

Coagulation Screen		
Test		Reference Interval
PT	seconds	Reference Interval: 8.5-11.0 seconds (Change effective 12/20/2004)
APTT	seconds	Reference Interval: 25-38 seconds (Change effective 2/27/2007)*
Fibrinogen	mg/dl	Reference Interval: 180-450 mg/dl (Change effective 2/27/2007)*
PT 1:1 Mix	seconds	Reference Interval: 8.5-11.0 seconds
APTT 1:1 Mix	seconds	Reference Interval: 25-38 seconds (Change effective 2/27/2007)*
Activated Protein C Resistance (APCR)		Reference Interval: ≥ 2.0

*The *new* therapeutic range for heparin is 70 - 110 seconds, which corresponds to heparin levels of 0.3-0.7 IU/mL in blood. Further information can be obtained from Ann R. Tidwell, MT(ASCP)SH in the Hemostasis Laboratory at (804) 628-5735. (Change effective 2/27/2007)

Factor Assays		
Factor II	% Activity	Reference Interval: 93 - 141% Activity
Factor V	% Activity	Reference Interval: 67 - 169% Activity
Factor VII	% Activity	Reference Interval: 67 - 169% Activity
Factor VIII	% Activity	Reference Interval: 62 - 169% Activity
Factor IX	% Activity	Reference Interval: 67 - 136% Activity
Factor X	% Activity	Reference Interval: 83 - 163% Activity
Factor XI	% Activity	Reference Interval: 60 - 138% Activity
Factor XII	% Activity	Reference Interval: 60 - 169% Activity
Factor XIII		Reference Interval: Clot stable at 72 hrs.

Special Studies		
Antithrombin III	% Activity	Reference Interval: 80-120% Activity
Circulating Anticoagulant		Reference Interval: None Detected
D-Dimer	µg/mL	Reference Interval: < 0.5 µg/mL. (Change effective 9/14/2007) Threshold for exclusion of VTE: <0.5 µg/mL FEU
Fibrin Split Product	µg/mL	Reference Interval: < 5 µg/mL
Heparin Induced Platelet Antibody		Reference Interval: Negative
Inhibitor Screen		Reference Interval: None Detected
VIII Inhibitor Titre	Bethesda Units	Reference Interval: 0
IX Inhibitor Titre	Bethesda Units	Reference Interval: 0
Lupus Anticoagulant		Reference Interval: None Detected
Plasminogen	% Activity	Reference Interval: 80-120% Activity
Platelet Aggregation	% Activity	Reference Interval: 60 - 100% aggregation for the following agonists: Arachadonic Acid (500 µg/mL) ADP (2 x 10 ⁻⁵) Collagen (0.19 mg/mL)

Special Studies		
		Epinephrine (1 x 10 ⁻⁴ M) Ristocetin (1.2 mg/mL) The reference range for the agonist Ristocetin (0.6 mg/mL) is 0 - 20 % aggregation.
Platelet Function Assay	seconds	Col/Epi 75-183 Closure Time (sec); Col/ADP 58-122 Closure Time (sec)
Protein C Activity	% Activity	Reference Interval: 70-130% Activity
Protein S Activity	% Activity	Reference Interval: 65-140% Activity
Protein C Antigen	%	Reference Interval: 70-140% Activity
Protein S Antigen (Total)	%	Reference Interval: 70-140% Activity
Protein S Antigen (Free)	%	Reference Interval: 70-130% Activity
Reptilase Time	seconds	Control: seconds
Thrombin Time	seconds	Reference Interval: 10-20 Seconds
Von Willebrand Factor Assay (Ristocetin Cofactor)	% Activity	Reference Interval: 44-113% Activity
Von Willebrand Factor Antigen	%	Reference Interval: 50-160%
Unfractionated Heparin Assay (Anti-Xa)	IU/mL	Recommended therapeutic range: 0.3-0.7 IU/mL
Low Molecular Weight Heparin Assay: (Anti-Xa)	IU/mL	Therapeutic Range <i>Adults:</i> Prophylaxes for moderate risk 0.10-0.25 IU/mL Prophylaxes for high risk 0.20-0.50 IU/mL Thrombosis therapy 0.50-1.20 IU/mL <i>Children:</i> Prophylaxes 0.10-0.30 IU/mL Thrombosis Therapy 0.50-1.00 IU/mL