

MARCH 2022

Update Notes

Update Summary		
Announcement	2/22/2022	Announcement
Update Existing Test	2/22/2022	ALDR - "Aldosterone/Direct Renin Ratio"
Update Existing Test	3/21/2022	BORDN - "Borrelia species DNA PCR -Tick"
Update Existing Test	2/22/2022	CBGLB - "Corticosteroid Binding Glob"
Update Existing Test	2/22/2022	CELIA - "Celiac Disease Panel with TTG and DGP"
Update Existing Test	2/22/2022	CELPS - "Celiac Screen without DGP"
Update Existing Test	3/21/2022	EPBAV - "Epstein-Barr Virus DNA, Quant Real-Time PCR, CSF"
Update Existing Test	2/22/2022	GIDP - "GI Distress Panel"
Update Existing Test	3/21/2022	HIVRG - "HIV-1 RNA, Quantitative, PCR with Reflex to Genotype"
Inactivate Test With Replacement	3/29/2022	FVLMA - "Factor V Leiden Mutation Analysis" replaced by F5LM - "Factor V Leiden Mutation Analysis"
Inactivate Test With Replacement	3/30/2022	FXDNA - "Fragile X (FMR1) with Reflex to Methylation Analysis" replaced by FXRM1 - "Fragile X (FMR1) with Reflex to Methylation Analysis"
Inactivate Test With Replacement	3/29/2022	JCVQT - "JC Polyoma Virus DNA, Quant" replaced by JCVQN - "JC Polyoma Virus DNA Quant RT PCR S/P"
Inactivate Test With Replacement	3/1/2022	LTE4 - "Leukotriene E4, Urine" replaced by RLTE4 - "Leukotriene E4, Random, Urine"
Inactivate Test With Replacement	3/29/2022	LTE4 - "Leukotriene E4, Urine" replaced by TLTE4 - "Leukotriene E4, 24 Hour, Urine"
Inactivate Test With Replacement	3/29/2022	P202A - "Prothrombin 20210A Mutation Analysis" replaced by F2PM - "Prothrombin 20210A Mutation Analysis"
Inactivate Test Without Replacement	3/21/2022	TXGOQ - "Toxoplasma gondii DNA Quant"

Announcement

Due to nationwide reagent shortage, FRDIG - Digoxin, Free, Serum, will be temporarily non-orderable effective immediately.



Update Existing Test						
Effective Date	2/22/2022					
Name	Aldosterone/Direct Renin Ratio					
Code	ALDR					
Interface Order Code	1003990					
Legacy Code	ALDR					
Notes	Updates to rejection criteria.					
Required Testing Changes						
Rejection Criteria	Aldosterone: Plasma: gross hemolysis, gross lipemia Renin: Hemolysis, grossly lipemic or icteric specimens, non-frozen samples, serum, dark blue trace element EDTA					

Update Existing Test					
Effective Date	3/21/2022				
Name	Borrelia species DNA PCR -Tick				
Code	BORDN				
Interface Order Code	3425780				
Legacy Code	BORRSPTQ				
Notes	Updates to transport temperature and stability.				
Required Testing Change	25				
Specimen Required	Specimen Preparation: Send one fresh intact deer tick in 1 - 10 mL 70% ethanol in a sterile screw capped plastic container. Transport Temperature: Refrigerated				
Stability	Room temperature: 72 hours Refrigerated: 7 days Frozen: 30 days				

Update Existing Test				
Effective Date	2/22/2022			
Name	Corticosteroid Binding Glob			
Code	CBGLB			
Interface Order Code	3511985			
Legacy Code	CBGLOB			
Notes	Updates to performing laboratory.			
Required Testing Changes				
Performing Laboratory	LabCorp			



Update Existing Test				
Effective Date	2/22/2022			
Name	Celiac Disease Panel with TTG and DGP			
Code	CELIA			
Interface Order Code	3084760			
Legacy Code	CELIADP			
Notes	Updates to CPT Code(s).			
Required Testing Changes				
CPT Code(s)	86258 x 2, 86364 x 2, 82784			

