

Approved and current. Effective starting 1/23/2023. BR.772 (version 5.0) Standard Ref Ranges and Alert Values  
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Analyte	Sex	Age	Units	Lower Limit of Normal	Upper Limit of Normal	*URMC Standard Call Alert Value (Low)	*URMC Standard Call Alert Value (High)	Internal Use Only - Do not Share with Clients Test ID	Internal Use Only - Do not Share with Clients ClinAxys Age Range
Adrenocorticotrophic Hormone, ACTH	M/F	Up to 200Y	pg/mL	7.0	63.0			ACTH	
Albumin	M/F	Up to 200Y	g/dL	3.5	5.2			ALB	
Alk Phos	M/F	0-5D	U/L	110	300			ALK	
Alk Phos	M/F	6D-3Y	U/L	145	320			ALK	0 - 4
Alk Phos	M/F	4Y-6Y	U/L	150	380			ALK	4 - 7
Alk Phos	M/F	7Y-9Y	U/L	175	420			ALK	7 - 10
Alk Phos	F	10Y-11Y	U/L	130	560			ALK	10 - 12
Alk Phos	F	12Y-13Y	U/L	105	420			ALK	12 - 14
Alk Phos	F	14Y-15Y	U/L	70	230			ALK	14 - 16
Alk Phos	F	16Y-19Y	U/L	50	130			ALK	16 - 20
Alk Phos	F	≥ 20Y	U/L	35	105			ALK	20 - 200
Alk Phos	M	10Y-11Y	U/L	135	530			ALK	10 - 12
Alk Phos	M	12Y-13Y	U/L	200	495			ALK	12 - 14
Alk Phos	M	14Y-15Y	U/L	130	525			ALK	14 - 16
Alk Phos	M	16Y-19Y	U/L	65	260			ALK	16 - 20
Alk Phos	M	≥ 20Y	U/L	40	130			ALK	20 - 200
ALT (SGPT)	F	Up to 200Y	U/L	0	35			ALT	
ALT (SGPT)	M	Up to 200Y	U/L	0	50			ALT	
Ammonia	M/F	Up to 200Y	µmol/L	10	47			AMM	
Amylase	M/F	Up to 200Y	U/L	28	100			AMY	
Anion Gap	M/F	Up to 200Y		7	16			GAP	
AST (SGOT)	F	Up to 200Y	U/L	0	35			AST	
AST (SGOT)	M	Up to 200Y	U/L	0	50			AST	
C3	M/F	Up to 200Y	mg/dL	90	180			C3	
C4	M/F	Up to 200Y	mg/dL	10	40			C4	

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Calcium	F	0Y to <10Y	mg/dL	9.0	10.8	≤6.5	≥13.0	CA	
Calcium	F	10Y-16Y	mg/dL	8.5	9.8	≤6.5	≥13.0	CA	
Calcium	F	17Y-19Y	mg/dL	8.4	9.9	≤6.5	≥13.0	CA	
Calcium	F	20Y-25Y	mg/dL	8.4	9.9	≤6.5	≥13.0	CA	
Calcium	F	>25Y-44Y	mg/dL	8.8	10.2	≤6.5	≥13.0	CA	
Calcium	F	≥45Y	mg/dL	8.6	10.2	≤6.5	≥13.0	CA	
Calcium	M	0Y to <10Y	mg/dL	9.0	10.8	≤6.5	≥13.0	CA	
Calcium	M	10Y-16Y	mg/dL	8.4	10.0	≤6.5	≥13.0	CA	
Calcium	M	17Y-19Y	mg/dL	8.8	10.1	≤6.5	≥13.0	CA	
Calcium	M	20Y-25Y	mg/dL	8.4	10.0	≤6.5	≥13.0	CA	
Calcium	M	>25Y-44Y	mg/dL	9.0	10.3	≤6.5	≥13.0	CA	
Calcium	M	≥45Y	mg/dL	8.6	10.2	≤6.5	≥13.0	CA	
Chloride	M/F	Up to 200Y	mmol/L	96	108	≤80	≥120.0	CL	
CO2 <sup>1</sup>	M/F	Up to 200Y	mmol/L	20	28	≤10	≥40	CO2	
Cortisol	M/F	< 18Y	ug/dL	3.4	34.5			CORT	
Cortisol	M/F	> 18Y 6-10am	ug/dL	6.0	18.4			CORT	
Cortisol	M/F	> 18Y 4-8pm	ug/dL	2.7	10.5			CORT	
Creatine Kinase (CK)	F	Up to 200Y	U/L	26	192			CK	
Creatine Kinase (CK)	M	Up to 200Y	U/L	39	308			CK	
Creatinine	F	≥ 22Y	mg/dL	0.51	0.95			CREAT	
Creatinine	M	≥ 22Y	mg/dL	0.67	1.17			CREAT	
Creatinine	M/F	0D-4D	mg/dL	0.30	1.00			CREAT	
Creatinine	M/F	5D-12Y	mg/dL	0.20	0.70			CREAT	

