



Hotline Page #	Test Number	Summary of Changes by Test Name	Name Change	Methodology	Performed/Reported Schedule	Specimen Requirements	Reference Interval	Interpretive Data	Note	CPT Code	Component Change	Other Interface Change	New Test	Inactive
5	<u>3000480</u>	Comprehensive Systemic Sclerosis Panel					х					x		
6	<u>3002463</u>	Connective Tissue Disease First Line Panel with Reflex					x					x		
7	<u>0051668</u>	Connective Tissue Diseases Profile		х			х					x		
8	<u>3003648</u>	COVID-19 IgG (Spike), Semi-Quantitative by CIA				х								
8	<u>2013562</u>	C-Peptide, 120 Minutes				х								
8	<u>2013564</u>	C-Peptide, 180 Minutes				х								
8	<u>2013558</u>	C-Peptide, 30 Minutes				х								
8	<u>2013560</u>	C-Peptide, 60 Minutes				х								
9	<u>3000529</u>	C-Peptide, Other				х		х						
9	<u>2011231</u>	Duchenne/Becker Muscular Dystrophy (DMD) Deletion/Duplication, Fetal				x								
10	<u>3001781</u>	Extended Myositis Panel		х			х					x		
11	<u>0050652</u>	Extractable Nuclear Antigen Antibodies (Smith/RNP, Smith, SSA 52, SSA 60, and SSB)		x			x					x		
11	<u>2001961</u>	Familial Mutation, Targeted Sequencing				х		x	х	х				
12	<u>2001980</u>	Familial Mutation, Targeted Sequencing, Fetal				х		x	х	х				
12	<u>2009034</u>	Fragile X (<i>FMR1</i>) with Reflex to Methylation Analysis, Fetal				x								
13	<u>0051270</u>	Galactosemia (GALT) 9 Mutations, Fetal		х		х								
13	<u>0091193</u>	Gamma-Hydroxybutyric Acid (GHB), Serum or Plasma - Screen with Reflex to Confirmation/Quantitation				x								
13	<u>0091161</u>	Gamma-Hydroxybutyric Acid (GHB), Urine - Screen with Reflex to Confirmation/Quantitation		x		x								
14	<u>2001755</u>	Hemophilia A (F8) 2 Inversions, Fetal				х								
14	<u>0091203</u>	Heroin - Screen with Reflex to Confirmation/Quantitation - Serum or Plasma				x								
14	<u>3002001</u>	Kell K/k (KEL) Antigen Genotyping				х								
15	<u>0091224</u>	LSD, Urine - Screen with Reflex to Confirmation/Quantitation				x								
15	<u>2014704</u>	Maternal T Cell Engraftment in SCID, Maternal Specimen				x								
15	<u>0091551</u>	Phenobarbital, Total/Unbound/Bound, S/P		х						х				
15	<u>3001170</u>	Platelet Antigen 1 Genotyping (HPA-1)			x	х								
16	<u>3000193</u>	Platelet Antigen Genotyping Panel				х								
16	<u>0070256</u>	Proinsulin, Intact/Insulin Ratio				x	x							
16	<u>2014351</u>	Rabies Antibody Screen by RFFIT, Serum	x			x								



Hotline Page #	Test Number	Summary of Changes by Test Name	Name Change	Methodology	Performed/Reported Schedule	Specimen Requirements	Reference Interval	Interpretive Data	Note	CPT Code	Component Change	Other Interface Change	New Test	Inactive
17	<u>3001053</u>	Red Blood Cell Antigen Genotyping				х								
17	<u>3002002</u>	RhC/c (RHCE) Antigen Genotyping				x								
17	<u>0051368</u>	RhD Gene (RHD) Copy Number			x	x								
18	<u>3002003</u>	RhE/e (RHCE) Antigen Genotyping				х								
18	<u>3000460</u>	Smith and Smith/RNP (ENA) Antibodies, IgG		х		x	x					x		
19	<u>0050470</u>	Smith/RNP (ENA) Antibody, IgG		х		x	x	x	x			x		
19	<u>2013444</u>	Spinal Muscular Atrophy (SMA) Copy Number Analysis, Fetal				x								
20	<u>0051508</u>	Thanatophoric Dysplasia, Types 1 and 2 (<i>FGFR3</i>) 13 Mutations, Fetal				x								
20	<u>0091585</u>	Tin Total Quantitative, Serum or Plasma				х				x				
20	<u>2005476</u>	von Willebrand Disease, Platelet Type (<i>GP1BA</i>) 3 Mutations	x	x		X		X						

0051265 Achondroplasia (FGFR3) 2 Mutations, Fetal

AD PCR FE

Performed: Varies **Reported:**

2-7 days

Specimen Required: Collect: Fetal specimen: Cultured amniocytes: Two T-25 flasks at 80 percent confluency.

OR cultured CVS: Two T-25 flasks at 80 percent confluency.

If the client is unable to culture amniocytes or CVS, this can be arranged by contacting ARUP Client Services at (800) 522-2787.

