

Abbott Alinity/ Architect c/ci Systems®

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Albumin	g/l	39.9	33.9	45.9	3.00	6.00	Bromocresol Green
	g/dl	3.99	3.39	4.59	0.30	0.60	
	g/l	40.2	34.2	46.2	3.00	6.00	Bromocresol Purple
	g/dl	4.02	3.42	4.62	0.30	0.60	
Alkaline Phosphatase	U/l	159	135	183	12.00	24.00	AMP optimised to IFCC 37°C
	U/l	145	123	167	11.00	22.00	AMP optimised to NVKC/SFBC 37°C
	U/l	155	132	178	11.50	23.00	AMP non-optimised 37°C
ALT (GPT)	U/l	34	28	40	3.00	6.00	Tris buffer without P5P 37°C
Amylase Pancreatic	U/l	67	57	77	5.00	10.00	Immunoinhibition EPS substrate 37°C
Amylase Total	U/l	99	84	114	7.50	15.00	Abbott Architect Non-IFCC Cal. 37°C
	U/l	111	95	127	8.00	16.00	Abbott Architect IFCC Cal. 37°C
AST (GOT)	U/l	36	29	43	3.50	7.00	Tris buffer without P5P 37°C
Bicarbonate	mmol/l	15.2	12.0	18.4	1.60	3.20	Enzymatic
Bile Acids	µmol/l	25.6	20.5	30.7	2.55	5.10	Enzymatic Colorimetric
Bilirubin Direct	µmol/l	18.6	14.7	22.5	1.95	3.90	Diazo with Sulphanilic Acid
	mg/dl	1.09	0.860	1.32	0.12	0.23	
	µmol/l	18.6	14.7	22.5	1.95	3.90	Diazo with Dichloroaniline (DCA)
	mg/dl	1.09	0.860	1.32	0.12	0.23	
Bilirubin Total	µmol/l	26.0	20.5	31.5	2.75	5.50	Diazo with Dichloroaniline (DCA)
	mg/dl	1.52	1.20	1.84	0.16	0.32	
	µmol/l	27.0	21.3	32.7	2.85	5.70	Diazo with Sulphanilic Acid
	mg/dl	1.58	1.25	1.91	0.17	0.33	

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Bilirubin Total	µmol/l	25.4	20.1	30.7	2.65	5.30	Dichlorophenyl Diazonium (DPD)
	mg/dl	1.49	1.18	1.80	0.16	0.31	
	µmol/l	25.7	20.3	31.1	2.70	5.40	Diazonium ion
	mg/dl	1.50	1.19	1.81	0.16	0.31	
Calcium	mmol/l	2.15	1.93	2.37	0.11	0.22	Arsenazo III
	mg/dl	8.62	7.74	9.50	0.44	0.88	
Chloride	mmol/l	98.7	90.8	107	3.95	7.90	ISE indirect
Cholesterol	mmol/l	3.94	3.43	4.45	0.26	0.51	Cholesterol Oxidase
	mg/dl	152	132	172	10.00	20.00	
Cholinesterase	U/l	6471	5177	7765	647.00	1294.00	Colorimetric Butyrylthiocholine 37°C
CK Total	U/l	191	156	226	17.50	35.00	CK-NAC substrate start (DGKC) 37°C
	U/l	198	162	234	18.00	36.00	
Copper	µmol/l	12.4	9.91	14.9	1.25	2.49	Colorimetric
	µg/dl	78.9	63.0	94.8	7.95	15.90	
Creatinine	µmol/l	128	103	153	12.50	25.00	Alkaline picrate no deproteinization
	mg/dl	1.45	1.16	1.74	0.15	0.29	
	µmol/l	119	95.0	143	12.00	24.00	Enzymatic UV method
	mg/dl	1.34	1.07	1.61	0.14	0.27	
	µmol/l	115	92.3	138	11.35	22.70	Creatinine PAP method
	mg/dl	1.30	1.04	1.56	0.13	0.26	
	µmol/l	129	103	155	13.00	26.00	Jaffe rate blanked
	mg/dl	1.46	1.16	1.76	0.15	0.30	
	µmol/l	130	104	156	13.00	26.00	IDMS traceable
	mg/dl	1.47	1.18	1.76	0.15	0.29	

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Analyte	unit	Target	low	high	1SD	2SD	methods	
gamma-GT	U/l	51	44	58	3.50	7.00	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C	
	U/l	51	43	59	4.00	8.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	
Glucose	mmol/l	5.88	5.00	6.76	0.44	0.88	Hexokinase	
	mg/dl	106	90.1	122	7.95	15.90		
	mmol/l	6.05	5.14	6.96	0.46	0.91	Glucose oxidase	
	mg/dl	109	92.6	125	8.20	16.40		
HDL - Cholesterol	mmol/l	1.20	1.02	1.38	0.09	0.18	Direct HDL PPD	
	mg/dl	46.3	39.4	53.2	3.45	6.90	Direct Clearance Method	
	mmol/l	1.19	1.01	1.37	0.09	0.18		
	mg/dl	45.9	39.0	52.8	3.45	6.90		
	mmol/l	1.21	1.02	1.40	0.10	0.19	HDL - Ultra	
	mg/dl	46.7	39.4	54.0	3.65	7.30		
	Iron	µmol/l	18.0	14.8	21.2	1.60	3.20	Colorimetric with ppt.
		µg/dl	101	82.7	119	9.15	18.30	
µmol/l		17.7	14.5	20.9	1.60	3.20	Colorimetric without ppt.	
µg/dl		98.9	81.1	117	8.90	17.80		
Lactate	mmol/l	1.45	1.19	1.71	0.13	0.26	Colorimetric Lactate Oxidase	
	mg/dl	13.1	10.7	15.5	1.20	2.40		
LD (LDH)	U/l	200	170	230	15.00	30.00	L->P 37°C	
	U/l	199	169	229	15.00	30.00	L->P IFCC 37°C	
Lipase	U/l	33	26	40	3.50	7.00	Other Colorimetric 37°C	
Lithium	mmol/l	1.03	0.91	1.15	0.06	0.12	Spectrophotometric	
	mg/dl	0.715	0.631	0.799	0.04	0.08		
Magnesium	mmol/l	0.86	0.75	0.96	0.05	0.10	Arsenazo III	
	mg/dl	2.08	1.83	2.33	0.13	0.25		