Update Existing Test					
Effective Date	2/22/2022				
Name	Celiac Screen without DGP				
Code	CELPS				
Interface Order Code	3084780				
Legacy Code	CELPS				
Notes	Update to CPT Code.				
Required Testing Change	Required Testing Changes				
CPT Code(s)	86364 , 82784				

Update Existing Test					
Effective Date	3/21/2022				
Name	Epstein-Barr Virus DNA, Quant Real-Time PCR, CSF				
Code	EPBAV				
Interface Order Code	3400475				
Legacy Code	EPBAV				
Notes	Updates to accepted alternate specimens and reference range.				
Required Testing Change	25				
Alternate Specimen	Fluid: Bronchoalveolar lavage				
Stability	CSF, tissue, fluids Room temperature: 48 hours Refrigerated: 8 days Frozen: 30 days				
Reference Range	Result NameReference RangeUnit of MeasureEBV DNA, QN PCRNot detectedcopies/mLEBV DNA, QN PCRNot detectedLog copies/mL				



Update Existing Test					
Effective Date	2/22/2022				
Name	GI Distress Panel				
Code	GIDP				
Interface Order Code	3070300				
Legacy Code	GIDP				
Notes	Updates to CPT Code(s).				
Required Testing Changes					
CPT Code(s)	86258 x 2, 86364 x 2 , 86003 x 12				

Update Existing Test			
Effective Date	3/21/2022		
Name	HIV-1 RNA, Quantitative, PCR with Reflex to Genotype		
Code	HIVRG		
Interface Order Code	3515950		
Legacy Code	HIVRG		
Notes	Updates to specimen requirements, rejection criteria, performed days and reflexed TAT.		
Required Testing Change	25		
Specimen Required	Collect: Two Lavender EDTA Specimen Preparation: Send 2.0 mL plasma collected in each of the two lavender EDTA tubes . Minimum Volume: 1.0 mL Transport Temperature: Frozen		
Rejection Criteria	Serum; whole blood greater than 24 hours old; frozen whole blood; samples collected in lithium or sodium heparin.		
Performed Days	Monday - Saturday		
Turnaround Time	4 - 6 days; if reflexed additional 4 - 11 days		



Inactivate Test With Replacement					
Effective Date	3/29/2022				
	Inactivated Test				
Name	Factor V Leiden Mutation Analysis				
Code	FVLMA				
Legacy Code ¹	FVLMA				
Interface Order Code	3400370				
Notes					
	Replacement Test				
Name	Factor V Leiden Mutation Analysis				
Code	F5LM				
	81241				
CPT Code(s)	ZB770				
Notes					
Specimen Requirements					
Specimen Required Alternate Specimen Rejection Criteria	Lovender EDTA Specimen Preparation: Send 5.0 mL whole blood. Minimum Volume: 3.0 mL Transport Temperature: Room temperature None Serum, plasma, heparinized whole blood, tissue, specimen previously tested Room temperature: 8 days Refrigerated: 8 days				
Stability	Frozen: 30 days				
Methodology	Polymersse Chain Reaction (DCD)				
Reference Range	Wild Type E5				
Reference hange	Tuesday Friday				
Performed Days					
Turnaround Time	1 - 5 days				
Performing Laboratory	Warde Medical Laboratory				
Interface Information					



Legacy Code ¹	F5LM			
Interface Order Code	3000306			
Result Code	ame LOINC Code AOE/Prompt ²			
3000307	Factor V Leiden Mutation	21668-9	No	



