

HUMAN MULTISERA NORMAL	LOT Nº 19147	EXP 2024-11
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### SUSTRATOS / SUBSTRATES

COMPONENTE COMPONENT	VALOR TARGET	RANGO RANGE	Analytical uncertainty		UNIDAD UNIT	MÉTODO METHOD
			1 SD	2 SD		
Albúmina <i>Albumin</i>	40.0 4.00	33.8 – 46.2 3.38 – 4.62	3.08 0.31	6.16 0.62	g/L g/dL	Colorimetric method Bromocresol Green (BCG)
Bilirubina Directa <i>Direct Bilirubin</i>	10.8 0.63	8.55 – 13.0 0.50 – 0.76	1.11 0.06	2.22 0.13	µmol/L mg/dL	Colorimetric method with sample blank Modified Jendrassik & Grof
	12.7 0.74	9.80 – 15.5 0.57 – 0.91	1.44 0.08	2.89 0.17	µmol/L mg/dL	Colorimetric method without sample blank Modified Jendrassik & Grof
	22.6 1.33	17.7 – 27.4 1.04 – 1.60	2.42 0.14	4.83 0.28	µmol/L mg/dL	DIRECT DPD Colorimetric method
	32.8 1.92	26.2 – 39.5 1.53 – 2.31	3.32 0.19	6.63 0.39	µmol/L mg/dL	Colorimetric method with sample blank Modified Jendrassik & Grof
Bilirubina Total <i>Total Bilirubin</i>	27.7 1.62	21.8 – 33.6 1.27 – 1.97	2.96 0.17	5.93 0.35	µmol/L mg/dL	Colorimetric method without sample blank Modified Jendrassik & Grof
	Calcio OCC <i>Calcium OCC</i>	1.93 7.70	1.73 – 2.12 6.93 – 8.47	0.10 0.39	0.19 0.77	mmol/L mg/dL
Calcio Arsenazo <i>Calcium Arsenazo</i>	2.33 9.30	2.09 – 2.56 8.37 – 10.2	0.12 0.47	0.23 0.93	mmol/L mg/dL	Colorimetric , Arsenazo III
Cloruros <i>Chloride</i>	93.0	85.6 – 100	3.72	7.44	mmol/L	Colorimetric method
Colesterol total <i>Total Cholesterol</i>	4.51 174	3.92 – 5.09 151 – 197	0.29 11.3	0.59 22.6	mmol/L mg/dL	Enzymatic colorimetric method Cholesterol Oxidase
Creatinina <i>Creatinine</i>	115 1.30	91.7 – 138 1.04 – 1.56	11.6 0.13	23.2 0.26	µmol/L mg/dL	Kinetic colorimetric method. Creatinine Enzymatic
Fósforo inorgánico <i>Phosphorus inorganic</i>	1.52 4.70	1.29 – 1.75 4.00 – 5.41	0.11 0.35	0.23 0.71	mmol/L mg/dL	Phosphomolybdate UV method / Colorimetric method
Glucosa <i>Glucose</i>	6.33 114	5.38 – 7.28 96.9 – 131	0.47 8.55	0.95 17.1	mmol/L mg/dL	Glucose Oxidase. Endpoint. Enzymatic colorimetric method.
Hierro Ferrozine <i>Iron Ferrozine</i>	17.7 98.9	14.5 – 20.9 81.1 – 117	1.59 8.90	3.19 17.8	µmol/L µg/dL	Colorimetric method. Endpoint.
Hierro Cromazurol <i>Iron Cromazurol</i>	19.7 110	16.1 – 23.2 90.2 – 130	1.77 9.90	3.54 19.8	µmol/L µg/dL	Colorimetric method. Endpoint.
Magnesio MR <i>Magnesium MR</i>	0.98 2.39	0.81 – 1.16 1.96 – 2.82	0.09 0.22	0.18 0.43	mmol/L mg/dL	Colorimetric method Calmagita
Magnesio BR <i>Magnesium BR</i>	1.05 2.54	0.91 – 1.18 2.22 – 2.86	0.07 0.16	0.13 0.32	mmol/L mg/dL	Colorimetric method Calmagita
Potasio <i>Potassium</i>	4.16 3.92	3.83 – 4.49 3.61 – 4.23	0.17 0.16	0.33 0.31	mmol/L mmol/L	ISE method–direct ISE method–indirect
Potasio <i>Potassium</i>	4.36	3.92 – 4.80	0.22	0.44	mmol/L	Colorimetric method KINETIC



