

## Guidelines for Specimen Collection and Labeling

**Instrument: Alpha Wassermann ACE Alera**

**TEST (TEST CODE):**

**Basic Metabolic Panel (BMP)  
(BUN, Ca, Cl, CO<sub>2</sub>, CREAT, GLU, K, Na)**

**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:	<b>Temperature</b>	<b>Stability</b>
	Ambient	1 day(s)
	Refrigerated	3 day(s)
	Frozen	4 day(s)

SHIPPING INSTRUCTIONS: Refrigerate specimen during transportation.

REFERENCE INTERVAL:	<b>BUN:</b>	
	Female:	7 – 31 mg/dL
	Male:	7 – 31 mg/dL
	<b>CA:</b>	
	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
	<b>CL:</b>	
	Female:	98-111 mmol/L
	Male:	98-111 mmol/L
	<b>CO<sub>2</sub>:</b>	
	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
	<b>CREAT:</b>	
	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	
<b>GLU:</b>		
Female (0-30 days):	55-90 mg/dL	
(30 days-16 years):	60-115 mg/dL	
(>16 years):	60-100 mg/dL	
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	

**REFERENCE INTERVAL:**

**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