EXAMPLE, REPORT

WX000003039 M 12/05/1988 33 Y

		Molecular					
		Collected: 02	2/19/2022	2 06:04	Received	02/19/2022	06:04
Test Name		Result	Flag	Ref-Ranges	<u>8</u>	<u>Units</u>	<u>Site</u>
Factor V	Leiden Mutation	Analysis					
Factor V Leio	den Mutation	Negative					WMRL
	The pathogenic F5 I DETECTED. The speci for the wild type (but other mutations thrombosis. This test was perfo (Roche) - an in vit real-time quantitat for the detection a (F5) gene. The test (WT) F5 gene and th known as the F5 Lei from whole blood sp with suspected thro the cobas z 480 and amplification and the	Leiden variant (c.1691G>A) was men was determined to be homo (WT) F5 gene. This test does n is that may contribute to venou prmed using the cobas® Factor tro diagnostic device that use tive Polymerase Chain Reaction and genotyping of the human fact detects the presence of the he pathogenic c.1691G>A varian den variant) in genomic DNA i becimens as an aid in diagnosi ombophilia. The cobas® Factor alyzer are used together for a detection. The limit of detect	NOT zygous ot rul s V Test s (qPCR ctor V wild t t (als solate ng pat V Test utomat ion fo	e ype o d ients and ed r			
1	reaction).					Perfor	ming Site:

WMRL: WARDE MEDICAL LABORATORY 300 West Textile Road Ann Arbor MI 48108



EXAMPLE, REPORT WX000003039 M 12/05/1988 33 Y

		Molecul	ar				
		Collected	d: 02/19/2022	06:06	Received:	02/19/2022	06:06
Test Name		Result	<u>Flag</u>	Ref-Ranges	<u>s</u>	<u>Jnits</u>	<u>Site</u>
Factor \	/ Leiden Mutation A	nalysis					
Factor V Le	eiden Mutation	Heterozygous	AB				WMRL
	Both the wild type Leiden variant (c.10 heterozygous c.16910 Heterozygosity for activated protein C venous thromboembol:	(WT) F5 gene and the patho 691G>A) were detected indi G>A genotype for this spec the c.1691G>A variant is a resistance and an increas ism (VTE).	ogenic F5 cating a cimen. Associated sed risk fo	with Dr			
	Factor V Leiden thre dominant manner and variant have a 3 to prevalence of c.169 individuals of Europ less common in Ameri (1.2%), Asian (<0.53 ancestry. The overal individuals is appro- for both F5 Leiden a variant may experient tends to be more set counseling is recomm testing asymptomatic	personal and the second	n an autoso the F5 Leic VTE. The ghest in variant is , African 25%) heterozygo peterozygo prothromk abosis that es. Geneti the benefit	omal den s bus us bin c c c c c of			
	This test was perform (Roche) - an in vita real-time quantitata for the detection and (F5) gene. The test (WT) F5 gene and the known as the F5 Leid from whole blood spe- with suspected throw the cobas z 480 and amplification and de this test is 0.1 ng, reaction).	rmed using the cobas® Fact ro diagnostic device that ive Polymerase Chain React ad genotyping of the human detects the presence of t e pathogenic c.1691G>A var den variant) in genomic DN ecimens as an aid in diagn mbophilia. The cobas® Fact lyzer are used together for etection. The limit of det /uL of genomic DNA (2.5 ng	cor V Test uses ion (qPCR) factor V the wild ty ciant (also NA isolated hosing pati for V Test or automated tection for g/PCR	ype d Lents and ed			
	, •					Perform	ning Site:

Ordered By: CLIENT CLIENT WX0000000001595



Inactivate Test With Rep	Inactivate Test With Replacement			
Effective Date	3/30/2022			
	Inactivated Test			
Name	Fragile X (FMR1) with Reflex to Methylation Analysis			
Code	FXDNA			
Legacy Code ¹	FXDNAARP			
Interface Order Code	3671860			
Notes				
	Replacement Test			
Name	Fragile X (FMR1) with Reflex to Methylation Analysis			
Code	FXRM1			
	81243, plus 81244 if reflexed at additional cost			
CPT Code(s)	ZB2O1, plus ZB6K3 if reflexed			
Notes				
Specimen Requirements				
	<i>Collect:</i> Lavender EDTA			
	Specimen Preparation:			
	Send 5.0 mL whole blood.			
Specimen Required				
	Minimum Volume:			
	1.5 mL			
	Transport Tomporaturo:			
	Pefrigerated			
	ingerated			
	Whole blood: Yellow ACD A			
Alternate Specimen				
	Room temperature: 7 days			
Ctobility	Refrigerated: 30 days			
Stability	Frozen: 6 months			
Performing Information				
Methodology	Polymerase Chain Reaction/Capillary Electrophoresis			
	Construct			
Reference Range	See report			
Performed Days	Sunday - Saturday			
Turnaround Time	6 - 16 days			
	ARLIP Reference Laboratory			
Performing Laboratory	AROP Reference Laboratory			



