

**ST. CHARLES BEND & REDMOND LABORATORY
REFERENCE RANGES**

Bend: 2500 NE Neff Road, Bend, Oregon 97701, 541-706-2798

Redmond: 1253 NW Canal, Redmond, Oregon 97756, 541-526-6605

Effective Expire April 2023 – April 2024 (updated 3-16-2023)

	Test	Unit	Low Reference		High Reference	
			Males	Females	Males	Females
H E M A T O L O G Y / C O A G	Hemoglobin	gm/dL	13.5	11.7	17.3	15.5
	Hematocrit	%	39.0	34.0	50.0	45.0
	Red Blood Cell Count	x10 ⁶ /mCL	4.40	3.90	5.70	5.20
	White Blood Cell Count	x10 ³ /mCL	4.0	4.0	10.0	10.0
	Platelet Count	x10 ³ /mCL	140	140	450	450
	Leukocyte Differential					
	Neutrophils	%/ABSx10 ³ /mCL	43/1.8	43/1.8	75/7.7	75/7.7
	Eosinophils	%/ABSx10 ³ /mCL	0.0/0.0	0.0/0.0	5.0/0.5	5.0/0.5
	Basophils	%/ABSx10 ³ /mCL	0.2/0.0	0.2/0.0	1.2/0.1	1.2/0.1
	Lymphocytes	%/ABSx10 ³ /mCL	19/1.2	19/1.2	47/3.7	47/3.7
	Monocytes	%/ABSx10 ³ /mCL	2/0.2	2/0.2	12.0/0.8	12.0/0.8
	Cell indices	MCV/MCH/MCHC	81/26.5/32	82/26.5/32	95/34/36	99/34/36
	PT	Sec	11.8	11.8	13.9	13.9
	PTT	Sec	23.4	23.4	35.3	35.3
INR (Coumadin)	SEE PAGE TWO FOR INR					
INR (No Therapy)		0.9	0.9	1.2	1.2	
B L O O D C H E M I S T R Y	ALT	U/L	5	5	41	33
	Albumin	gm/dL	3.5	3.5	4.8	4.8
	AST	U/L	5	5	40	32
	Alkaline phosphatase	U/L	35	35	120	100
	Beta HCG	SEE PAGE TWO FOR Beta HCG				
	Bilirubin, Direct	mg/dL	0.1	0.1	0.5	0.5
	Bilirubin, Total	mg/dL	0.2	0.2	1.7	1.7
	Blood Urea Nitrogen (BUN)	mg/dL	8	8	20	20
	BUN/Creatinine Ratio	:1	12	12	20	20
	Calcium	mg/dL	8.6	8.6	10.6	10.6
	Carbon Dioxide	mmol/L	22	22	32	32
	Chloride	mmol/L	96	96	108	108
	Cholesterol, Total	mg/dl	-	-	200*	200*
	Creatinine Phosphokinase (CPK), Total	U/L	39	26	308	192
	Creatinine	mg/dL	0.7	0.5	1.2	1.2
	Gamma-Glutamyl Transferase (GGT)	U/L	0	0	50	30
	Glucose	mg/dL	74	74	106	106
	HCG	mIU/mL	-	-	-	5.0
	HsCRP	Mg/L	0.00	0.00	7.40	7.40
	Lactate Dehydrogenase	U/L	135	135	225	214
	Magnesium	mg/dL	1.6	1.6	2.6	2.6
Phosphorus, Inorganic	mg/dL	2.4	2.4	4.7	4.7	
Potassium (Serum)	MMol/L	3.5	3.4	5.0	4.9	
Protein, Total	gm/dL	6.1	6.1	7.9	7.9	
Sodium	mMol/L	135	135	147	147	
Triglycerides	mg/dL	-	-	<150	<150	
Uric Acid	mg/dL	4.8	2.6	8.7	8.0	
U R I N E	Bilirubin				NEG	NEG
	Glucose				NEG	NEG
	Ketones				NEG	NEG
	Leucocyte Esterase				**trace	**trace
	Nitrate				NEG	NEG
	Occult Blood		NEG	NEG	trace	Trace

PH		5.0	5.0	8.0	8.0
Protein		NEG	NEG	trace	Trace
Urobilinogen	mg/dL	NEG	NEG	1	1
WBC	/hpf	0	0	10	10
Specific Gravity		1.003	1.003	1.039	1.039

* < 200 is the desirable range.

**Leukocyte Esterase "trace" must be evaluated in combination with the microscopic exam of urine sediment.

LABORATORY REFERENCE RANGES

Effective April 2023 – April 2024 (Updated 03-16-2023)

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INR NORMAL RANGE

INR is valid for patients on Coumadin therapy, or may be useful in the context of massive transfusion protocol.

Recommended INR Therapeutic Range for Coumadin Therapy:

Prophylaxis & treatment of venous thrombosis or pulmonary embolism.	2.0-3.0
Tissue heart valves	2.0-3.0
Acute MI	2.0-3.0
Valvular heart disease	2.0-3.0
Atrial fibrillation	2.0-3.0
Mechanical prosthetic valves (high risk)	2.5-3.5

BETA HCG Reference Range

<5 mIU/mL- Non Pregnant Females

<3 mIU/mL-Males

TUMOR MARKERS

ANALYTE REFERENCE RANGE

CA125	0-35.0 U/mL	All Age Groups Male and Female
CEA	0-5.0 ng/mL	All Age Groups Male and Female
PSA	0-3.99 ng/mL	

MISCELLANEOUS TESTS

Amylase	28 – 100 U/L
Fibrinogen	194 – 464 mg/dL
Free T3	2.5 – 3.9 pg/mL
Free T4	0.58 – 1.64 ng/dL
HDL	M: 29 – 71 mg/dL F: 35 - 85 mg/dL
LDL	0 – 129 mg/dL
Lipase	22 – 51 U/L
hs-Troponin	Males: <100 ng/L, Females: <100 ng/L
TSH	0.3 – 4.20 uIU/mL

VERIFIED 03/16/2023: Sharon Reams, MLS (ASCP), Laboratory Technical Operations Manager

Updates: Sharon Reams, 541-706-2798, ext. 2798