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Magnesium	mmol/l	0.84	0.74	0.94	0.05	0.10	Xylidyl Blue
	mg/dl	2.04	1.80	2.28	0.12	0.24	
	mmol/l	0.83	0.73	0.93	0.05	0.10	Enzymatic
	mg/dl	2.02	1.78	2.26	0.12	0.24	
Osmolality	mOsm/kg	302	242	362	30.00	60.00	Calculated
Phosphate Inorganic	mmol/l	1.27	1.08	1.46	0.10	0.19	Phosphomolybdate enzymatic
	mg/dl	3.94	3.35	4.53	0.30	0.59	
	mmol/l	1.28	1.09	1.47	0.10	0.19	Phosphomolybdate UV
	mg/dl	3.97	3.38	4.56	0.30	0.59	
Potassium	mmol/l	4.02	3.70	4.34	0.16	0.32	ISE method - indirect
Protein Total	g/l	57.4	45.9	68.9	5.75	11.50	Biuret reaction end point
	g/dl	5.74	4.59	6.89	0.58	1.15	
	g/l	57.0	45.6	68.4	5.70	11.40	Biuret reaction kinetic
	g/dl	5.70	4.56	6.84	0.57	1.14	
Sodium	mmol/l	146	139	153	3.50	7.00	ISE method - indirect
TIBC	μmol/l	42.2	33.4	51.0	4.40	8.80	FE+UIBC(saturation with iron)
	μg/dl	236	187	285	24.50	49.00	
	μmol/l	46.8	37.0	56.6	4.90	9.80	Calculated from Transferrin
	μg/dl	262	207	317	27.50	55.00	
Triglycerides	mmol/l	1.03	0.86	1.20	0.08	0.17	Lipase/GPO-PAP no correction
	mg/dl	91.2	76.5	106	7.35	14.70	
	mmol/l	1.04	0.88	1.20	0.08	0.16	L/G Kinase EP. no correction
	mg/dl	92.0	77.6	106	7.20	14.40	
	mmol/l	1.02	0.86	1.18	0.08	0.16	Lipase/Glycerol Dehydrogenase
	mg/dl	90.3	76.1	105	7.10	14.20	

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UIBC	µmol/l	23.9	19.6	28.2	2.15	4.30	Direct Colorimetric
	µg/dl	134	110	158	12.00	24.00	
Urea	mmol/l	7.44	6.32	8.56	0.56	1.12	Urease end point
	mg/dl	44.7	38.0	51.4	3.35	6.70	
	mmol/l	7.49	6.37	8.61	0.56	1.12	Urease kinetic
	mg/dl	45.0	38.3	51.7	3.35	6.70	
Uric Acid (Urate)	mmol/l	7.49	6.37	8.61	0.56	1.12	BUN
	mg/dl	21.0	17.9	24.1	1.55	3.10	
	mmol/l	0.34	0.29	0.38	0.02	0.04	Uricase peroxidase with ascorbate oxidase
		mg/dl	5.63	4.89	6.37	0.37	
mmol/l	0.34	0.29	0.38	0.02	0.04	Uricase peroxidase no ascorbate oxidase	
	mg/dl	5.66	4.92	6.40	0.37		0.74
mmol/l	0.34	0.29	0.38	0.02	0.04	Uricase Peroxidase with ascorbate oxidase @ 546nm	
	mg/dl	5.64	4.91	6.37	0.37		0.73

ABX Pentra 400®

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Albumin	g/l	39.4	33.5	45.3	2.95	5.90	Bromocresol Green
	g/dl	3.94	3.35	4.53	0.30	0.59	
ALT (GPT)	U/l	39	31	47	4.00	8.00	Tris buffer without P5P 37°C
AST (GOT)	U/l	42	34	50	4.00	8.00	Tris buffer without P5P 37°C
Bilirubin Total	µmol/l	26.6	21.0	32.2	2.80	5.60	Diazo with Dichloroaniline (DCA)
	mg/dl	1.56	1.23	1.89	0.17	0.33	
Calcium	mmol/l	2.15	1.94	2.36	0.11	0.21	Arsenazo III
	mg/dl	8.62	7.78	9.46	0.42	0.84	
Cholesterol	mmol/l	4.10	3.57	4.63	0.27	0.53	Cholesterol Oxidase
	mg/dl	158	138	178	10.00	20.00	
Glucose	mmol/l	5.85	4.97	6.73	0.44	0.88	Glucose oxidase
	mg/dl	105	89.6	120	7.70	15.40	
Magnesium	mmol/l	0.93	0.81	1.04	0.06	0.11	Xylidyl Blue
	mg/dl	2.25	1.98	2.52	0.14	0.27	
Phosphate Inorganic	mmol/l	1.44	1.22	1.66	0.11	0.22	Phosphomolybdate UV
	mg/dl	4.46	3.78	5.14	0.34	0.68	
Protein Total	g/l	57.0	45.6	68.4	5.70	11.40	Biuret reaction end point
	g/dl	5.70	4.56	6.84	0.57	1.14	
Triglycerides	mmol/l	1.11	0.93	1.29	0.09	0.18	Lipase/GPO-PAP no correction
	mg/dl	98.2	82.4	114	7.90	15.80	
Urea	mmol/l	7.13	6.06	8.20	0.54	1.07	Urease kinetic
	mg/dl	42.9	36.4	49.4	3.25	6.50	