Interface Information				
Legacy Code ¹	F	XRM1		
Interface Order Code	de 3600211			
Result Code	Name	LOINC Code	AOE/Prompt ²	
3600212	Frag X Specimen	66746-9	No	
3600213	Fragile X Allele 1	45321-7	No	
3600214	Fragile X Allele 2	45322-5	No	
3600215	Fragile X Methylation Pattern	41107-4	No	
3600216	Fragile X Interpretation	36913-2	No	



EXAMPLE, REPORT WX0000003039 M 12/05/1988 33 Y

		Referral Test	ing				
		Collected: 0)2/19/2022	06:07	Received:	02/19/2022	06:07
Test Name	2	Result	<u>Flag</u>	Ref-Ranges	<u>Ui</u>	<u>nits</u>	<u>Site</u>
Fragile X (FMR1) with Reflex to M		x to Methylation Analysis					
Frag X Sp	ecimen	Whole Blood					ARRL
Fragile X A	Allele 1	15			C	GG repeats	ARRL
Fragile X A	Allele 2	16			C	GG repeats	ARRL
Fragile X I	Methylation Pattern	Normal					ARRL
Fragile X I	nterpretation	See Note					ARRL
	This individual has the normal range; th affected with, nor a This test does not d than 1% of FXS.	a FMR1 allele with a CGG re erefore, he is predicted to carrier of, fragile X synd etect rare FMR1 variants ca	peat size be neith rome (FXS using les	e in her S). Ss			
	Methylation pattern	is normal for gender.					
	This fesult has been BACKGROUND INFORMATI CHARACTERISTICS OF F have moderate intell perseverative speech hand flapping or bit connective tissue an less severely affect full mutations. CHARACTERISTICS OF F (FXTAS): Onset of pr typically after the have a 21 percent ri FXTAS is caused by F Incidence of FXS: 1 Caucasian females. INHERITANCE: X-linke PENETRANCE OF FXS: C PENETRANCE OF FXS: C PENETRANCE OF FXS: females >50 years of CAUSE: Expansion of Full mutation: typ Premutation: 55 to Intermediate: 45-5 Normal: 5-44 CGG r CLINICAL SENSITIVITY METHODOLOGY: Triplet reaction (PCR) follo	<pre>Nevlewed and approved by R ON: Fragile X (FMR1) with R Methylation Analysis RAGILE X SYNDROME (FXS): Af ectual disability, hyperact , social anxiety, poor eye ing, autism spectrum disord omalies in males. Females a ed than males. FEMALES a ed than males. FXS is cause RAGILE X TREMOR ATAXIA SYND ogressive ataxia and intent fourth decade of life. Fema sk for primary ovarian insu MR1 premutations. in 4,000 Caucasian males an d. omplete in males; 50 percen 47 percent in males and 17 age. the FMR1 gene CGG triplet r ically >200 CGG repeats (me approx 200 CGG repeats (un 4 CGG repeats (unmethylated). : 99 percent. repeat-primed polymerase c wed by size analysis using</pre>	<pre>ong MaO, eflex to fected ma ivity, contact, ers and re usuall d by FMR1 ROME ion tremc les also fficiency d 1 in 8, t in fema percent epeat. thylated) methylate). hain capillary</pre>	M.D. Ales Ly cor (. 0000 Ales. in ed).			

