

LINEAR – biochemical control
Multisera N - ΠΙΝΑΚΑΣ ΟΡΟΥ ΕΛΕΧΟΥ
ΑΝΑΜΕΝΟΜΕΝΕΣ ΤΙΜΕΣ

LOT: 19242

Exp.: 05 / 2026

	ΤΙΤΛΟΣ	ΕΥΡΟΣ ΑΠΟΔΟΧΗΣ	ΤΙΜΗ ΣΤΟΧΟΣ	ΜΟΝΑΔΕΣ
	ALBUMIN	3.37 - 4.59	3.98	g/dl
	Alk. Phosphatase	224 - 304	264	U/L
	a-Amylase	79.9 - 109	94.5	
	BILIRUBIN Total	1.48 - 2.28	1.88	mg/dl
	BILIRUBIN Direct	0.65 - 1.03	0.84	
	CALCIUM	7.12 - 8.70	7.91	
	CHE	4760 - 7140	5950	U/L
	CHOLESTEROL	137 - 179	158	mg/dl
	HDL	47 - 61	54	
	CREATININE	1.01 - 1.53	1.27	
	GLUCOSE	96.9 - 131	114	
	CPK	198 - 286	242	U/L
	GAMMA GT	43.1 - 58.3	50.7	
	GOT (ASAT)	30.2 - 45.6	37.9	
	GPT (ALAT)	30.2 - 45.4	37.8	
	IRON (Ferrozine)	94.3 - 136	115	μg/dl
	LDH	366 - 495	430	U/L
	LIPASE	31.2 - 46.8	39.0	
	MAGNESIUM (MR)	2.49 - 3.59	3.04	mg/dl
	PHOSPHORUS	3.66 - 4.96	4.31	
	Total PROTEIN	4.78 - 7.18	5.98	g/dl
	TRIGLYCERIDES	78.8 - 109	93.8	mg/dl
	UREA	37.4 - 50.6	44.0	
	URIC ACID	5.00 - 6.52	5.76	
	Potassium	3.94 - 4.82	4.38	mmol/L
	Sodium	131 - 161	146	

SUSTRATOS / SUBSTRATES

COMPONENTE COMPONENT	VALOR TARGET	RANGO RANGE	Analytical uncertainty		UNIDAD UNIT	MÉTODO METHOD
			1 SD	2 SD		
Albumina <i>Albumin</i>	39.8	33.7 – 45.9	3.06	6.13	g/L	Colorimetric method Bromocresol Green (BCG)
	3.98	3.37 – 4.59	0.31	0.61	g/dL	
Bilirrubina Directa <i>Direct Bilirubin</i>	10.3	8.15 – 12.4	1.06	2.11	µmol/L	Colorimetric method with sample blank Modified Jendrassik & Grof
	0.60	0.48 – 0.72	0.06	0.12	mg/dL	
	14.4	11.1 – 17.6	1.64	3.27	µmol/L	Colorimetric method without sample blank Modified Jendrassik & Grof
	0.84	0.65 – 1.03	0.10	0.19	mg/dL	
	22.1	17.3 – 26.8	2.36	4.72	µmol/L	DIRECT
1.29	1.01 – 1.57	0.14	0.28	mg/dL	DPD Colorimetric method	
Bilirrubina Total <i>Total Bilirubin</i>	31.3	25.0 – 37.6	3.16	6.32	µmol/L	Colorimetric method with sample blank Modified Jendrassik & Grof
	1.83	1.46 – 2.20	0.18	0.37	mg/dL	
	32.1	25.3 – 39.0	3.44	6.88	µmol/L	Colorimetric method without sample blank Modified Jendrassik & Grof
1.88	1.48 – 2.28	0.20	0.40	mg/dL		
Calcio OCC <i>Calcium OCC</i>	1.98	1.78 – 2.18	0.10	0.20	mmol/L	Cresolphthalein complexone OC
	7.91	7.12 – 8.70	0.40	0.79	mg/dL	
Calcio Arsenazo <i>Calcium Arsenazo</i>	1.98	1.78 – 2.18	0.10	0.20	mmol/L	Colorimetric , Arsenazo III
	7.91	7.12 – 8.70	0.40	0.79	mg/dL	
Cloruros <i>Chloride</i>	95.5	87.9 – 103	3.82	7.64	mmol/L	Colorimetric method
Colesterol total <i>Total Cholesterol</i>	4.09	3.56 – 4.62	0.27	0.53	mmol/L	Enzymatic colorimetric method Cholesterol Oxidase
	158	137 – 179	10.3	20.5	mg/dL	
Creatinina <i>Creatinine</i>	112	89.6 – 135	11.3	22.7	µmol/L	Kinetic colorimetric method. Creatinine Enzymatic
	1.27	1.01 – 1.53	0.13	0.26	mg/dL	
Fósforo inorgánico <i>Phosphorus inorganic</i>	1.39	1.18 – 1.60	0.10	0.21	mmol/L	Phosphomolybdate UV method / Colorimetric method
	4.31	3.66 – 4.96	0.32	0.65	mg/dL	
Glucosa <i>Glucose</i>	6.33	5.38 – 7.28	0.47	0.95	mmol/L	Glucose Oxidase. Endpoint. Enzymatic colorimetric method.
	114	96.9 – 131	8.55	17.1	mg/dL	
Hierro Ferrozine <i>Iron Ferrozine</i>	20.6	16.9 – 24.3	1.85	3.71	µmol/L	Colorimetric method. Endpoint.
	115	94.3 – 136	10.4	20.7	µg/dL	
Hierro Cromazurol <i>Iron Cromazurol</i>	21.7	17.8 – 25.6	1.95	3.90	µmol/L	Colorimetric method. Endpoint.
	121	99.2 – 143	10.9	21.8	µg/dL	
Magnesio MR <i>Magnesium MR</i>	1.25	1.03 – 1.48	0.11	0.23	mmol/L	Colorimetric method Calmagita
	3.04	2.49 – 3.59	0.27	0.55	mg/dL	
Magnesio BR <i>Magnesium BR</i>	1.00	0.88 – 1.13	0.06	0.13	mmol/L	Colorimetric method Calmagita
	2.43	2.12 – 2.74	0.15	0.31	mg/dL	
Potasio <i>Potassium</i>	3.94	3.55 – 4.33	0.20	0.39	mmol/L	ISE method—direct ISE method—indirect
	4.38	3.94 – 4.82	0.22	0.44	mmol/L	
Potasio <i>Potassium</i>	4.48	4.02 – 4.94	0.23	0.46	mmol/L	Colorimetric method KINETIC