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Urea	mmol/l	7.13	6.06	8.20	0.54	1.07	BUN
	mg/dl	20.0	17.0	23.0	1.50	3.00	
Uric Acid (Urate)	mmol/l	0.33	0.29	0.38	0.02	0.04	Uricase peroxidase with ascorbate oxidase
	mg/dl	5.61	4.89	6.33	0.36	0.72	

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Albumin	g/l	38.5	32.7	44.3	2.90	5.80	Bromocresol Green
	g/dl	3.85	3.27	4.43	0.29	0.58	
	g/l	42.7	36.3	49.1	3.20	6.40	Bromocresol Purple
	g/dl	4.27	3.63	4.91	0.32	0.64	
Alkaline Phosphatase	U/l	269	229	309	20.00	40.00	Diethanolamine buffer DEA 37°C
	U/l	193	164	222	14.50	29.00	AMP optimised to IFCC 37°C
ALT (GPT)	U/l	38	30	46	4.00	8.00	Tris buffer without P5P 37°C
	U/l	36	29	43	3.50	7.00	Beckman (Extinction Coefficient) 37°C
Amylase Total	U/l	89	76	102	6.50	13.00	pNP Maltotriose substrates 37°C
	U/l	94	80	108	7.00	14.00	Beckman Coulter - blocked pNPG7 37°C
	U/l	88	75	101	6.50	13.00	Beckman CNPG3 (Extinction Coeff) 37°C
AST (GOT)	U/l	40	32	48	4.00	8.00	Tris buffer without P5P 37°C
	U/l	40	32	48	4.00	8.00	Beckman (Extinction Coefficient) 37°C
Bicarbonate	mmol/l	16.4	13.0	19.8	1.70	3.40	Enzymatic
Bilirubin Direct	µmol/l	19.0	15.0	23.0	2.00	4.00	Dichlorophenyl Diazonium (DPD)
	mg/dl	1.11	0.878	1.34	0.12	0.23	
	µmol/l	18.8	14.8	22.8	2.00	4.00	Diazo with Dichloroaniline (DCA)
	mg/dl	1.10	0.866	1.33	0.12	0.23	
Bilirubin Total	µmol/l	28.0	22.1	33.9	2.95	5.90	DPD (Beckman AU)
	mg/dl	1.64	1.29	1.99	0.18	0.35	
Calcium	mmol/l	2.18	1.96	2.40	0.11	0.22	Cresolphthalein complexone
	mg/dl	8.74	7.86	9.62	0.44	0.88	

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Calcium	mmol/l	2.17	1.95	2.39	0.11	0.22	Arsenazo III
	mg/dl	8.70	7.82	9.58	0.44	0.88	
Chloride	mmol/l	96.9	89.2	105	3.85	7.70	ISE indirect
Cholesterol	mmol/l	4.00	3.48	4.52	0.26	0.52	Cholesterol Oxidase
	mg/dl	154	134	174	10.00	20.00	
Cholinesterase	U/l	5175	4140	6210	517.50	1035.00	Colorimetric Butyrylthiocholine 37°C
CK Total	U/l	202	166	238	18.00	36.00	CK-NAC (IFCC) 37°C
	U/l	197	161	233	18.00	36.00	Beckman CK-NAC (Extinction Coeff) 37°C
Copper	µmol/l	16.6	13.3	19.9	1.65	3.30	Colorimetric
	µg/dl	106	84.6	127	10.70	21.40	
Creatinine	µmol/l	123	98.7	147	12.15	24.30	Alkaline picrate no deproteinization
	mg/dl	1.39	1.12	1.66	0.14	0.27	
	µmol/l	124	99.4	149	12.30	24.60	Enzymatic UV method
	mg/dl	1.40	1.12	1.68	0.14	0.28	
	µmol/l	121	96.5	146	12.25	24.50	Creatinine PAP method
	mg/dl	1.37	1.09	1.65	0.14	0.28	
	µmol/l	121	97.0	145	12.00	24.00	Jaffe rate blanked
	mg/dl	1.37	1.10	1.64	0.14	0.27	
	µmol/l	115	91.8	138	11.60	23.20	Jaffe rate blanked compensated (-18 µmol/l)
	mg/dl	1.30	1.04	1.56	0.13	0.26	
D-3-Hydroxybutyrate	mmol/l	0.28	0.24	0.32	0.02	0.04	Tris buffer 100mmol pH 8.5
	U/l	54	46	62	4.00	8.00	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C