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED



EXAMPLE, REPORT WX0000003039 M 12/05/1988 33 Y

		Ref	erral Testing				
			Collected: 02/19/2022	06:07	Received:	02/19/2022	06:07
<u>Test Name</u>	electrophoresis. M performed for CGG between premutatio ANALYTICAL SENSITT estimated precisio premutation allele LIMITATIONS: Diagn sequence variation trinucleotide expa CGG repeat size es alleles. AGG trinu CGG repeat tract a PHENOTYPE NUM Unaffected Intermediate Premutation Affected	Result ethylation-specifi repeat lengths of a and full mutatio VITY AND SPECIFICI a of sizing for in s is within 2-3 CG ostic errors can o s. Rare FMR1 varia hsion will not be timate is not prov cleotide interrupt re not assessed. BER OF CGG REPEATS <45 45-54 55-200 >200	Flag c PCR analysis is >100 to distinguish n alleles. TY: 99 percent; termediate and G repeats. ccur due to rare nts unrelated to detected. A specifi ided for full mutat ions within the FMF	Ref-Ranges	<u>i</u> <u>l</u>	<u>Jnits</u>	Site
	This test was deve determined by ARUP approved by the US was performed in a intended for clini Counseling and inf testing. Consent f Performed by ARUP 500 Chipeta Way, S www.aruplab.com, T	loped and its perf Laboratories. It Food and Drug Adm CLIA certified la cal purposes. ormed consent are orms are available Laboratories, LC,UT 84108 800-52 racy I. George, MD	ormance characteris has not been cleare inistration. This t boratory and is recommended for ger online. 2-2787 - Lab. Director	stics ed or test netic			
	L ,	- J,				Perform	ning Site:
			ARRL: ARUP	REFERENCE LAB	500 Chipeta Way	/ Salt Lake City UT 84	1081221

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED



Inactivate Test With Rep	Inactivate Test With Replacement				
Effective Date	3/29/2022				
	Inactivated Test				
Name	JC Polyoma Virus DNA, Quant				
Code	JCVQT				
Legacy Code ¹	JCPVQNTQ				
Interface Order Code	3426340				
Notes					
	Replacement Test				
Name	JC Polyoma Virus DNA Quant RT PCR S/P				
Code	JCVQN				
CPT Code(s)	87799				
Notes					
Specimen Requirements					
Specimen Required Alternate Specimen	Collect: Lavender EDTA Specimen Preperation: Send 0.7 mL plasma collected in Lavender EDTA. Minimum Volume: 0.3 mL Transport Temperature: Frozen Plasma: Yellow ACD Serum				
Stability	Room temperature: 48 hours Refrigerated: 7 days Frozen: 30 days				
Performing Information					
Methodology	Real-Time Polymerase Chain Reaction (RT-PCR)				
Reference Range	Not Detected				
Performed Days	Monday - Saturday				
Turnaround Time	2 - 4 days				
Performing Laboratory	Quest SJC				



Interface Information					
Legacy Code ¹	JCVQN				
Interface Order Code	3400637				
Result Code	ame LOINC Code AOE/Prompt ²				
3400638	Source	31208-2	Yes		
3400639	JC Virus DNA, QN PCR	Not available	No		
3400640	JC Virus DNA, QN PCR	Not available	No		



EXAMPLE, REPORT

WX000003039 M 12/05/1988 33 Y

	Referral Test	tina				
	Collected: (9 02/19/2022	2 06:09	Received:	02/19/2022	06:09
Test Name	Result	Flag	Ref-Ranges	<u>.</u>	<u>Units</u>	<u>Site</u>
JC Polyoma Virus DNA Quant RT PC	R S/P					
Source	BLOOD					QCRL
JC Virus DNA, QN PCR	NOT DETECTED				Copies/mL	QCRL
JC Virus DNA, QN PCR	NOT DETECTED				Log cps/mL	QCRL
REFERENCE RANGE: NOT DETECTED This test was developed and it performance characteristics has by Quest Diagnostics. It has r approved by the FDA. This assa pursuant to the CLIA regulatic clinical purposes. Test Performed at: Quest Diagnostics Nichols Inst 33608 Ortega Highway San Juan Capistrano, CA 92675	ts analytical ave been determine not been cleared c ay has been valida ons and is used fo titute 5-2042 I Maram	ed or ted or	PhD			

QCRL: QUEST DIAGNOSTICS REFERENCE LAB CAPISTRANO 33608 Ortega Highway San Juan Capistrano CA 92675

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

Performing Site:



Inactivate Test With Rep	Inactivate Test With Replacement				
Effective Date	3/1/2022				
	Inactivated Test				
Name	Leukotriene E4, Urine				
Code	LTE4				
Legacy Code ¹	LTE4				
Interface Order Code	3807700				
Notes					
	Replacement Test				
Name	Leukotriene E4, Random, Urine				
Code	RLTE4				
CPT Code(s)	82542, 82570				
Notes					
Specimen Requirements					
Specimen Required	Patient Preparation: Patients taking 5-lipoxygenase inhibitor zileuton/Zyflo may have decreased concentrations of leukotriene E4 (LTE4) if dosage has not been discontinued for 48 hours. Collect: Random Urine Specimen Preparation: Send 5.0 mL random urine collection in a screw capped plastic vial. No preservative. Minimum Volume: 2.0 mL Transport Temperature: Refrigerated				
Stability	Room temperature: 24 hours Refrigerated: 7 days Frozen: 30 days				
Performing Information					
Methodology	Liquid Chromatography – Tandem Mass Spectrometry (LC-MS/MS) Enzymatic Colorimetric Assay				
Reference Range	See report				
Performed Days	Tuesday, Friday				
Turnaround Time	4 - 8 days				
Performing Laboratory	Mayo Clinic Laboratories				



Interface Information				
Legacy Code ¹	RLTE4			
Interface Order Code	3800268			
Result Code	Name	LOINC Code	AOE/Prompt ²	
3800269	Leukotriene E4, Random, U	33343-5	No	
3800270	Creatinine, Random, U	2161-8	No	



EXAMPLE, REPORT WX0000003039 M 12/05/1988 33 Y

	Referral Testi	ng			
	Collected: 02	/19/2022	2 06:11 Rece	eived: 02/19/2022	06:11
Test Name	<u>Result</u>	Flag	Ref-Ranges	<u>Units</u>	<u>Site</u>
Leukotriene E4, Random, Urine					
Leukotriene E4, Random, U	100		<=104	pg/mg Cr	MMRL
Cautions: Systemic mast cell disorder; therefore not all pa systemic mastocytosis will exh E(4) (LTE4) concentrations. I collection consider repeating urine collection. LTE4 will be therapeutic 5-lipoxygenase inh	disease is a heter tients with a diag ibit abnormal Leuk if this is a random the analysis on a e decreased in indi ibitors (Zileuton)	ogeneou nosis o otriene urine 24-hou vidual:	is of e r s on		
ADDITIONAL This test was developed and it determined by Mayo Clinic in a requirements. This test has no the U.S. Food and Drug Adminis Creatinine, Random, U	INFORMATION s performance char manner consistent t been cleared or stration. 100	acteris with (approve	stics CLIA ed by 16-326	mg/dL	MMRL
Test Performed by:					

Mayo Clinic Laboratories - Rochester Superior Drive 3050 Superior Drive NW, Rochester, MN 55901 Lab Director: William G. Morice M.D. Ph.D.; CLIA# 24D1040592

> Performing Site: MMRL: MAYO MEDICAL REFERENCE LAB 3050 Superior Drive NW Rochester MN 55901

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED



Inactivate Test With Replacement				
Effective Date	3/29/2022			
	Inactivated Test			
Name	Leukotriene E4, Urine			
Code	LTE4			
Legacy Code ¹	LTE4			
Interface Order Code	3807700			
Notes				
	Replacement Test			
Name	Leukotriene E4, 24 Hour, Urine			
Code	TLTE4			
CPT Code(s)	82542			
Notes				
Specimen Requirements				
Specimen Required	Patient Preparation: Patients taking 5-lipoxygenase inhibitor zileuton/Zyflo may have decreased concentrations of leukotriene E4 (LTE4) if dosage has not been discontinued for 48 hours. Collect: 24 hour Urine Specimen Preparation: Send 5.0 mL 24 hour urine collection in a screw capped plastic vial. No preservative. Minimum Volume: 2.0 mL Transport Temperature: Frozen			
Stability	Room temperature: 24 hours Refrigerated: 7 days Frozen: 30 days			
Performing Information				
Methodology	Liquid Chromatography – Tandem Mass Spectrometry (LC-MS/MS) Enzymatic Colorimetric Assay			
Reference Range	See report			
Performed Days	Tuesday, Friday			
Turnaround Time	4 - 8 days			
Performing Laboratory	Mayo Clinic Laboratories			