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			1 SD	2 SD		
Proteínas Totales <i>Total Protein</i>	60.9 6.09	48.7 – 73.1 4.87 – 7.31	6.09 0.61	12.2 1.22	g/L g/dL	Colorimetric method Biuret endpoint
Sodio <i>Sodium</i>	147 136	140 – 154 129 – 143	3.5 3.5	7.0 7.0	mmol/L mmol/L	ISE method–direct ISE method–indirect
Sodio <i>Sodium</i>	132	121 – 143	5.28	10.6	mmol/L	Colorimetric method KINETIC
TIBC	37.8 211	29.8 – 45.7 167 – 255	3.97 22.2	7.93 44.3	µmol/L µg/dL	Colorimetric method Saturation
Triglicéridos <i>Triglycerides</i>	1.03 91.0	0.86 – 1.19 76.4 – 106	0.08 7.28	0.16 14.6	mmol/L mg/dL	Enzymatic colorimetric method Lipase/GOD–PAP no correction
Urea <i>Urea</i>	7.44 44.7	6.33 – 8.56 38.0 – 51.4	0.56 3.35	1.12 6.71	mmol/L mg/dL	Enzymatic colorimetric. Berthelot UV Enzymatic method
Ácido úrico <i>Uric acid</i>	356 5.98	309 – 403 5.19 – 6.77	23.5 0.39	47.0 0.79	µmol/L mg/dL	Enzymatic colorimetric method Uricase / Peroxidase

### ENZIMAS / ENZYMES

COMPONENTE COMPONENT	VALOR TARGET	RANGO RANGE	Analytical uncertainty		UNIDAD UNIT	MÉTODO METHOD
			1 SD	2 SD		
Fosfatasa ácida <i>Acid phosphatase</i>	27.0 30.8	15.6 – 38.4 20.7 – 40.9	5.70 5.05	11.4 10.1	U/L U/L	Prostatic. 1–Naphthyl Phosphatase Kinetic 37°C Total. 1–Naphthyl Phosphatase Kinetic 37°C With Pentanediol Activation. Colorimetric method
Fosfatasa alcalina <i>Alkaline phosphatase</i>	219 171 140	186 – 252 145 – 197 119 – 162	16.6 13.0 10.7	33.3 26.0 21.3	U/L	Diethanolamine buffer DEA. 37°C. Diethanolamine buffer DEA. 30°C. Diethanolamine buffer DEA. 25°C. Colorimetric
ALT/GPT	39.0 28.9 22.0	31.2 – 46.8 23.1 – 34.6 17.6 – 26.4	3.90 2.89 2.20	7.80 5.77 4.40	U/L	TRIS no P5PIFCC/sfbc 37°C. UV TRIS no P5PIFCC/sfbc 30°C. UV TRIS no P5PIFCC/sfbc 25°C. UV
α–Amilasa <i>α–Amylase</i>	93.0	78.7 – 107	7.16	14.3	U/L	Total. R. Liquid stable pNPG 37°C
AST/GOT	40.0 27.2 19.2	31.8 – 48.2 21.7 – 32.7 15.3 – 23.1	4.08 2.77 1.96	8.16 5.55 3.92	U/L	TRIS no P5PIFCC/sfbc 37°C. UV TRIS no P5PIFCC/sfbc 30°C. UV TRIS no P5PIFCC/sfbc 25°C. UV
Colinesterasa <i>Cholinesterase</i>	5557	4450 – 6670	556	1110	U/L	Enzymatic colorimetric Butyrylthiocholin (37°C)
CK Total	214 134 91.4	175 – 253 110 – 158 74.9 – 108	19.3 12.0 8.22	38.5 24.1 16.4	U/L	CK–NAC substrate start (dgkc) 37°C. CK–NAC substrate start (dgkc) 30°C. CK–NAC substrate start (dgkc) 25°C. UV enzymatic
GGT GGT	49.0 38.5 30.6	41.7 – 56.4 32.7 – 44.3 26.0 – 35.2	3.68 2.89 2.30	7.35 5.78 4.59	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
LDH LDH	378 273 192	321 – 435 232 – 314 163 – 220	28.4 20.5 14.4	56.7 41.0 28.7	U/L	Pyruvate→Lactate SFBC 37°C Pyruvate→Lactate SFBC 30°C Pyruvate→Lactate SFBC 25°C
Lipasa <i>Lipase</i>	38.8	31.0 – 46.6	3.88	7.76	U/L	Enzymatic colorimetric 37°C