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gamma-GT	U/l	53	45	61	4.00	8.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C
	U/l	54	46	62	4.00	8.00	Beckman Szasz (Extinction Coeff) 37°C
GLDH	U/l	16	12	20	2.00	4.00	Triethanolamine buffer 50 mmol 37°C
Glucose	mmol/l	6.03	5.12	6.94	0.46	0.91	Glucose dehydrogenase
	mg/dl	109	92.3	126	8.35	16.70	
	mmol/l	6.07	5.16	6.98	0.46	0.91	Hexokinase
	mg/dl	109	93.0	125	8.00	16.00	
HDL - Cholesterol	mmol/l	6.13	5.21	7.05	0.46	0.92	Glucose oxidase
	mg/dl	110	93.9	126	8.05	16.10	
	mmol/l	1.16	0.99	1.33	0.09	0.17	Direct HDL Immunoseparation
		mg/dl	44.8	38.2	51.4	3.30	
mmol/l	1.29	1.10	1.48	0.10	0.19	Direct Clearance Method	
	mg/dl	49.8	42.5	57.1	3.65		7.30
mmol/l	1.23	1.05	1.41	0.09	0.18	HDL - Ultra	
	mg/dl	47.5	40.5	54.5	3.50		7.00
Iron	µmol/l	17.5	14.4	20.6	1.55	3.10	Colorimetric with ppt.
	µg/dl	97.8	80.5	115	8.65	17.30	
	µmol/l	17.8	14.6	21.0	1.60	3.20	Colorimetric without ppt.
	µg/dl	99.5	81.6	117	8.95	17.90	
Lactate	mmol/l	1.38	1.13	1.63	0.13	0.25	Colorimetric Lactate Oxidase
	mg/dl	12.4	10.2	14.6	1.10	2.20	
LD (LDH)	U/l	193	164	222	14.50	29.00	L->P 37°C
	U/l	434	369	499	32.50	65.00	P->L Scandinavian & Dutch 37°C
	U/l	201	171	231	15.00	30.00	L->P IFCC 37°C
	U/l	193	164	222	14.50	29.00	L to P Beckman (Extinction Coeff) 37°C

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Lipase	U/l	30	24	36	3.00	6.00	Other Colorimetric 37°C
	U/l	30	24	36	3.00	6.00	Roche Colorimetric 37°C
	U/l	40	32	48	4.00	8.00	Randox Colorimetric 37°C
Lithium	mmol/l	1.03	0.91	1.15	0.06	0.12	Spectrophotometric
	mg/dl	0.715	0.631	0.799	0.04	0.08	
Magnesium	mmol/l	0.89	0.79	1.00	0.05	0.11	Xylidyl Blue
	mg/dl	2.17	1.91	2.43	0.13	0.26	
Osmolality	mOsm/kg	304	244	364	30.00	60.00	Calculated
Phosphate Inorganic	mmol/l	1.30	1.10	1.50	0.10	0.20	Phosphomolybdate UV
	mg/dl	4.03	3.41	4.65	0.31	0.62	
Potassium	mmol/l	3.98	3.67	4.29	0.16	0.31	ISE method - indirect
Protein Total	g/l	57.0	45.6	68.4	5.70	11.40	Biuret reaction end point
	g/dl	5.70	4.56	6.84	0.57	1.14	
	g/l	58.2	46.5	69.9	5.85	11.70	Biuret reaction kinetic
	g/dl	5.82	4.65	6.99	0.59	1.17	
Sodium	mmol/l	146	139	153	3.50	7.00	ISE method - indirect
TIBC	µmol/l	46.8	36.9	56.7	4.95	9.90	FE+UIBC(saturation with iron)
	µg/dl	262	206	318	28.00	56.00	
Triglycerides	mmol/l	1.09	0.91	1.27	0.09	0.18	Lipase/GPO-PAP no correction
	mg/dl	96.5	80.8	112	7.85	15.70	
	mmol/l	1.09	0.92	1.26	0.09	0.17	L/G Kinase EP. no correction
	mg/dl	96.5	81.3	112	7.60	15.20	
UIBC	µmol/l	28.6	23.5	33.7	2.55	5.10	Direct Colorimetric
	µg/dl	160	131	189	14.50	29.00	
Urea	mmol/l	7.66	6.51	8.81	0.58	1.15	Urease end point
	mg/dl	46.0	39.1	52.9	3.45	6.90	

**Beckman Coulter AU Series®**

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Urea	mmol/l	7.59	6.45	8.73	0.57	1.14	Urease kinetic
	mg/dl	45.6	38.8	52.4	3.40	6.80	
	mmol/l	7.59	6.45	8.73	0.57	1.14	BUN
	mg/dl	21.3	18.1	24.5	1.60	3.20	
Uric Acid (Urate)	mmol/l	0.35	0.30	0.39	0.02	0.05	Uricase peroxidase with ascorbate oxidase
	mg/dl	5.80	5.04	6.56	0.38	0.76	
	mmol/l	0.34	0.30	0.39	0.02	0.05	Uricase peroxidase no ascorbate oxidase
	mg/dl	5.76	5.01	6.51	0.38	0.75	
	mmol/l	0.34	0.29	0.38	0.02	0.04	Uricase Peroxidase with ascorbate oxidase @ 546nm
	mg/dl	5.66	4.92	6.40	0.37	0.74	