HUMAN MULTISERA NORMAL	LOT N° 19242	EXP 2026-05
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COMPONENTE COMPONENT	VALOR TARGET	RANGO RANGE	Analytical uncertainty		UNIDAD UNIT	MÉTODO METHOD
			1 SD	2 SD		
Proteínas Totales <i>Total Protein</i>	59.8	47.8 – 71.8	5.98	12.0	g/L	Colorimetric method Biuret endpoint
	5.98	4.78 – 7.18	0.60	1.20	g/dL	
Sodio <i>Sodium</i>	136	122 – 150	6.80	13.6	mmol/L	ISE method-direct ISE method-indirect
	146	131 – 161	7.30	14.6	mmol/L	
Sodio <i>Sodium</i>	144	132 – 156	5.76	11.5	mmol/L	Colorimetric method KINETIC
	49.2	38.9 – 59.6	5.17	10.3	µmol/L	
TIBC	275	217 – 333	28.9	57.8	µg/dL	Colorimetric method Saturation
Triglicéridos <i>Triglycerides</i>	1.06	0.89 – 1.23	0.08	0.17	mmol/L	Enzymatic colorimetric method Lipase/GOD-PAP no correction
	93.8	78.8 – 109	7.50	15.0	mg/dL	
Urea <i>Urea</i>	7.33	6.23 – 8.42	0.55	1.10	mmol/L	Enzymatic colorimetric. Berthelot UV Enzymatic method
	44.0	37.4 – 50.6	3.30	6.60	mg/dL	
Ácido úrico <i>Uric acid</i>	343	297 – 388	22.6	45.2	µmol/L	Enzymatic colorimetric method Uricase / Peroxidase
	5.76	5.00 – 6.52	0.38	0.76	mg/dL	

ENZIMAS / ENZYMES

COMPONENTE COMPONENT	VALOR TARGET	RANGO RANGE	Analytical uncertainty		UNIDAD UNIT	MÉTODO METHOD
			1 SD	2 SD		
Fosfatasa alcalina <i>Alkaline phosphatase</i>	264	224 – 304	20.1	40.1	U/L	Diethanolamine buffer DEA. 37°C. Diethanolamine buffer DEA. 30°C. Diethanolamine buffer DEA. 25°C. Colorimetric
	206	175 – 238	15.7	31.3		
	169	144 – 195	12.9	25.7		
ALT/GPT	37.8	30.2 – 45.4	3.78	7.56	U/L	TRIS no P5PIFCC/sfbc 37°C. UV TRIS no P5PIFCC/sfbc 30°C. UV TRIS no P5PIFCC/sfbc 25°C. UV
	28.0	22.4 – 33.6	2.80	5.59		
	21.3	17.1 – 25.6	2.13	4.26		
α-Amilasa <i>α-Amylase</i>	94.5	79.9 – 109	7.28	14.6	U/L	Total. R. Liquid stable pNPG 37°C
AST/GOT	37.9	30.2 – 45.6	3.87	7.73	U/L	TRIS no P5PIFCC/sfbc 37°C. UV TRIS no P5PIFCC/sfbc 30°C. UV TRIS no P5PIFCC/sfbc 25°C. UV
	25.8	20.5 – 31.0	2.63	5.26		
	18.2	14.5 – 21.9	1.86	3.71		
Colinesterasa <i>Cholinesterase</i>	5950	4760 – 7140	595	1190	U/L	Enzymatic colorimetric Butyrylthiocholin (37°C)
CK Total	242	198 – 286	21.8	43.6	U/L	CK-NAC substrate start (dgko) 37°C. CK-NAC substrate start (dgko) 30°C. CK-NAC substrate start (dgko) 25°C. UV enzymatic
	151	124 – 178	13.6	27.2		
	103	84.7 – 122	9.30	18.6		
GGT GGT	50.7	43.1 – 58.3	3.80	7.61	U/L	G Glutamyl-3-Carbo-4-nitroanilide 37°C. G Glutamyl-3-Carbo-4-nitroanilide 30°C. G Glutamyl-3-Carbo-4-nitroanilide 25°C. Colorimetric enzymatic method
	39.9	33.9 – 45.8	2.99	5.98		
	31.7	26.9 – 36.4	2.38	4.75		
LDH LDH	430	366 – 495	32.3	64.5	U/L	Pyruvate→Lactate SFBC 37°C Pyruvate→Lactate SFBC 30°C Pyruvate→Lactate SFBC 25°C
	311	264 – 358	23.3	46.6		
	218	185 – 251	16.4	32.7		
Lipasa <i>Lipase</i>	39.0	31.2 – 46.8	3.90	7.80	U/L	Enzymatic colorimetric 37°C