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Creatinine	M/F	13Y-21Y	mg/dL	0.50	1.00			CREAT	
Creatinine Clearance (urine)	F	Up to 200Y	mL/min	87	107			CRCL	
Creatinine Clearance (urine)	M	Up to 200Y	mL/min	107	139			CRCL	
CRP, High Sensitivity	M/F	Up to 200Y	mg/L	1.0	3.0			HSCRCP	
Direct Bilirubin <sup>2</sup>	M/F	0D-6D	mg/dL	0.0	0.6			DB	
Direct Bilirubin <sup>2</sup>	M/F	≥ 7D	mg/dL	0.0	0.3			DB	
Ferritin	F	Up to 200Y	ng/mL	10	120			FER	
Ferritin	M	Up to 200Y	ng/mL	20	250			FER	
Folate	M/F	Up to 200Y	ng/mL		>4.5			FOL	
GFR <sup>3</sup>	M/F	Up to 64Y		< 60mL/min/1.73 m2 suggests kidney disease in those below the age of 65.					
GFR <sup>3</sup>	M/F	> 65Y		< 60 mL/min/1.73 m2 suggests people aged ≥65 may or may not have CKD with eGFR					
GGT	F	Up to 200Y	U/L	5	36			GGT	
GGT	M	Up to 200Y	U/L	8	61			GGT	
Glucose (Serum or Plasma)	M/F	0D-1D	mg/dL	36	110	≤25	≥325	GLU	
Glucose (Serum or Plasma)	M/F	2D-7D	mg/dL	47	117	≤40	≥325	GLU	
Glucose (Serum or Plasma)	M/F	≥ 8D	mg/dL	60	99	≤50	≥500	GLU	
HbA1c	M/F	Up to 200Y	%		≤ 5.6			HBA1N	
HCG-β (βHCG)	F	Pre-Menopause	mIU/mL	0	1			BHCG	
HCG-β (βHCG)	F	Post-Menopause	mIU/mL	0	7			BHCG	
HDL	M/F	Up to 200Y	mg/dL	40	60			HDL	
Homocysteine	M/F	Up to 200Y	umol/L	0	15			HOMCY	
Indirect Bilirubin	M/F	Up to 200Y	mg/dL	0.1	1.0			IBIL	
Insulin	M/F	Up to 200Y	uIU/mL	3	25			INSUL	
Iron	F	Up to 200Y	ug/dL	34	165			FE	
Iron	M	Up to 200Y	ug/dL	45	170			FE	

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LD (LDH)	M/F	Up to 200Y	U/L	118	225			LD	
Lipase	M/F	Up to 200Y	U/L	13	60			LIP	
Magnesium	M/F	Up to 200Y	mg/dL	1.6	2.5	≤1.0	≥4.8	MG	
NT-ProBNP	M/F	0-49Y	pg/mL	0	450			BNP	
NT-ProBNP	M/F	50-75Y	pg/mL	0	900			BNP	
NT-ProBNP	M/F	76-200Y	pg/mL	0	1800			BNP	
Phosphorous	M/F	0D-1D	mg/dL	4.2	8.5	≤1.1	≥9.0	PO4	
Phosphorous	M/F	2D-12Y	mg/dL	4.0	6.5	≤1.1	≥9.0	PO4	
Phosphorous	M/F	≥13Y	mg/dL	2.7	4.5	≤1.1	≥9.0	PO4	
Potassium	M/F	0D-3M	mmol/L	4.0	6.4	≤2.8	≥7.0	K	
Potassium	M/F	4M-1Y	mmol/L	3.7	5.6	≤2.8	≥6.2	K	
Potassium	M/F	2Y-16Y	mmol/L	3.6	5.2	≤2.8	≥6.2	K	
Potassium	M/F	≥ 17Y	mmol/L	3.3	5.1	≤2.8	≥6.2	K	
Prealbumin	M/F	Up to 200Y	mg/dL	20	40			PALB	
Pregnancy, Serum (Qual)/Urine	F	Adult		NEG				SPREG	
Sodium	M/F	Up to 200Y	mmol/L	133	145	≤120	≥160	NA	
TIBC	M/F	Up to 200Y	ug/dL	250	450			TIBC	
Total Bilirubin	M/F	0D-1D	mg/dL	2.0	6.0		≥15.0	TB	
Total Bilirubin	M/F	2D	mg/dL	6.0	7.0		≥15.0	TB	
Total Bilirubin	M/F	3D	mg/dL	4.0	12.0		≥15.0	TB	
Total Bilirubin	M/F	4D-7D	mg/dL	0.0	1.4		≥15.0	TB	
Total Bilirubin	M/F	8D	mg/dL	0.0	1.4			TB	
Total Bilirubin	M/F	≥ 9D	mg/dL	0.0	1.2			TB	
Total Protein	M/F	Up to 200Y	g/dL	6.3	7.7			TP	
Transferrin	M/F	Up to 200Y	mg/dL	200	360			TRANS	
High Sensitivity Troponin T	M/F	Up to 200Y	ng/L	6.0	14.0		≥52	HS-TnT	
TSH	M/F	0-11M	uIU/mL	1.36	8.80			TSH	
TSH	M/F	1Y-6Y	uIU/mL	0.85	6.50			TSH	
TSH	M/F	7Y-12Y	uIU/mL	0.28	4.30			TSH	
TSH	M/F	≥13Y	uIU/mL	0.27	4.20			TSH	
Urate, Serum	F	Up to 200Y	mg/dL	2.7	6.8			URIC	
Urate, Serum	M	Up to 200Y	mg/dL	3.9	9.0			URIC	
Urea Nitrogen	M/F	Up to 200Y	mg/dL	6	20			BUN	
Vitamin B12	M/F	Up to 200Y	pg/mL	232	1245			VB12	

<sup>1</sup> The carbon dioxide content of collected human blood is supersaturated relative to the atmosphere and is therefore susceptible to rapid loss. The total carbon dioxide of serum has been shown to decrease during ambient

<sup>2</sup> Any Direct Bilirubin result of <.2mg/dL is lower than the limit of quantitation and will be results as <.2 mg/dL

<sup>3</sup> eGFR by creatinine was calculated using the 2021 CKD-EPI reft equation