Beckman CX4/5/7/9/LX20®/DxC600/800®

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Albumin	g/l	40.8	34.7	46.9	3.05	6.10	Bromocresol Green
	g/dl	4.08	3.47	4.69	0.31	0.61	
	g/l	41.7	35.4	48.0	3.15	6.30	Bromocresol Purple
	g/dl	4.17	3.54	4.80	0.32	0.63	
Alkaline Phosphatase	U/l	164	140	188	12.00	24.00	AMP optimised to IFCC 37°C
	U/l	167	142	192	12.50	25.00	AMP non-optimised 37°C
ALT (GPT)	U/l	35	28	42	3.50	7.00	Tris buffer without P5P 37°C
	U/l	33	26	40	3.50	7.00	Tris buffer SCE 37°C
Amylase Total	U/l	95	81	109	7.00	14.00	Beckman Synchron AMY7 37°C
AST (GOT)	U/l	39	31	47	4.00	8.00	Tris buffer without P5P 37°C
	U/l	36	29	43	3.50	7.00	Tris buffer SCE 37°C
Bicarbonate	mmol/l	16.0	12.7	19.3	1.65	3.30	Differential rate pH change
Bilirubin Direct	µmol/l	12.2	9.68	14.7	1.26	2.52	Diazo with Sulphanilic Acid
	mg/dl	0.714	0.566	0.862	0.07	0.15	
Bilirubin Total	µmol/l	28.5	22.5	34.5	3.00	6.00	Diazo with Sulphanilic Acid
	mg/dl	1.67	1.32	2.02	0.18	0.35	
Calcium	mmol/l	2.08	1.87	2.29	0.11	0.21	Ion selective electrode
	mg/dl	8.34	7.49	9.19	0.43	0.85	
Chloride	mmol/l	97.7	89.9	106	3.90	7.80	ISE indirect
Cholesterol	mmol/l	3.77	3.28	4.26	0.25	0.49	Cholesterol Oxidase
	mg/dl	146	127	165	9.50	19.00	

Beckman CX4/5/7/9/LX20®/DxC600/800®

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Cholinesterase	U/l	5755	4604	6906	575.50	1151.00	Colorimetric Butyrylthiocholine 37°C
CK Total	U/l	201	165	237	18.00	36.00	Monothioglycerol 37°C
Creatinine	µmol/l	119	95.3	143	11.85	23.70	Alkaline picrate no deproteinization
	mg/dl	1.34	1.08	1.60	0.13	0.26	
	µmol/l	119	95.6	142	11.70	23.40	Jaffe rate blanked
	mg/dl	1.34	1.08	1.60	0.13	0.26	
IDMS traceable	µmol/l	121	96.4	146	12.30	24.60	
	mg/dl	1.37	1.09	1.65	0.14	0.28	
gamma-GT	U/l	44	37	51	3.50	7.00	Gamma glutamyl-4-nitroanilide 37°C
Glucose	mmol/l	5.85	4.98	6.72	0.44	0.87	Hexokinase
	mg/dl	105	89.7	120	7.65	15.30	
	mmol/l	5.81	4.94	6.68	0.44	0.87	Oxygen electrode
	mg/dl	105	89.0	121	8.00	16.00	
Glucose oxidase	mmol/l	5.80	4.93	6.67	0.44	0.87	
	mg/dl	105	88.8	121	8.10	16.20	
HDL - Cholesterol	mmol/l	1.23	1.05	1.41	0.09	0.18	Direct HDL PPD
	mg/dl	47.5	40.5	54.5	3.50	7.00	
Iron	µmol/l	16.6	13.6	19.6	1.50	3.00	Colorimetric without ppt.
	µg/dl	92.8	76.0	110	8.40	16.80	
LD (LDH)	U/l	166	141	191	12.50	25.00	L->P 37°C
Lipase	U/l	34	28	40	3.00	6.00	Other Colorimetric 37°C
Magnesium	mmol/l	0.86	0.75	0.96	0.05	0.10	Calmagite
	mg/dl	2.08	1.83	2.33	0.13	0.25	
Phosphate Inorganic	mmol/l	1.33	1.13	1.53	0.10	0.20	Phosphomolybdate enzymatic
	mg/dl	4.12	3.50	4.74	0.31	0.62	

Beckman CX4/5/7/9/LX20®/DxC600/800®

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Phosphate Inorganic	mmol/l	1.34	1.14	1.54	0.10	0.20	Phosphomolybdate UV
	mg/dl	4.15	3.53	4.77	0.31	0.62	
Potassium	mmol/l	3.92	3.61	4.23	0.16	0.31	ISE method - indirect
Protein Total	g/l	57.9	46.3	69.5	5.80	11.60	Biuret reaction CX4/5/7
	g/dl	5.79	4.63	6.95	0.58	1.16	
	g/l	58.0	46.4	69.6	5.80	11.60	Biuret reaction end point
	g/dl	5.80	4.64	6.96	0.58	1.16	
	g/l	55.1	44.1	66.1	5.50	11.00	
g/dl	5.51	4.41	6.61	0.55	1.10		
Sodium	mmol/l	144	137	151	3.50	7.00	ISE method - indirect
Triglycerides	mmol/l	1.13	0.95	1.31	0.09	0.18	Lipase/GPO-PAP no correction
	mg/dl	100	83.7	116	8.15	16.30	
	mmol/l	1.14	0.96	1.32	0.09	0.18	L/G Kinase EP. no correction
Urea	mg/dl	101	84.7	117	8.15	16.30	Urease end point
	mmol/l	7.60	6.46	8.74	0.57	1.14	
	mg/dl	45.7	38.8	52.6	3.45	6.90	Urease kinetic
	mmol/l	7.80	6.63	8.97	0.59	1.17	
	mg/dl	46.9	39.8	54.0	3.55	7.10	
Uric Acid (Urate)	mmol/l	7.80	6.63	8.97	0.59	1.17	BUN
	mg/dl	21.9	18.6	25.2	1.65	3.30	
Uric Acid (Urate)	mmol/l	0.33	0.29	0.37	0.02	0.04	Uricase peroxidase no ascorbate oxidase
	mg/dl	5.51	4.80	6.22	0.36	0.71	