AND maternal cell contamination specimen: Lavender (EDTA), pink (K2EDTA), or yellow (ACD Solution A or B). Specimen Preparation: Cultured amniocytes AND cultured CVS: Transport two T-25 flasks at 80 percent confluency filled with culture media. Backup cultures must be retained at the client's institution until testing is complete.

Maternal cell contamination specimen: Transport 3 mL whole blood. (Min: 1 mL)

Storage/Transport Temperature: Cultured amniocytes and cultured CVS: CRITICAL ROOM TEMPERATURE. Must be received within 48 hours of shipment due to lability of cells.

Maternal cell contamination specimen: Refrigerated.

Remarks: Maternal specimen is recommended for proper test interpretation. Order Maternal Cell Contamination, Maternal Specimen. Please contact an ARUP genetic counselor at 800-242-2787 x2141 prior to sample submission. Patient History Form is available on the ARUP Web site or by contacting ARUP Client Services.

Unacceptable Conditions: Frozen specimens in glass collection tubes.

Stability (collection to initiation of testing): Cultured amniocytes and cultured CVS: Room Temperature: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable

Maternal cell contamination specimen: Room Temperature: 72 hours; Refrigerated: 1 week; Frozen: 1 month



0091328	Acyclovir, Serum or Plasma	ACYCLOV
Methodology:	Quantitative High Performance Liquid Chromatography-Tandem Mass Spectrometry (HPLC-MS/MS)	
Specimen Required:	 <u>Collect:</u> Plain red, Lavender (K₂ EDTA), or Pink (K₂ EDTA). <u>Specimen Preparation:</u> Separate serum or plasma from cells within 2 hours. Transfer 1 mL serum or plasma to a Transport Tube. (Min: 0.2 mL) Test is not performed at ARUP; separate specimens must be submitted when multiple tests are ordered. Storage/Transport Temperature: Refrigerated. Also acceptable: Room temperature and frozen. <u>Unacceptable Conditions:</u> Separator tubes. <u>Stability (collection to initiation of testing):</u> Ambient: 1 month; Refrigerated: 1 month; Frozen: 4 month 	an ARUP Standard
3003656	Alpha Thalassemia (<i>HBA1</i> and <i>HBA2</i>) Deletion/Duplication with reflex to Hb Constant Spring, Fetal	HBA DDCSFE
Specimen Required:	 <u>Collect:</u> Cultured amniocytes or Cultured CVS <u>AND Maternal Whole Blood Specimen</u>: Lavender (EDTA), Pink (K₂EDTA), or Yellow (ACD Solution A or Specimen Preparation: Cultured Amniocytes or Cultured CVS: Transfer cultured amniocytes or cultured CV 80 percent confluence. (Min: one T-25 flask at 80% confluence). Backup cultures must be retained at the client testing is complete. If the client is unable to culture amniocytes or CVS, this can be arranged by contactin Services at (800) 522-2787. Please contact an ARUP genetic counselor at (800) 242-2787 ext. 2141 prior to Maternal Whole Blood Specimen: Transport 2 mL whole blood. (Min: 1 mL) <u>Storage/Transport Temperature: Cultured Amniocytes or CVS</u>: CRITICAL ROOM TEMPERATURE. Must hours of collection due to viability of cells. <u>Maternal Whole Blood Specimen</u>: Room temperature. <u>Remarks:</u> Please contact an ARUP genetic counselor at 800-242-2787 x2141 prior to sample submission. F is available on the ARUP Web site or by contacting ARUP Client Services at (800) 522-2787. <u>Stability (collection to initiation of testing)</u>: Cultured Amniocytes or Cultured CVS: Room temperature: 48 F Unacceptable; Frozen: Unacceptable <u>Maternal Whole Blood Specimen</u>: Room temperature: 7 days; Refrigerated: 1 month; Frozen: Unacceptable 	S to two T-25 flasks at 's institution until g ARUP Client o test submission. be received within 48 Patient History Form
2008682	Anabolic Steroids, Urine - Screen with Reflex to Confirmation	STEROIDS
CPT Code(s):	80307; 82570; if positive add 80328 (Alt code: if positive add G0480)	
2012232	Angelman Syndrome and Prader-Willi Syndrome by Methylation-Sensitive PCR, Fetal	AS PWS FE
Performed: Reported:	Varies 2-7 days	
Specimen Required:	E Collect: Contact ARUP's genetic counselors at (800) 242-2787 extension 2141 prior to submission for specime submission information.	n requirements and

HOTLINE NOTE: Remove information found in the Specimen Preparation, Storage/Transport Temperature, Remarks, Unacceptable Conditions, and Stability fields.



0050388 Beta Globin (HBB) Sequencing, Fetal

Specimen Required: Collect: Fetal Specimen: Two T-25 flasks at 80% confluent of Cultured Amniocytes or Cultured Chorionic Villus Sampling (CVS). If the client is unable to culture amniocytes, this can be arranged by contacting ARUP Client Services at (800) 522-2787. Specimen Preparation: Cultured Amniocytes or Cultured CVS: Fill flasks with culture media. Transport two T-25 flasks at 80% confluent of cultured amniocytes or cultured CVS filled with culture media. Backup cultures must be retained at the client's institution until testing is complete.

