



CONSOLIDATED LABORATORY SERVICES

St. Vincent's HealthCare

ADULT NORMAL RANGES with Instrumentation

CHEMISTRY

Parameter	Male	Female		Instrumentation
A:G ratio (g/dL)	1.0 - 2.2	♀		ABBOTT ALINITY
Albumin (g/dL)	3.5-5.0	♀		ABBOTT ALINITY
Alk Phos (IU/L)	40-150	♀		ABBOTT ALINITY
ALT (SGPT) (IU/L)	11-63	♀		ABBOTT ALINITY
Amylase (IU/L)	28.00 – 100.00	♀		ABBOTT ALINITY
Anion Gap (mmol/L)	7 - 15	♀		ABBOTT ALINITY
Anti Nuclear Antibody	Neg	♀		ALERE IFA Kit/ Floures Microscope
AST (SGOT) (IU/L)	15 – 41	♀		ABBOTT ALINITY
Bilirubin, Direct (mg/dL)	0.0 - 0.4	♀		ABBOTT ALINITY
Bilirubin, Indirect (mg/dL)	0.0 – 1.1	♀		ABBOTT ALINITY
Bilirubin, Total (mg/dL)	0.2-1.2	♀		ABBOTT ALINITY
BNP (pg/mL)	10 - 100	♀		ABBOTT ALINITY
BUN (mg/dL)	7-25	♀		ABBOTT ALINITY
C Reactive Protein, Std (mg/dL)	< 0.5	♀		ABBOTT ALINITY
Calcium (mg/dL)	8.5 - 10.5	♀		ABBOTT ALINITY
Chloride (mmol/L)	98 - 110	♀		ABBOTT ALINITY
Cholesterol (mg/dL)	<200	♀		ABBOTT ALINITY
CEA (ng/mL)	0-5	♀		ABBOTT ALINITY
CO ₂ (mmol/L)	22 – 32	♀		ABBOTT ALINITY
CKMB (ng/mL)	0.0 – 6.3	♀		ABBOTT ALINITY
CK, Total (IU/L)	30-233	♀		ABBOTT ALINITY
Cortisol (mcg/dL)	AM: 6.70-22.40 PM: <10.00	♀		ABBOTT ALINITY
Creatinine, Serum (mg/dL)	0.7 - 1.5	0.7-1.5		ABBOTT ALINITY
Cystatin C, Serum (mg/L)	0.5 – 1.2	♀		Referral laboratory
Digoxin (ng/mL)	0.8-2.0	♀		ABBOTT ALINITY
Estradiol (pg/mL)	<15 - 32	Early Fol: 22-115 Mid Fol: 25-115 Ovulatory peak: 32-517 Mid Luteal: 37-246 Post Meno: <15-25		ABBOTT ALINITY
Ferritin (ng/mL)	24 – 336	♀		ABBOTT ALINITY
Folate, Serum (ng/mL)	> 5.9	♀		ABBOTT ALINITY
FSH (mIU/mL)	1.0-12	Mid-Fol phase: 3.9 – 8.8 Mid-Cycle: 4.5 – 22.5 Mid-Luteal phase: 1.8 – 5.1 Postmenopausal: 16.7 – 113.6		ABBOTT ALINITY
GGT (IU/L)	7 – 50			ABBOTT ALINITY
Glucose (mg/dL)	70 – 99	70-99		ABBOTT ALINITY
GFR (estimated)	<60			ABBOTT ALINITY
HCG, Qualitative	Negative			Cardinal Health HCG Combo Rapid