BIOSYSTEMS A15

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Albumin	g/l	39.5	33.5	45.5	3.00	6.00	Bromocresol Green
	g/dl	3.95	3.35	4.55	0.30	0.60	
Alkaline Phosphatase	U/l	165	140	190	12.50	25.00	AMP optimised to IFCC 37°C
	U/l	129	109	149	10.00	20.00	AMP optimised to IFCC 30°C
	U/l	105	89	121	8.00	16.00	AMP optimised to IFCC 25°C
ALT (GPT)	U/l	40	32	48	4.00	8.00	Tris buffer without P5P 37°C
	U/l	30	24	36	3.00	6.00	Tris buffer without P5P 30°C
	U/l	23	18	28	2.50	5.00	Tris buffer without P5P 25°C
AST (GOT)	U/l	44	35	53	4.50	9.00	Tris buffer without P5P 37°C
	U/l	30	24	36	3.00	6.00	Tris buffer without P5P 30°C
	U/l	21	17	25	2.00	4.00	Tris buffer without P5P 25°C
Bilirubin Direct	µmol/l	19.1	15.1	23.1	2.00	4.00	Diazo with Sulphanilic Acid
	mg/dl	1.12	0.883	1.36	0.12	0.24	
Bilirubin Total	µmol/l	29.1	23.0	35.2	3.05	6.10	Diazo with Sulphanilic Acid
	mg/dl	1.70	1.35	2.05	0.18	0.35	
Cholesterol	mmol/l	3.99	3.47	4.51	0.26	0.52	Cholesterol Oxidase
	mg/dl	154	134	174	10.00	20.00	
Glucose	mmol/l	6.27	5.33	7.21	0.47	0.94	Glucose oxidase
	mg/dl	113	96.0	130	8.50	17.00	
Protein Total	g/l	55.6	44.5	66.7	5.55	11.10	Biuret reaction end point
	g/dl	5.56	4.45	6.67	0.56	1.11	

**BIOSYSTEMS A15**

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Urea	mmol/l	7.08	6.02	8.14	0.53	1.06	Urease kinetic
	mg/dl	42.6	36.2	49.0	3.20	6.40	
	mmol/l	7.08	6.02	8.14	0.53	1.06	BUN
	mg/dl	19.9	16.9	22.9	1.50	3.00	

BIOSYSTEMS A25

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Albumin	g/l	40.2	34.2	46.2	3.00	6.00	Bromocresol Green
	g/dl	4.02	3.42	4.62	0.30	0.60	
AST (GOT)	U/l	39	31	47	4.00	8.00	Tris buffer without P5P 37°C
	U/l	26	21	31	2.50	5.00	Tris buffer without P5P 30°C
	U/l	19	15	23	2.00	4.00	Tris buffer without P5P 25°C
Bilirubin Total	µmol/l	29.9	23.6	36.2	3.15	6.30	Diazo with Sulphanilic Acid
	mg/dl	1.75	1.38	2.12	0.19	0.37	
Cholesterol	mmol/l	3.95	3.44	4.46	0.26	0.51	Cholesterol Oxidase
	mg/dl	152	133	171	9.50	19.00	
Glucose	mmol/l	6.32	5.37	7.27	0.48	0.95	Glucose oxidase
	mg/dl	114	96.8	131	8.60	17.20	
LD (LDH)	U/l	449	382	516	33.50	67.00	P->L Scandinavian & Dutch 37°C
	U/l	324	276	372	24.00	48.00	P->L Scandinavian & Dutch 30°C
	U/l	228	194	262	17.00	34.00	P->L Scandinavian & Dutch 25°C
Protein Total	g/l	55.2	44.1	66.3	5.55	11.10	Biuret reaction end point
	g/dl	5.52	4.41	6.63	0.56	1.11	
Triglycerides	mmol/l	1.09	0.92	1.26	0.09	0.17	Lipase/GPO-PAP no correction
	mg/dl	96.5	81.2	112	7.65	15.30	
Urea	mmol/l	7.13	6.06	8.20	0.54	1.07	Urease kinetic
	mg/dl	42.9	36.4	49.4	3.25	6.50	
	mmol/l	7.13	6.06	8.20	0.54	1.07	BUN
	mg/dl	20.0	17.0	23.0	1.50	3.00	

**BIOSYSTEMS A25**

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Uric Acid (Urate)	mmol/l	0.37	0.32	0.41	0.02	0.05	Uricase peroxidase no ascorbate oxidase
	mg/dl	6.13	5.34	6.92	0.40	0.79	



Biotechnica/Wiener BT and CB Series

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Albumin	g/l	39.5	33.6	45.4	2.95	5.90	Bromocresol Green
	g/dl	3.95	3.36	4.54	0.30	0.59	
ALT (GPT)	U/l	37	30	44	3.50	7.00	Tris buffer without P5P 37°C
	U/l	27	22	32	2.50	5.00	Tris buffer without P5P 30°C
	U/l	21	17	25	2.00	4.00	Tris buffer without P5P 25°C
AST (GOT)	U/l	38	30	46	4.00	8.00	Tris buffer without P5P 37°C
	U/l	26	20	32	3.00	6.00	Tris buffer without P5P 30°C
	U/l	18	14	22	2.00	4.00	Tris buffer without P5P 25°C
Calcium	mmol/l	2.18	1.96	2.40	0.11	0.22	Arsenazo III
	mg/dl	8.74	7.86	9.62	0.44	0.88	
Cholesterol	mmol/l	3.98	3.46	4.50	0.26	0.52	Cholesterol Oxidase
	mg/dl	154	134	174	10.00	20.00	
CK Total	U/l	190	156	224	17.00	34.00	CK-NAC (IFCC) 37°C
	U/l	119	98	140	10.50	21.00	CK-NAC (IFCC) 30°C
	U/l	81	66	96	7.50	15.00	CK-NAC (IFCC) 25°C
Creatinine	µmol/l	123	98.7	147	12.15	24.30	Alkaline picrate no deproteinization
	mg/dl	1.39	1.12	1.66	0.14	0.27	
	µmol/l	118	94.7	141	11.65	23.30	Creatinine PAP method
	mg/dl	1.33	1.07	1.59	0.13	0.26	
Glucose	mmol/l	6.04	5.13	6.95	0.46	0.91	Glucose oxidase
	mg/dl	109	92.4	126	8.30	16.60	

