
- Monthly Quality Control Data Analysis Report
- Out-of-control Record Statistical Analysis Report

04 Flexible QC settings

- Multiple targets setting methods.
- Multiple QC rule selection methods
- Customize out-of-control information settings

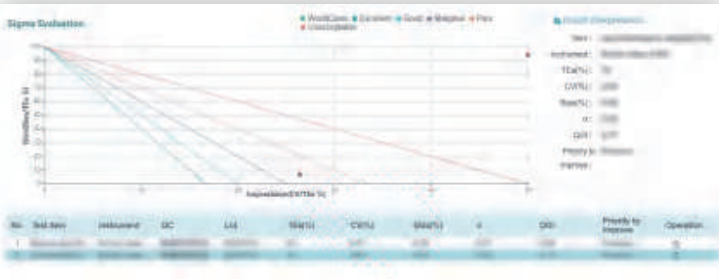
05 Intelligent user management

- Laboratory User Role Management
- Laboratory User Role Assignment
- Laboratory user login query

Features

Multi L-J chart

This fuction uses L-J plot overlay for project, quality control, and instrument testing comparisons to help evaluate the consistency between different instruments in the same project.

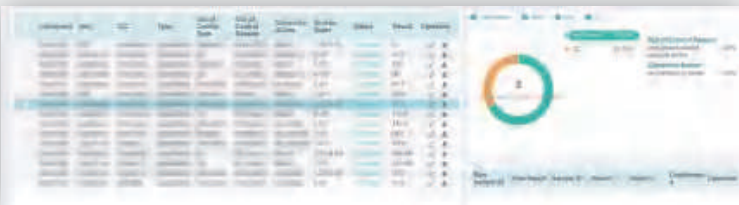


Westgard method decision chart

This function uses the Six Sigma management to provide the lab with suitable QC rules.

Out-of-Control Statistics and Analysis

Built-in common out-of-control information to get rid of manual filling. Record the process of losing control and evaluate patient samples for later statistics, analysis, and improvement.



Data Monitoring

This function can display real-time QC status of different departments such as in control, out of control, and warnings. Assist the laboratory in quickly identifying abnormal items for targeted handling.

Autobio & Bioyuan Control References

Product Category	Product Analyte	System						
		Autobio	Roche	Beckman	Abbott	Siemens	Canon	Other Platforms
Infectious Disease Control	HBsAg	AutoLumo Series						
	HBsAb	AutoLumo Series						
	HBeAg	AutoLumo Series						
	HBeAb	AutoLumo Series						
	HBcAb	AutoLumo Series						
	Anti-HIV	AutoLumo Series						
	Anti-HCV	AutoLumo Series						
	Anti-TP	AutoLumo Series						
	TOX IgG, HSV-1 IgG, CMV IgG, HSV-2 IgG, RV IgG	AutoLumo Series						Autobio Elisa
	TOX IgM, HSV-1 IgM, CMV IgM, HSV-2 IgM, RV IgM	AutoLumo Series						Autobio Elisa
	Anti-HIV, Anti-HCV, Anti-TP, HBsAg, HBeAg	AutoLumo Series						
	HIV p24 Ag, Anti HBs, Anti Hbe, Anti HBc	AutoLumo Series						
Tumor Marker Control	AFP, CEA, CA125, CA15-3, CA19-9, CA50, Ferr, tPSA, and fPSA	AutoLumo Series						
	AFP, CEA, CA125, CA15-3, CA19-9, CA50, Ferr, tPSA, fPSA, β2-MG, CA72-4, Cyfra21-1, SCCA, CA242, NSE, PGI, PGII, HE4, β- HCG, TG	AutoLumo Series	Cobas e601,c701	DXI 800	Architect i2000SR	Advia Centaur XP		Maglumi 4000Plus, Luminex 200
Clinical Chemistry Control	K, Na, CL, Ca, P, Mg, Li, Cu, Zn, Fe, TIBC, GLU, Urea, UA, Cre, TBIL, DBIL, TBA, TC, TG, HDL-C, LDL-C, ALB, TP, ALT, AST, ALP, Amy, CK, LDH, GGT, HBDH, LPS, CHE, CO2, LAC		Cobas c501, c502, c701	AU5800, AU5400, AU680			TBA-120FR	
Lipid Control	Apo A-1, Apo B, TG, HDL-C, LDL-C, TC, Lp (a)		Cobas c501, c701	AU5800, AU5400, AU680			TBA-120FR	

Product Category	Product Analyte	System						
		Autobio	Roche	Beckman	Abbott	Siemens	Canon	Other Platforms
Protein Chemistry Control	PAB, IgE, IgA, IgG, IgM, CRP, RBP, α1-MG, β2-MG, RF, TRF, C4, C3, ASO, ALB, TP, λ- LC, κ- L, AAT, HPT, Ferr, CysC		Cobas c501, c502, c701, e601	AU5800, AU680		Siemens BN ProSpec	TBA-120FR	
Endocrine Control	FSH, PRL, LH, P, T, E2, β- HCG, TSH, T3, T4, FT3, FT4, TG, INS, C-peptide, IGF-1, HGH, ALD, Cortisol, ACTH, 17α- OHP, DHEA-S, FA, VB12, 25-OH VD	AutoLumo Series	Cobas e601,c701	DXI 800	Architect i2000SR	Advia Centaur XP		Autobio Elisa
Diabetes Control	HbA1c	AutoLumo Series	Cobas c501,	AU680				Bio-Rad D-10, ARKRAY HA-8180, Lifotronic H9
Cardiac Marker Control	CK, CK-MB, cTnI, cTnT, CRP,BNP, MYO, NT-proBNP, HCY,H-FABP, Dig	AutoLumo Series	Cobas c501, e601	Access 2, AU680	Architect i2000SR		TBA-120FR	Getein1100, Wondfo FS-112, i-CHROMATM Reader
Calcitonin Control	PCT	AutoLumo Series	Cobas e601					Wondfo FS-112, i-CHROMATM Reader, Maglumi 2000
C-reactive Protein Control	CRP	AutoLumo Series	Cobas c501					Getein1100, Wondfo FS-112, i-CHROMATM Reader
Liver Fibrosis Markers Controls	HA, LN, PIIINP, Col IV, CG	AutoLumo Series						
Coagulation Control	PT, APTT, TT, FIB, ATIII							Sysmex CS-5100, Sysmex CS-2000i, STA-R Evolution, Werfen ACL TOP 750
Urine Chemistry Control	BIL, BLD, NIT, KET, pH, LEU, GLU, URO, SG, ALB							Dirui H-500, URIT-1600

Product Category	Product Analyte	System						
		Autobio	Roche	Beckman	Abbott	Siemens	Canon	Other Platforms
Anti-Mullerian Hormone Control	AMH	AutoLumo Series	Cobas e601					Sysmex CS-2000i, Wondfo FS-112, Getein FIA8699
D-Dimer Control	D-dimer		Cobas c501				TBA-2000 FR, TBA-FX8	
Blood Glucose Control	GLU		Blood glucose meter		Blood glucose meter			Aikang blood glucose meter
Glycated Albumin Control	GA			AU680			TBA-120FR	
Urine Chemistry Controls	SG, Ph, ALB, GLU, KET, BLD, NIT, BIL, URO, LEU							
Inflammatory Marker Control	PCT, CRP, SAA, MPO, IL-6, Lp PLA2	AutoLumo Series	Cobas e601	Access 2, AU680			TBA-120FR, TBA-FX8	Wondfo FS-112