

16.1.10 Documentation of Inter-Laboratory Standardization Methods and Quality Assurance Procedures if Used

[Appendix 16.1.10.1 Clinical Laboratory Reference Ranges](#)

Appendix 16.1.10.1 Clinical Laboratory Reference Ranges

Site	Laboratory Group	Test Name	Sex	Age Category	Reference Range	Unit
001	Serum Chemistry	Alanine Aminotransferase			10-67	IU/L
		Albumin			39-50	g/L
		Alkaline Phosphatase	FEMALE	26-99	37-115	IU/L
			MALE	26-99	45-120	IU/L
		Aspartate Aminotransferase			14-48	IU/L
		Bilirubin			0.2-1.6	mg/dL
		Carbon Dioxide			24-33.2	mmol/L
		Choriogonadotropin Beta	FEMALE		NEGATIVE	
		Creatinine	FEMALE		44.209-79.576	umol/L
			MALE		61.008-106.101	umol/L
		FSH	FEMALE		40-153	IU/L
		Glucose			4.1-5.8	mmol/L
		Potassium			3.7-5.2	mmol/L
		Protein			6.3-8.1	g/dL
		Sodium			135-143	mmol/L
		Urate	FEMALE		2.3-5.9	mg/dL
			MALE		3.5-7.8	mg/dL
		Urea Nitrogen	FEMALE		6-17	mg/dL
			MALE		7-20	mg/dL
	Hematology	Absolute Basophils			0-0.1	thou/uL
		Absolute Eosinophils			0-0.5	thou/uL
		Absolute Lymphocytes			1.1-3.2	thou/uL
		Absolute Monocytes			0.3-0.9	thou/uL
		Absolute Neutrophils			1.6-7.7	thou/uL
		Basophils			0-2	%
		Eosinophils			0.5-7.4	%
		Hematocrit	FEMALE		3.53-4.7	v/v
			MALE		4.06-5.23	v/v
		Hemoglobin	FEMALE		120-159	g/L
			MALE		136-174	g/L
		Lymphocytes			15.8-45.8	%
		Monocytes			4.9-12.8	%
		Neutrophils			38.4-74.2	%
		Platelet Count			155-361	thou/uL
		Red Blood Cell Count	FEMALE		3.95-5.21	mil/uL

Note: Site: 001 = Lincoln, 002 = High Point

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Site	Laboratory Group	Test Name	Sex	Age Category	Reference Range	Unit
001	Hematology	Red Blood Cell Count	MALE		4.43-5.81	mil/uL
		White Blood Cell Count			3.7-11.5	thou/uL
	Urinalysis	Bacteria			NEGATIVE	/LPF
		Bilirubin			NEGATIVE	
		Casts			0-1	
		Choriogonadotropin Beta			NEGATIVE	
		Glucose			NEGATIVE	
		Ketones	FEMALE		NEG, TRACE	
		Leukocyte Esterase			NEG, TRACE	
		Nitrite			NEGATIVE	
		Occult Blood			NEG, TRACE	
					NEGATIVE	
		Protein	MALE		NEG, TRACE	/HPF
		Red Blood Cell Count			0-3	
		Specific Gravity			1.005-1.03	
		Urobilinogen			NEGATIVE	
		White Blood Cell Count			0-7	
		pH, Urine			5-8	/HPF
	Urine Drug Screening	Amphetamine	MALE		NEGATIVE	
		Cannabinoids			NEGATIVE	
					POSITIVE	
		Cocaine			NEGATIVE	
		Ethanol			NEGATIVE	
		Methamphetamine			NEGATIVE	
		Opiates			NEGATIVE	
	Other	Carbon Monoxide	FEMALE		5 - 44	ppm
		Cotinine	MALE		5 - 53	ppm
					>=500	ug/L

Note: Site: 001 = Lincoln, 002 = High Point

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Appendix 16.1.10.1 Clinical Laboratory Reference Ranges

Site	Laboratory Group	Test Name	Sex	Age Category	Reference Range	Unit
002	Serum Chemistry	Alanine Aminotransferase	FEMALE		0-32	IU/L
			MALE		0-44	IU/L
		Albumin		<60	35-55	g/L
				>=60	36-48	g/L
		Alkaline Phosphatase			39-117	IU/L
		Aspartate Aminotransferase			0-40	IU/L
		Bilirubin			0-1.2	mg/dL
		Carbon Dioxide			20-29	mmol/L
		Creatinine	FEMALE		50.398-88.417	umol/L
			MALE		67.197-112.29	umol/L
		FSH	FEMALE		FSHROF	IU/L
		Glucose			3.6-5.5	mmol/L
		Potassium			3.5-5.2	mmol/L
		Protein			6-8.5	g/dL
		Sodium			134-144	mmol/L
		Urate	FEMALE		2.5-7.1	mg/dL
			MALE		3.7-8.6	mg/dL
		Urea Nitrogen			6-20	mg/dL
					6-24	mg/dL
					8-27	mg/dL
	Hematology	Absolute Basophils			0-0.2	thou/uL
		Absolute Eosinophils			0-0.4	thou/uL
		Absolute Lymphocytes			0.7-3.1	thou/uL
		Absolute Monocytes			0.1-0.9	thou/uL
		Absolute Neutrophils			1.4-7	thou/uL
		Basophils			NOT ESTAB.	%
		Eosinophils			NOT ESTAB.	%
		Hematocrit	FEMALE		3.4-4.66	v/v
			MALE		3.75-5.1	v/v
		Hemoglobin	FEMALE		111-159	g/L
			MALE		130-177	g/L
		Lymphocytes			NOT ESTAB.	%
		Monocytes			NOT ESTAB.	%
		Neutrophils			NOT ESTAB.	%
		Platelet Count			150-379	thou/uL

Note: Site: 001 = Lincoln, 002 = High Point

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Appendix 16.1.10.1 Clinical Laboratory Reference Ranges

Site	Laboratory Group	Test Name	Sex	Age Category	Reference Range	Unit
002	Hematology	Red Blood Cell Count	FEMALE		3.77-5.28	mil/uL
			MALE		4.14-5.8	mil/uL
		White Blood Cell Count			3.4-10.8	thou/uL
	Urinalysis	Bacteria			NONE SEEN/FEW	
		Bilirubin			NEGATIVE	
		Choriogonadotropin Beta	FEMALE		NEGATIVE	
		Epithelial Cells			0 - 10	/HPF
		Glucose			NEGATIVE	
		Hyaline Casts			NONE SEEN	/LPF
		Ketones			NEGATIVE	
		Leukocyte Esterase			NEGATIVE	
		Mucous Threads			NOT ESTAB.	
		Nitrite			NEGATIVE	
		Occult Blood			NEGATIVE	
		Protein			NEGATIVE/TRACE	
		Red Blood Cell Count			0 - 2	/HPF
		Specific Gravity			1.005-1.03	
		Urobilinogen			0.2-1	mg/dL
		White Blood Cell Count			0 - 5	/HPF
		pH, Urine			5-7.5	
	Urine Drug Screening	Amphetamine			NEGATIVE	
		Cannabinoids			NEGATIVE	
					POSITIVE	
		Cocaine			NEGATIVE	
		Methamphetamine			NEGATIVE	
			FEMALE		POSITIVE	
	Other	Opiates			NEGATIVE	
		Carbon Monoxide	FEMALE		8 - 76	ppm
			MALE		11 - 60	ppm
		Cotinine			>=500	ug/L
		Ethanol			NEGATIVE	

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