Reviewed by Brett Cantrell, M.D. - Medical Director, CLS

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HDL (mg/dL)	> 40	♀		ABBOTT ALINITY
Hepatitis B Core AB, IgM	Non reactive	♀		Abbott Architect
Hepatitis B Surface AB	Non reactive	♀		Abbott Architect
Hepatitis C AB	Non reactive	♀		Abbott Architect
Hgb A1c (%)	4.0 – 7.0	♀		Biorad Variant (HPLC)
HIV 1 / 2 AB Screen	Non reactive	♀		Abbott Architect
Insulin, Serum (mIU/mL)	1.9 – 23.0	♀		ABBOTT ALINITY
Iron, Saturation %	11 - 46	♀		(Calculation)
Iron, Total (ug/dL)	45 - 182	♀		ABBOTT ALINITY
Iron, TIBC (ug/dL)	250 - 420	♀		ABBOTT ALINITY
LDH (IU/L)	100 - 190	♀		ABBOTT ALINITY
LDL Direct (mg/dL)	<100	♀		ABBOTT ALINITY
LH (mIU/mL)	1.2 – 10.9	Mid-Fol phase: Mid-Cycle: Mid-Luteal phase: Postmenopausal:	2.1 – 10.9 19.2 – 103.0 1.2 – 12.9 10.9 – 58.6	ABBOTT ALINITY
Lipase (IU/L)	11-82	♀		ABBOTT ALINITY
Lipoprotein A (mg/dL)	< 30	♀		Referral laboratory
Magnesium (mg/dL)	1.6 - 2.5	♀		ABBOTT ALINITY
NT Pro BNP (pg/mL)	0 – 74 yrs: ≤ 124 75 yrs and older: 449 or less	♀		Electrochemiluminescent/Referral
Osmolality, Serum (mOsm/kg)	280-300	♀		Advance Instruments (Freezing Point)
Phosphorus (mg/dL)	2.5 - 4.5	♀		ABBOTT ALINITY
Potassium (mmol/L)	3.5 - 5.4	♀		ABBOTT ALINITY
Protein, Total (g/dL)	6.0 - 8.5	♀		ABBOTT ALINITY
PSA (ng/mL)	0.00 - 4.00	♀		ABBOTT ALINITY
Sodium (mmol/L)	135 - 145	♀		ABBOTT ALINITY
Testosterone (ng/dL)	168 - 746	♀		ABBOTT ALINITY
Transferrin (mg/dL)	203 - 362	♀		ABBOTT ALINITY
Triglyceride (mg/dL)	< 150	♀		ABBOTT ALINITY
Troponin I by CMIA (ng/mL)	< 0.04 Negative	♀		ABBOTT ALINITY
	0.04 – 0.30 Indeterminate			ABBOTT ALINITY
	> 0.30 Positive			
Tryptase (ug/L)	< 11.0	♀		Referral laboratory
T3, Free (pg/mL)	2.0 – 4.4	♀		ABBOTT ALINITY
T3, Total (ng/dL)	87 - 178	♀		ABBOTT ALINITY
T3, Uptake (%) - UNITS	0.69-1.41	♀		ABBOTT ALINITY
T4, Free (ng/dL)	0.6 – 1.6	♀		ABBOTT ALINITY
T4 Total (ug/dL)	6.1 – 12.2	♀		ABBOTT ALINITY

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TSH, Ultrasensitive (uIU/mL)	0.34 – 5.60	♀	ABBOTT ALINITY
Uric Acid (mg/dL)	3.5 - 8.5	♀	ABBOTT ALINITY
Vitamin B12 (pg/mL)	180 - 914	♀	ABBOTT ALINITY

URINE DRUG SCREENING

Parameter	Male	Female	Instrumentation
DRUG CLASS	POSITIVE THRESHOLD		
Amphetamines	>1000 ng/mL	♀	ABBOTT C4000
Barbiturates/metabolites	>200 ng/mL	♀	ABBOTT C4000
Benzodiazepines/metabolites	>200 ng/mL	♀	ABBOTT C4000
Cannabinoids	>50 ng/mL	♀	ABBOTT C4000
Cocaine metabolites	>300 ng/mL	♀	ABBOTT C4000
Opiates/metabolites	>300 ng/mL	♀	ABBOTT C4000
Methadone	>300 ng/mL	♀	ABBOTT C4000
Phencyclidine (PCP)	>25 ng/mL	♀	ABBOTT C4000
Fentanyl	>1 ng/mL	♀	ABBOTT C4000

