Lab Dept:	Chemistry
Test Name:	CRYOGLOBULIN, PLASMA AND SERUM
General Information	
Lab Order Codes:	CRGL
Synonyms:	Cryofibrinogen; Cryoprecipitates; Cryoprotein
CPT Codes:	82595 – Cryoglobulin, qualitative or semi quantitative 82585 – Cryofibrinogen 86334 - Immunofixation (if appropriate)
Test Includes:	Quantitation and qualitative typing, precipitation at 1 degree centigrade. Includes cryofibrinogen. If cryoglobulin has a result other than negative, Immunofixation will be performed at an additional charge. Positive cryoglobulins of ≥ 0.1 mL of precipitate will be typed once.
Logistics	
Test Indications:	Useful for evaluating patients with vasculitis, glomerulonephritis, lymphoproliferative disease. Cases of macroglobulinemia or myeloma in whom symptoms occur with cold exposure.

Referred to: Mayo Medical Laboratories (MML Test:CRGSP)

Chemistry - Sendouts

 Phone Numbers:
 MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability:Daily, 24 hours

Turnaround Time:2 – 10 days, test set-up Monday – Friday.

Special Instructions: See <u>Container</u> and <u>Collection</u>. Requires both EDTA plasma and serum.

Specimen

Lab Testing Sections:

Specimen Type:	Blood
Container:	Red top (no gel) tube and Lavender top (EDTA, no gel) tubes
	Note: Both tubes are required. Serum is used for cryoglobulin and plasma is used for cryofibrinogen.

Draw Volume:	Red top: 15 mL (Minimum: 9 mL) blood
	Lavender top: 3 mL (Minimum: 1.5) blood
Processed Volume:	Serum: 5 mL (Minimum: 3 mL)
	Plasma: 1 mL (Minimum: 0.5 mL)
Collection:	Routine venipuncture. Keep both specimens warm (37°C Water Bath or Heel Warmer) and deliver to laboratory immediately. Mix lavender top tube by gentle inversion. The serum tube must clot at 37°C for 30 to 60 minutes before processing.
Special Processing:	Lab Staff:
	Red top NO GEL - Maintain the specimen at 37°C in a water bath until clotted. Allow specimen to clot for 30 to 60 minutes. If the specimen has not been maintained at 37°C from the time of collection, allow the specimen to clot in 37°C water bath for 3 hours. Centrifuge at 37°C. Remove serum and aliquot into a plastic tube and store in refrigerator. Label specimen as serum sample. Ship at refrigerated temperatures.
	refrigerated temperatures.
Patient Preparation:	None
Sample Rejection:	Not maintained at 37°C prior to processing or gross hemolysis; mislabeled or unlabeled specimens; specimens collected in gel tubes; gross hemolysis; gross lipemia; grossly icteric; less than the amount of serum/plasma specified above
Interpretive	
Reference Range:	Cryoglobulin: Negative
	Note: Positives will be reported as a percent. If positive after 1 or 7 days, immunotyping of the cryoprecipitate is performed at an additional charge.
	Cyrofibrinogen: Negative
	Note: Reported as positive or negative. Quantitation and immunotyping will not be performed on positive cryofibrinogen.
	An interpretive report will be provided.
Critical Values:	None

Limitations:	Failure to follow specimen handling instructions may cause false- negative results. Not useful for general screening of a population without a clinical suspicion of cryoglobulinemia.
Methodology:	Quantitation and Qualitative Typing, Precipitation at 1 degree C. When indicated may include Immunofixation,
References:	Mayo Medical Laboratory December 2017
Updates:	3/4/2004:Test moved from Fairview Diagnostic Laboratory to MML. Test now includes both cryofibrinogen and cryoglobulin. 1/31/2007: MML has split out Immunofixation from this test and will only perform and charge for it with a positive cryoglobulin. Order code previously listed as 9052. 8/29/2007: Positive cryoglobulins of ≥0.1 mL of precipitate will be typed once every 6 months. 9/27/2010: Specimen volume updates. 12/20/17: Updated specimen volumes.