Biotechnica/Wiener BT and CB Series

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
HDL - Cholesterol	mmol/l	1.20	1.02	1.38	0.09	0.18	Direct HDL Immunoseparation
	mg/dl	46.3	39.4	53.2	3.45	6.90	
Iron	µmol/l	16.8	13.8	19.8	1.50	3.00	Colorimetric without ppt.
	µg/dl	93.9	77.1	111	8.40	16.80	
Phosphate Inorganic	mmol/l	1.46	1.24	1.68	0.11	0.22	Phosphomolybdate UV
	mg/dl	4.53	3.84	5.22	0.35	0.69	
Protein Total	g/l	54.6	43.7	65.5	5.45	10.90	Biuret reaction end point
	g/dl	5.46	4.37	6.55	0.55	1.09	
Triglycerides	mmol/l	1.03	0.87	1.19	0.08	0.16	Lipase/GPO-PAP no correction
	mg/dl	91.2	76.8	106	7.20	14.40	
Urea	mmol/l	7.57	6.43	8.71	0.57	1.14	Urease kinetic
	mg/dl	45.5	38.6	52.4	3.45	6.90	
	mmol/l	7.57	6.43	8.71	0.57	1.14	BUN
	mg/dl	21.2	18.0	24.4	1.60	3.20	
Uric Acid (Urate)	mmol/l	0.33	0.29	0.37	0.02	0.04	Uricase peroxidase no ascorbate oxidase
	mg/dl	5.56	4.84	6.28	0.36	0.72	

COBAS INTEGRA®

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Albumin	g/l	41.7	35.4	48.0	3.15	6.30	Bromocresol Green
	g/dl	4.17	3.54	4.80	0.32	0.63	
	g/l	38.8	32.9	44.7	2.95	5.90	Turbidimetric Assays
	g/dl	3.88	3.29	4.47	0.30	0.59	
Alkaline Phosphatase	U/l	146	125	167	10.50	21.00	Roche Integra AMP buffer 37°C
	U/l	114	97	131	8.50	17.00	Roche Integra AMP buffer 30°C
	U/l	93	80	106	6.50	13.00	Roche Integra AMP buffer 25°C
ALT (GPT)	U/l	31	25	37	3.00	6.00	Tris buffer without P5P 37°C
	U/l	23	19	27	2.00	4.00	Tris buffer without P5P 30°C
	U/l	17	14	20	1.50	3.00	Tris buffer without P5P 25°C
Amylase Pancreatic	U/l	72	62	82	5.00	10.00	Roche EPS Liquid 37°C
Amylase Total	U/l	92	79	105	6.50	13.00	Roche Integra 2-chloro-pNPG7 37°C
	U/l	93	79	107	7.00	14.00	Roche liquid stable pNPG7 37°C
AST (GOT)	U/l	35	28	42	3.50	7.00	Tris buffer without P5P 37°C
	U/l	24	19	29	2.50	5.00	Tris buffer without P5P 30°C
	U/l	17	13	21	2.00	4.00	Tris buffer without P5P 25°C
Bicarbonate	mmol/l	15.9	12.6	19.2	1.65	3.30	Colorimetric
	mmol/l	15.2	12.0	18.4	1.60	3.20	Enzymatic
Bilirubin Direct	µmol/l	17.2	13.6	20.8	1.80	3.60	Dichlorophenyl Diazonium (DPD)
	mg/dl	1.01	0.796	1.22	0.11	0.21	
	µmol/l	17.4	13.7	21.1	1.85	3.70	Diazo with Sulphanilic Acid
	mg/dl	1.02	0.801	1.24	0.11	0.22	

COBAS INTEGRA®

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
Bilirubin Direct	µmol/l	17.1	13.5	20.7	1.80	3.60	Roche JG factored
	mg/dl	1.00	0.790	1.21	0.11	0.21	
Bilirubin Total	µmol/l	24.6	19.4	29.8	2.60	5.20	Diazo with Dichloroaniline (DCA)
	mg/dl	1.44	1.13	1.75	0.16	0.31	
	µmol/l	24.5	19.3	29.7	2.60	5.20	Diazo with Sulphanilic Acid
	mg/dl	1.43	1.13	1.73	0.15	0.30	
	µmol/l	24.3	19.2	29.4	2.55	5.10	Dichlorophenyl Diazonium (DPD)
	mg/dl	1.42	1.12	1.72	0.15	0.30	
µmol/l	24.6	19.4	29.8	2.60	5.20	Diazonium ion	
mg/dl	1.44	1.13	1.75	0.16	0.31		
Calcium	mmol/l	2.13	1.92	2.34	0.11	0.21	Cresolphthalein complexone
	mg/dl	8.54	7.70	9.38	0.42	0.84	
	mmol/l	2.12	1.91	2.33	0.11	0.21	NM-BAPTA
	mg/dl	8.50	7.66	9.34	0.42	0.84	
Chloride	mmol/l	98.0	90.1	106	3.95	7.90	ISE indirect
Cholesterol	mmol/l	3.87	3.37	4.37	0.25	0.50	Cholesterol Oxidase
	mg/dl	149	130	168	9.50	19.00	
CK Total	U/l	185	152	218	16.50	33.00	CK-NAC (IFCC) 37°C
	U/l	116	95	137	10.50	21.00	CK-NAC (IFCC) 30°C
	U/l	79	65	93	7.00	14.00	CK-NAC (IFCC) 25°C
Creatinine	µmol/l	120	96.2	144	11.90	23.80	Alkaline picrate no deproteinization
	mg/dl	1.36	1.09	1.63	0.14	0.27	
	µmol/l	121	96.7	145	12.15	24.30	Enzymatic UV method
	mg/dl	1.37	1.09	1.65	0.14	0.28	

