



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

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Effective Expire April 2019 – April 2020 (updated 1-15-2020)

	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 th	4.40	3.90	5.70	5.20
	White Blood Cell Count	x10 ³ rd	4.0	4.0	10.0	10.0
	Platelet Count	x10 ³ rd	140	140	450	450
	Leukocyte Differential					
	Neutrophils	%/ABSx10 ³ rd	43/1.8	43/1.8	75/7.7	75/7.7
	Eosinophils	%/ABSx10 ³ rd	0.0/0.0	0.0/0.0	5.0/0.5	5.0/0.5
	Basophils	%/ABSx10 ³ rd	0.2/0.0	0.2/0.0	1.2/0.1	1.2/0.1
	Lymphocytes	%/ABSx10 ³ rd	19/1.2	19/1.2	47/3.7	47/3.7
	Monocytes	%/ABSx10 ³ rd	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	1.1	1.1
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	3.4	3.4	5.1	5.1	
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	
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	5	5
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

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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

Troponin T 0.00 – 0.03 ng/mL

TSH 0.3 – 4.20 uIU/mL

VERIFIED 05-15-2019: Sharon Reams, MLS (ASCP), Laboratory Technical Operations Manager

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J:Private/Ref Range 05-2019 to 4-2020.doc