Interface Information				
Legacy Code ¹	TLTE4			
Interface Order Code	3800271			
Result Code	Name	LOINC Code	AOE/Prompt ²	
3800272	Collection Duration	13362-9	Yes	
3800273	Urine Volume	3167-4	Yes	
3800274	Leukotriene, E4, U	IN PROCESS	No	
3800275	Creatinine, 24 HR, U	2162-6	No	
3800276	Creatinine Concentration, 24 HR, U	20624-3	No	



EXAMPLE, REPORT

WX000003039 M 12/05/1988 33 Y

	Referral Testi	ng				
	Collected: 02	2/19/2022	2 06:13	Received	: 02/19/2022	06:13
Test Name	Result	Flag	Ref-Ranges		<u>Units</u>	<u>Site</u>
Leukotriene E4, 24 Hour, Urine						
Collection Duration	24				h	MMRL
Urine Volume	1000				mL	MMRL
Leukotriene, E4, U	<20		<=104		pg/mg Cr	MMRL
systemic mastocytosis will exh E(4) (LTE4) concentrations. L individuals on therapeutic 5-1 (Zileuton).	ibit abnormal Leuk TE4 will be decrea ipoxygenase inhibi	otriene sed in tors	e			
This test was developed and it determined by Mayo Clinic in a	s performance char manner consistent	acteri: with (stics CLIA			
requirements. This test has not been cleared or approved by						
the U.S. Food and Drug Adminis	tration.		000 4700		10.4	MMDI
Creatinine, 24 HR, U	1000		603 - 1783		mg/24 n	
Creatinine Concentration, 24 HR, U	100				mg/dL	WINKL
Test Performed by:						

Mayo Clinic Laboratories - Rochester Superior Drive 3050 Superior Drive NW, Rochester, MN 55901 Lab Director: William G. Morice M.D. Ph.D.; CLIA# 24D1040592

> Performing Site: MMRL: MAYO MEDICAL REFERENCE LAB 3050 Superior Drive NW Rochester MN 55901

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED



Inactivate Test With Replacement				
Effective Date	3/29/2022			
	Inactivated Test			
Name	Prothrombin 20210A Mutation Analysis			
Code	P202A			
Legacy Code ¹	P202A			
Interface Order Code	3400504			
Notes				
	Replacement Test			
Name	Prothrombin 20210A Mutation Analysis			
Code	F2PM			
	81240			
CPT Code(s)	ZB766			
Notes				
Specimen Requirements				
	Collect:			
	Lavender EDTA			
	Specimen Preparation:			
	Send 5.0 mL whole blood.			
Specimen Required				
	Minimum Volume:			
	3.0 mL			
	Transport Temperature:			
	Room temperature			
	Sorum, plasma, honarinized whole blood, tissue specimens providusly tested			
Rejection Criteria	Serum, plasma, neparmized whole blobd, tissue specimens previously tested.			
	Room temperature: 8 days			
	Refrigerated: 8 days			
Stability	Frozen: 30 days			
Performing Information				
Mathadala	Polymerase Chain Reaction (PCR)			
iviethodology				
Wild Type F2				
Reference Range	Re the second			
Porformed Dave	Tuesday, Friday			
Turnaround Time	1 - 5 days			
Performing Laboratory	Warde Medical Laboratory			



Interface Information				
Legacy Code ¹	F2PM			
Interface Order Code	3000308			
Result Code	Name	LOINC Code	AOE/Prompt ²	
3000309	Prothrombin 20210A Mutation Analysis	24475-6	No	



