Lab Dept:	Chemistry	
Test Name:	IgM (IMMUNOGLOBULIN M)	
General Information		
Lab Order Codes:	IGM	
Synonyms:	Immunoglobulin M	
CPT Codes:	82784 – Gammaglobulin; IgM, each	
Test Includes:	IgM concentration reported in mg/dL.	
Logistics		
Test Indications:	Immunoglobulins, also known as humoral antibodies, recognize antigens and initiate mechanisms that destroy antigens. IgM is the most primitive, least specialized immunoglobulin, and the only immunoglobulin that a neonate normally synthesizes. IgM is synthesized against antigens confined to the blood, such as erythrocyte surface antigens and tropical parasites.	
Lab Testing Sections:	Chemistry	
Phone Numbers:	MIN Lab: 612-813-6280	
	STP Lab: 651-220-6550	
Test Availability:	Daily, 24 hours	
Turnaround Time:	1 day	
Special Instructions:	N/A	
Specimen		
Specimen Type:	Blood	
Container:	Green top (Li Heparin) tube, preferred, Alternate: Red, marble or gold top tube	
Draw Volume:	0.6 mL blood	
Processed Volume:	0.2 mL serum/plasma	
Collection:	Routine venipuncture	

Special Processing:	Lab Staff: Centrifuge specimen, remove aliquot into a plastic sample cup. Centrifuge turbid or particulate samples prior to analysis. Store at refrigerated temperatures for up to 7 days.	
Patient Preparation:	None	
Sample Rejection:	Mislabeled or unlabeled specimens	
Interpretive		
Reference Range:	0 – <15 days:	5 – 35 mg/dL
	15 days - <13 weeks:	12 – 71 mg/dL
	13 weeks - <1 year:	16 – 86 mg/dL
	1 - <19 years:	48 – 186 mg/dL
	Adult Male:	22 - 240 mg/dL
	Adult Female:	33 – 293 mg/dL
Critical Values:	N/A	
Limitations:	Results from samples containing paraproteins (abnormal monoclonal antibodies) may incorrectly fall within the reference range. Samples with elevated total protein concentrations or samples from patients with suspected paraproteinemia can be screened using other laboratory methods such as protein electrophoresis. In addition, analysis of one or more diluted samples should be performed to ensure that consistent results are obtained. Specimens collected in EDTA collection tubes are not acceptable for use. Results should be evaluated by comparing to other clinically relevant information.	
	Turbidity and particles in samples can interfere with the assay. Therefore, particulate matter should be removed by centrifugation p to running the assay.	
Methodology:	Immunoturbidimetric	
References:	Tietz (1999) Textbook of Clinical Chemistry, 3 <sup>rd</sup> edition, Philadelphia, WB Saunders Company, pp 507-509	
	Bio-Rad Liquichek Immunology Control Package Insert, Bio-Rad Laboratories, Irvine, CA, USA	
	CALIPER Reference Range Studies. Accessed October 27, 2020	

Abbott Alinity c Specific Protein Calibrator Package Insert, Abbott Diagnostics Division, Abbott Park, IL, 60064, USA, February 2018

Abbott Alinity c IgM Reagent Kit Instructios for Use, Abbott Diagnostics Division, Abbott Park, IL, 60064, USA. Revised June 2019

 Updates:
 2/8/2016: Update alt tube types

 11/23/2020: Update for new method Alinity, method Siemens Vista removed.