Shaded Chemistry analytes and values have Normal Range and instrumentation changes from last publications

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COAGULATION – HEMATOLOGY

Basophil, Absolute (k/mcL)	0 – 0.1	♀	B/C DXH
Basophils, % - auto	0 – 2	♀	B/C DXH
D-Dimer	< 0.50	♀	IL ACL TOP 500
Eosinophil, Absolute (k/mcL)	0 – 0.45	♀	B/C DXH
Eosinophils, % - auto	0 – 7	♀	B/C DXH
Fibrinogen (mg/dL)	180 - 450	♀	IL ACL TOP 500
Hematocrit (%)	41.0 - 53.0	36.0-46.0	B/C DXH
Hemoglobin (g/dL)	13.5 - 17.5	12.0-16.0	B/C DXH
INR	Normal Range: 0.8 – 1.1 Low Intensity Range: 2.0 - 3.0 Moderate Intensity Range: 2.5 - 3.5	♀	IL ACL TOP 500
Lymphocyte, Absolute (k/mcL)	1.5 – 5	♀	B/C DXH
Lymphocytes, % - auto	25 – 45	♀	B/C DXH
MCH (pg)	25.0 - 35.0	♀	B/C DXH
MCHC (g/dL)	30.0 - 37.0	♀	B/C DXH
MCV (fL)	80.0 - 100.0	♀	B/C DXH
Monocyte, Absolute (k/mcL)	0 – 0.8	♀	B/C DXH
Monocytes, % - auto	0 – 10	♀	B/C DXH
MPV (fL)	8.8 – 12.0	8.0 – 12.0	B/C DXH
Neutrophils, Absolute (k/mcL)	1.80 – 8.00	♀	B/C DXH
Neutrophils, % – auto	36 – 70	♀	B/C DXH
Platelet Count (k/mcL)	150 - 450	♀	B/C DXH
Protome (sec)	9.4-12.5	♀	IL ACL TOP 500
PTT (sec)	25.1-36.5	♀	IL ACL TOP 500
RBC (million/mcL)	4.30 - 5.90	3.50-5.50	B/C DXH
RDW (%)	11.5 – 14.5	♀	B/C DXH
Retic Absolute (k/mcL)	30 - 170	♀	
Retic Automated %	0.7 - 2.8	♀	B/C DXH
Sed Rate (mm/hr)	0 - 50 years: 0 -15 > 50 years: 0 - 20	0 - 50 years: 0 - 20 > 50 years: 0 - 30	ESR STAT PLUS
Thrombin Time (sec)	10.3 – 16.6	♀	ACL TOP
WBC (k/mm ³)	4.5 - 11.0	♀	B/C DXH

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URINE - URINALYSIS

Bacteria	None seen	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Bilirubin	Neg	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Cast (Hyaline/lpf)	0-5	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Cast (non-Hyaline/lpf)	0	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Creatinine, 24 hr urine (mg/24 hr)	1000 – 2500	♀	B/C AU 5800/AU680
Creatinine, Urine (Random) (mg/dL)	No calculated normal ranges are available	♀	B/C AU 5800/AU680
Crystals	Neg	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Glucose	Neg	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Hgb (Blood)	Neg	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Ketones	Neg	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Leukocyte Esterase	Neg	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
pH	5.0 – 8.0	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Protein	Neg	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Protein, 24 hr urine (mg/24 hr)	0 – 150	♀	B/C AU 5800/AU680
Protein, Urine Quant (Random) mg/dL	No calculated normal ranges are available	♀	B/C AU 5800/AU680
RBC (HPF)	0 – 5	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Spec gravity	1.005 - 1.035	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Squamous epith (HPF)	0 – 5	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
Urobilinogen (mg/dL)	<2.0	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination
WBC (HPF)	0 - 5	♀	B/C (IRIS) IQ Sprint 200 & Aution Max AX4280 Combination

Performing Laboratory:
Ascension St. Vincent's Riverside d/b/a
Consolidated Laboratory Services
1 Shircliff Way
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