

## Guidelines for Specimen Collection and Labeling

**Instrument: Alpha Wassermann ACE Alera**

**TEST (TEST CODE):**

**Hepatic Functional Panel (HFP)  
(ALB, ALT, ALP, AST, DBILI, IBILI TBILI, TP)**

**COLLECTION INSTRUCTIONS:**

Protect sample from light.

**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: 2.0 mL  
Minimum: 1.0 mL

**REJECTION CRITERIA:**

EDTA, citrate, fluoride/oxalate plasma, hemolyzed  
and frozen specimens are unacceptable.

**COLLECTION TIMING:**

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

**PROCESSING SPECIMENS:**

**Serum/Plasma**

**PROCESSED AMOUNTS:**

Preferred: 1.0 mL  
Minimum: 0.5 mL

**PROCESSING INSTRUCTIONS:**

Allow specimen to clot for 20-30 minutes.  
Centrifuge specimen and immediately separate 1.0  
ml (min 0.5 ml) serum into transport tube. Protect  
from direct light.

**SPECIMEN STORAGE/STABILITY:**

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

**ALP:**

Female (0 - 30 days):	76-452 U/L
(30 days-1 years):	75-467 U/L
(1 years-4 years):	40-356 U/L
(4 years-7 years):	74-359 U/L
(7 years-10 years):	94-410 U/L
(10 years-12 years):	76-449 U/L
(12 years- 14 years):	61-353 U/L
(14 years-16 years):	53-198 U/L
(16 years-20 years):	40-137 U/L
(>20 years):	38-150 U/L
Male (0 - 30 days):	76-452 U/L
(30 days-1 years):	75-467 U/L
(1 years-4 years):	40-356 U/L
(4 years-7 years):	74-359 U/L
(7 years-10 years):	94-410 U/L
(10 years-12 years):	68-436 U/L
(12 years- 14 years):	98-448 U/L
(14 years-16 years):	69-391 U/L
(16 years-20 years):	50-203 U/L
(>20 years):	38-150 U/L

**ALT:**

Female (0 - 1 years):	15-59 U/L
(1 years – 4 years):	14-69 U/L
(4 years - 12 years):	12-61 U/L
(12 years-20 years):	12-49 U/L
(>20 years):	14-67 U/L
Male (0 - 1 years):	16-71 U/L
(1 years – 4 years):	14-69 U/L
(4 years - 12 years):	12-61 U/L
(12 years-20 years):	13-63 U/L
(>20 years):	14-67 U/L

**REFERENCE INTERVAL:**

**AST:**

Female (0 - 1 years):	13-72 U/L
(1 years – 5 years):	16-60 U/L
(5 years - 20 years):	6-38 U/L
(>20 years):	6-58 U/L
Male (0 - 1 years):	13-72 U/L
(1 years – 5 years):	16-60 U/L
(5 years - 20 years):	6-38 U/L
(>20 years):	6-58 U/L

**DBILI:**

Female (0 - 30 days):	0.0-0.4 mg/dL
(>30 days):	0.1-0.4 mg/dL
Male (0 - 30 days):	0.0-0.4 mg/dL
(>30 days):	0.1-0.4 mg/dL

**IBIL:**

Female	0.2-1.0 mg/dL
Male	0.2-1.0 mg/dL

**TBILI:**

Female (0 - 1 day):	0.0-5.1 mg/dL
(1 day-3 days):	0.0-7.2 mg/dL
(3 days-30 days):	0.0-10.3 mg/dL
(>30 days):	0.3-1.2 mg/dL
Male (0 - 1 day):	0.0-5.1 mg/dL
(1 day-3 days):	0.0-7.2 mg/dL
(3 days-30 days):	0.0-10.3 mg/dL
(>30 days):	0.3-1.2 mg/dL

**TP:**

Female (0 – 1 years):	4.6-7.7 gm/dL
(1 years – 10 years):	5.4-8.3 gm/dL
(>10 years):	6.1-8.2 gm/dL
Male (0 – 1 years):	4.6-7.7 gm/dL
(1 years – 10 years):	5.4-8.3 gm/dL
(>10 years):	6.1-8.2 gm/dL