Lab Dept: Chemistry

Test Name: CREATINE KINASE ISOENZYMES

General Information

Lab Order Codes:	CKISO			
Synonyms:	CK fractionation; CK isoenzymes; CKBB CKMB CKMM; CPK Isoenzymes; CK macro			
CPT Codes:	82552 - CK isoenzymes 82550 - CK, total			
Test Includes:	CK-MM, CK-MB, CK-BB, CK Macro Type I, CK Macro Type II and CK total values in U/L.			
Logistics				
Test indications:	Aid in determining the etiology of elevated total creatine kinase. Troponin I or Troponin T 5th Generation are the recommended tests for diagnosis and management of acute coronary syndrome. May aid in identifying the presence of macro creatine kinase.			
Lab Testing Sections:	Chemistry - Sendouts			
Referred to:	ARUP (Test code: 0020414)			
Phone Numbers:	MIN Lab: 612-813-6280			
	STP Lab: 651-220-6550			
Test Availability:	Daily, 24 hours			
Turnaround Time:	2-3 days			
Special Instructions:	N/A			
Specimen				
Specimen Type:	Blood			
Container:	SST (Gold, marble or red) or plain red tube			
Draw Volume:	3 mL (Minimum: 1.5 mL) blood			

Processed Volume:	1 mL (Minimum: 0.5 mL) serum			
Collection:	Routine venipuncture			
Special Processing:	Lab Staff: Centrifuge specimen, remove serum aliquot immediately into a plastic screw-capped ARUP transport vial. Store and ship at frozen temperatures. Forward promptly.			
	Specimen stable frozen (preferred) for 1 month (avoid freeze/thaw cycles) or refrigerated for 1 week.			
Patient Preparation:	None			
Sample Rejection:	Mislabeled or unlabeled specimens; gross hemolysis; incorrect anticoagulant			

Interpretive

Reference Range:	01/10/				
Kererence Kunge.	CK-MM	96-100%			
	CK-MB	0-4%			
	CK-BB	0%			
	CK-Macro Type I	0%			
	CK-Macro Type II	0%			
		Age	Male (U/L)	Female (U/L)	
		0-30 days	108-564	108-564	
		31 days-5 months	72-367	72-367	
	CK Total	6-35 months	50-272	38-261	
		3-6 years	56-281	40-222	
		7-17 years	60-393	46-250	
		18 years and older	39-308	26-192	
Critical Values:	N/A				
Limitations:	N/A				
Methodology:	Quantitative Enzymatic Assay/Electrophoresis				
References:	ARUP Laboratories (January 2024)				
Updates:	1/24/2024: Initial entry. Replaced obsolete CKRE and CKI				