LAB325 Partial Thromboplastin Time (PTT)

BMC, CRH, LFH, OCH, FTT, FOX

Specimen Type
Platelet Poor Plasma

Preferred Container
Plastic blue top tube (3.2% sodium citrate)

Volume Required
2.7 mL

Storage Requirements and Transportation Needs
If transportation to the laboratory is to be delayed for more than 1 hour:
Prepare Platelet Poor Plasma:
Centrifuge tube at 1500 g for 10 minutes.
Use a plastic transfer pipette to remove plasma (staying away from the buffy coat layer) and transfer top 2/3 of plasma to a plastic aliquot tube.
Centrifuge this aliquot tube at 1500 g for 10 minutes.
Transfer top 3/4 of plasma (do not disturb button at bottom of tube) into another plastic aliquot tube.
Label this tube with patient information and a PLASMA sticker.
Freeze plasma immediately in a -15° to -25°C freezer until ready to transport.
Plasma must be transported to Laboratory frozen.

Causes for Rejection
Clotted specimens
Mislabeled or unlabeled specimens
Collection in any tube other than 3.2% plastic sodium citrate blue top tube
Less than 90% filled
Received greater than 4 hours old unless separated from cells and frozen at -15° to -25°C
Hemolysis > 500 mg/dL (>4+)
Whole blood or Plasma samples received refrigerated (2-8° C) or on ice

Reference Values

Population	Units	Reference Range	High Critical Value	Result Comment
Adult populations without heparin therapy	Seconds	27.1 – 39.1	≥ 69.2	Warfarin and Direct oral anticoagulants may elevate aPTT.
Suggested range for heparin therapy (0.3 – 0.7 U/mL)	Seconds	59.6 – 82.3	> 93.7	

It should be noted that children run 2-3 seconds above the adult PTT reference range without demonstrable coagulation disorder.

Available STAT
Yes

Methodology
Turbidimetric

CPT Code
85730