

Guidelines for Specimen Collection and Labeling

Instrument: Alpha Wassermann ACE Alera

TEST (TEST CODE):

Renal Function Panel (RFP)

(ALB, BUN, Ca, Cl, CO₂, CREAT, GLU, K, Na, PO₄)

COLLECTION INSTRUCTIONS:

Fasting is recommended but not required.

SPECIMEN TYPE:

Whole Blood

COLLECTION CONTAINER:

Gold top tube (SST), Red top tube (clot activator), Green top tube with gel barrier (lithium heparin), Green top tube (lithium heparin) or Red top microtainer/bullet (no additive)



COLLECTION AMOUNTS:

Preferred: 4.0 mL

Minimum: 2.0 mL

Pediatric: 1 full red top microtainer/bullet (no additive)

REJECTION CRITERIA:

Hemolyzed specimens are unacceptable.

COLLECTION TIMING:

Separate serum from cells ASAP or within 2 hours of collection.

PROCESSING SPECIMENS:

Serum/Plasma

PROCESSED AMOUNTS:

Preferred: 2.0 mL

Minimum: 1.0 mL

PROCESSING INSTRUCTIONS:

Allow red top or SST to clot for 20-30 minutes.

CRITICAL: Centrifuge specimen to separate serum/plasma from cells within 2 hours of collection. If using non-gel barrier tubes, aliquot 2.0 ml (min 1.0 ml) serum/plasma into transport tube. Refrigerate.

SPECIMEN STORAGE/STABILITY:	Temperature	Stability
	Ambient	1 day(s)
	Refrigerated	3 day(s)
	Frozen	4 day(s)
SHIPPING INSTRUCTIONS:	Refrigerate specimen during transportation.	
REFERENCE INTERVAL:		
	ALB:	
	Female (0 - 1 years):	2.7-4.5 gm/dL
	(>1 years):	3.4-4.7 gm/dL
	Male (0 - 1 years):	2.7-4.5 gm/dL
	(>1 years):	3.4-4.7 gm/dL
	BUN:	
	Female:	7 – 31 mg/dL
	Male:	7 – 31 mg/dL
	CA:	
	Female (0-8 days):	7.6-11.3 mg/dL
	(>8 days):	8.4-10.4 mg/dL
	Male (0-8 days):	7.6-11.3 mg/dL
	(>8 days):	8.4-10.4 mg/dL
	CL:	
	Female:	98-111 mmol/L
	Male:	98-111 mmol/L
	CO₂:	
	Female (0-19 years):	18-28 mmol/L
	(>19 years):	20-30 mmol/L
	Male (0-19 years):	18-28 mmol/L
	(>19 years):	20-30 mmol/L
	CREAT:	
	Female (0-30 days):	0.70-1.20 mg/dL
	(30 days-10 years):	0.20-0.80 mg/dL
	(10-13 years):	0.50-1.10 mg/dL
	(>13 years):	0.60-1.00 mg/dL
	Male (0-30 days):	0.70-1.20 mg/dL
	(30 days-10 years):	0.20-0.80 mg/dL
	(10-13 years):	0.50-1.10 mg/dL
	(>13 years):	0.80-1.30 mg/dL
	GLU:	
	Female (0-30 days):	55-90 mg/dL
	(30 days-16 years):	60-115 mg/dL
	(>16 years):	60-100 mg/dL

REFERENCE INTERVAL:

GLU:

Male	(0-30 days):	0.70-1.2 mg/dL
	(30 days-10 years):	55-90 mg/dL
	(10-16 years):	60-115 mg/dL
	(>16 years):	60-100 mg/dL

K:

Female	(0-7 days):	3.2-5.7 mmol/L
	(7-30 days):	3.4-6.5 mmol/L
	(30 days-3 months):	3.5-5.8 mmol/L
	(3 months-1 years):	3.5-5.8 mmol/L
	(1-19 years):	3.6-5.0 mmol/L
	(>19 years):	3.5-5.1 mmol/L
Male	(0-7 days):	3.2-5.7 mmol/L
	(7-30 days):	3.4-6.5 mmol/L
	(30 days-3 months):	3.5-5.8 mmol/L
	(3 months-1 years):	3.5-5.8 mmol/L
	(1-19 years):	3.6-5.0 mmol/L
	(>19 years):	3.5-5.1 mmol/L

NA:

Female	(0-19 years):	131-142 mmol/L
	(>19 years):	134-144 mmol/L
Male	(0-19 years):	131-142 mmol/L
	(>19 years):	134-144 mmol/L

PO4:

Female	(0-2 years):	2.8-6.9 mg/dL
	(2-19 years):	2.6-6.3 mg/dL
	(>19 years):	2.3-5.6 mg/dL
Male	(0-2 years):	2.8-6.9 mg/dL
	(2-19 years):	2.6-6.3 mg/dL
	(>19 years):	2.3-5.6 mg/dL