COBAS INTEGRA®

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods	
Creatinine	µmol/l	121	96.9	145	12.05	24.10	Roche Creatinine Plus	
	mg/dl	1.37	1.09	1.65	0.14	0.28		
	µmol/l	126	101	151	12.50	25.00	Jaffe rate blanked comp. (-26 µmol/l)	
	mg/dl	1.42	1.14	1.70	0.14	0.28		
	µmol/l	124	99.3	149	12.35	24.70	Jaffe rate blanked compensated (-18 µmol/l)	
	mg/dl	1.40	1.12	1.68	0.14	0.28		
	gamma-GT	U/l	48	41	55	3.50	7.00	Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C
		U/l	38	32	44	3.00	6.00	Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C
U/l		30	25	35	2.50	5.00	Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C	
U/l		53	45	61	4.00	8.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C	
U/l		42	35	49	3.50	7.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C	
U/l		33	28	38	2.50	5.00	Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C	
Glucose	mmol/l	6.08	5.17	6.99	0.46	0.91	Hexokinase	
	mg/dl	110	93.2	127	8.40	16.80		
HDL - Cholesterol	mmol/l	1.19	1.01	1.37	0.09	0.18	Direct HDL PEGME	
	mg/dl	45.9	39.0	52.8	3.45	6.90		
	mmol/l	1.11	0.95	1.27	0.08	0.16	Direct HDL Roche 3rd generation	
	mg/dl	42.8	36.5	49.1	3.15	6.30		
Iron	µmol/l	17.6	14.5	20.7	1.55	3.10	Colorimetric with ppt.	
	µg/dl	98.4	81.1	116	8.65	17.30		
	µmol/l	17.5	14.4	20.6	1.55	3.10	Colorimetric without ppt.	
	µg/dl	97.8	80.5	115	8.65	17.30		
Lactate	mmol/l	1.45	1.19	1.71	0.13	0.26	Colorimetric Lactate Oxidase	
	mg/dl	13.1	10.7	15.5	1.20	2.40		
LD (LDH)	U/l	399	339	459	30.00	60.00	P->L German methods 37°C	
	U/l	288	245	331	21.50	43.00	P->L German methods 30°C	
	U/l	202	172	232	15.00	30.00	P->L German methods 25°C	

COBAS INTEGRA®

ASSAYED HUMAN SERA LEVEL 2 (HUM ASY CONTROL 2)

Lot. No. 1292UN Cat. No. HN1530 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2022-03-28

Range

Analyte	unit	Target	low	high	1SD	2SD	methods
LD (LDH)	U/l	216	184	248	16.00	32.00	L->P IFCC 37°C
	U/l	156	133	179	11.50	23.00	L->P IFCC 30°C
	U/l	110	93	127	8.50	17.00	L->P IFCC 25°C
Lipase	U/l	31	25	37	3.00	6.00	Roche Colorimetric 37°C
Lithium	mmol/l	1.02	0.90	1.15	0.06	0.13	Ion selective electrode
	mg/dl	0.708	0.621	0.795	0.04	0.09	
Magnesium	mmol/l	0.90	0.79	1.01	0.05	0.11	Chlorphosphonazo III
	mg/dl	2.19	1.92	2.46	0.14	0.27	
Phosphate Inorganic	mmol/l	1.35	1.15	1.55	0.10	0.20	Phosphomolybdate enzymatic
	mg/dl	4.19	3.57	4.81	0.31	0.62	
	mmol/l	1.36	1.16	1.56	0.10	0.20	Phosphomolybdate UV
	mg/dl	4.22	3.60	4.84	0.31	0.62	
Potassium	mmol/l	4.01	3.69	4.33	0.16	0.32	ISE method - indirect
Protein Total	g/l	54.5	43.6	65.4	5.45	10.90	Biuret reaction end point
	g/dl	5.45	4.36	6.54	0.55	1.09	
	g/l	54.6	43.7	65.5	5.45	10.90	Biuret reaction kinetic
	g/dl	5.46	4.37	6.55	0.55	1.09	
Sodium	mmol/l	146	138	154	4.00	8.00	ISE method - indirect
TIBC	µmol/l	43.2	34.1	52.3	4.55	9.10	FE+UIBC(saturation with iron)
	µg/dl	241	191	291	25.00	50.00	
Triglycerides	mmol/l	1.12	0.94	1.30	0.09	0.18	Lipase/GPO-PAP no correction
	mg/dl	99.1	82.9	115	8.10	16.20	
	mmol/l	1.12	0.94	1.30	0.09	0.18	Lipase/GPO-PAP 0.11mmol/l correction
	mg/dl	99.1	83.2	115	7.95	15.90	