EXAMPLE, REPORT WX0000003039 M 12/05/1988 33 Y

	Molecular					
	Collected: 02/	19/2022	06:15	Received	: 02/19/2022	06:15
Test Name	Result	Flag	Ref-Range	<u>s</u>	<u>Units</u>	<u>Site</u>
Prothrombin 20210A Mutation Analys	is					
Prothrombin 20210A Mutation Analysis	Negative					WMRL
The pathogenic c.*97G>A variant The specimen was determined to type (WT) F2 gene. This test do mutations that may contribute t This test was performed using t (Roche) - an in vitro diagnosti quantitative Polymerase Chain F detection and genotyping of the The test detects the presence of and the pathogenic c.*97G>A van in genomic DNA isolated from wh aid in diagnosing patients with The cobas® Factor II Test and t used together for automated amy The limit of detection for this genomic DNA (2.5 ng/PCR reaction	c (G20210A) was NOT be homozygous for bes not rule out ot to venous thrombosi the cobas® Factor I ic device that uses Reaction (qPCR) for e human Factor II (of the wild type (W ciant (also known a hole blood specimen h suspected thrombo the cobas z 480 ana plification and det s test is 0.1 ng/uL pn).	DETEC the wi her s. I Test real- the F2) ge T) F2 s G202 s as a philia lyzer ection of	TED. .ld time ene. gene 210A) an a. are		Perfor	ming Site:

WMRL: WARDE MEDICAL LABORATORY 300 West Textile Road Ann Arbor MI 48108

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED



EXAMPLE, REPORT WX0000003039 M 12/05/1988 33 Y

		Molecul	ar				
		Collected	l: 02/19/2022	06:16	Received:	02/19/2022	06:16
Test Name		<u>Result</u>	<u>Flag</u>	Ref-Ranges	<u> </u>	<u>Jnits</u>	<u>Site</u>
Prothro	mbin 20210A Mutation Ana	alysis					
Prothrombi	n 20210A Mutation Analysis	Heterozygous	AB				WMRL
	Both the wild type (WT) F2 variant (G20210A) were dete c.*97G>A genotype for this c.*97G>A variant is associa prothrombin and an increase	gene and the c.*97 cted indicating a specimen. Heterozy ted with overprodu d risk for venous	G>A pathog heterozygo gosity for ction of F thrombosis	enic us the 2			
	Prothrombin thrombophilia i dominant manner and adults variant have a 2 to 5-fold The prevalence of c.*97G>A individuals of European des rare in individuals of Afri descent. The clinical expre thrombophilia is variable. never develop thrombosis. P c.*97G>A variant and the Fa experience earlier onset of more severe than presence o Genetic counseling is recom benefit of testing asymptom	s inherited in an heterozygous for t increased risk of heterozygosity is cent. The variant can, Asian, or Nat ssion of prothromb Many heterozygous atients heterozygo ctor V Leiden muta thrombosis that t f the individual a mended to help det atic family member	autosomal he c.*97G> thrombosis 2-5% in is extreme ive Americ in individual us for bot tion often ends to be lleles. ermine the s.	A · ly an s h			
	This test was performed usi (Roche) - an in vitro diagn quantitative Polymerase Cha detection and genotyping of The test detects the presen and the pathogenic c.*97G>A in genomic DNA isolated fro aid in diagnosing patients The cobas® Factor II Test a used together for automated The limit of detection for genomic DNA (2.5 ng/PCR rea	ng the cobas® Fact ostic device that in Reaction (qPCR) the human Factor ce of the wild typ variant (also known whole blood spect with suspected thr nd the cobas z 480 amplification and this test is 0.1 m ction).	or II Test uses real- for the II (F2) ge (WT) F2 wn as G202 imens as a ombophilia analyzer detection g/uL of	time ne. gene 10A) n are			
			WMRL: WARDE ME	DICAL LABORATO	RY 300 West Te	Perfori tile Road Ann Arbor	ming Site: MI 48108

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

D419000008 WX0000003039 Printed D&T: 02/19/22 06:17 Ordered By: CLIENT CLIENT WX0000000001595

William G. Finn, M.D. - Medical Director Form: MM RL1 PAGE 1 OF 1



Inactivate Test Without Replacement				
Effective Date	3/21/2022			
Name	Toxoplasma gondii DNA Quant			
Code	TXGOQ			
Legacy Code	TOXQNTQ			
Interface Code	3423700			
Notes				