AND Maternal Specimen: Transport 2 mL whole blood. (Min: 1 mL) Lavender (EDTA), Pink (K₂EDTA), or Yellow (ACD Solution A or B).

Storage/Transport Temperature: Cultured Amniocytes or Cultured CVS: CRITICAL ROOM TEMPERATURE. Must be received within 48 hours of shipment due to liability of cells.

Maternal Specimen: Room temperature

<u>Remarks:</u> Maternal specimen is recommended for proper test interpretation. Order Maternal Cell Contamination, Maternal Specimen. This can be arranged by contacting ARUP genetic counselors at (800) 242-2787 ext. 2141. Patient History Form is available on the ARUP Web site or by contacting ARUP Client Services.

Stability (collection to initiation of testing): Fetal Specimen: Ambient: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable Maternal Specimen: Ambient: 1 week; Refrigerated: 1 month

Reference Interval: By report

Interpretive Data: By report

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.

Counseling and informed consent are recommended for genetic testing. Consent forms are available online.

3000480 Comprehensive Systemic Sclerosis Panel

SCL COMPRE

Reference Interval:

Test Number	Components	Reference Interval	
0050599	Scleroderma (Scl-70) (ENA) Antibody, IgG		
		29 AU/mL or less	Negative
		30-40 AU/mL	Equivocal
		41 AU/mL or greater	Positive
0050470	Smith/RNP (ENA)	Effective September 7, 2021	
	Antibody, IgG		
		19 Units or less	Negative
		20 to 39 Units	Weak Positive
		40 to 80 Units	Moderate Positive
		81 Units or greater	Strong Positive
3000082	Antinuclear Antibody (ANA) with HEp-2 Substrate, IgG by IFA	Less than 1:80	
2012173	Fibrillarin (U3 RNP) Antibody, IgG	Negative	
2003040	PM/Scl-100 Antibody, IgG by Immunoblot	Negative	
2001601	RNA Polymerase III Antibody, IgG		
		19 Units or less	Negative
		20-39 Units	Weak Positive
		40-80 Units	Moderate Positive
		81 Units or greater	Strong Positive

HOTLINE NOTE: There is a unit of measure change associated with this test.

Change the unit of measure for component 0050470, Smith/RNP (ENA) Ab, IgG from AU/mL to Units.

BGSEQ FE



3002463 Connective Tissue Disease First Line Panel with Reflex

CTD PAN

Reference Interval:

Test Number	Components	Reference Interval					
0050215	Double-Stranded DNA (dsDNA) Antibody, IgG by ELISA with Reflex to dsDNA Antibody, IgG by IFA	Effective May 17,	2021				
		Test Number	Components	Refe	rence Interval		
			dsDNA (Double Stran DNA) Antibody, IgG	ded Refer	r to report		
		2002693	Double-Stranded DNA (dsDNA) Antibody, Ig by IFA (using <i>Crithida</i> <i>luciliae</i>)	G	r to report		
2002693	Double-Stranded DNA (dsDNA) Antibody, IgG by IFA (using Crithidia luciliae)	Less than 1:10					
0050470	Smith/RNP (ENA) Antibody, IgG	Effective Septemb	per 7, 2021				
		19 Units or less			Negative		
		20 to 39 Units 40 to 80 Units			Weak Positive Moderate Positive		
		81 Units or greater	r		Strong Positive		
0050085	Smith (ENA) Antibody, IgG						
		29 AU/mL or less			Negative		
		30-40 AU/mL Equivocal					
		41 AU/mL or grea	iter		Positive		
2012074	SSA 52 and 60 (Ro) (ENA) Antibodies, IgG						
		Test Number		Components		Reference Interval	
			S	SA-52 (Ro52	2) (ENA) Antibody, IgG	29 AU/mL or Less: Negative 30-40 AU/mL: Equivocal 41 AU/mL or greater: Positive	
			5	SA-60 (Ro60)) (ENA) Antibody, IgG	29 AU/mL or Less: Negative 30-40 AU/mL: Equivocal 41 AU/mL or greater: Positive	
0050692	SSB (La) (ENA) Antibody, IgG						
		29 AU/mL or less			Negative		
		30-40 AU/mL			Equivocal		
		41 AU/mL or grea	iter		Positive		
0099592	Jo-1 Antibody, IgG						
		29 AU/mL or less			Negative		
		30-40 AU/mL			Equivocal		
		41 AU/mL or grea	ter		Positive		
0050599	Scleroderma (Scl-70) (ENA) Antibody, IgG						
		29 AU/mL or less			Negative		
		30-40 AU/mL			Equivocal		
		41 AU/mL or great	ater		Positive		

HOTLINE NOTE: There is a unit of measure change associated with this test.

Change the unit of measure for component 0050470, Smith/RNP (ENA) Ab, IgG from AU/mL to Units.



0051668 Connective Tissue Diseases Profile

Methodology: Semi-Quantitative Enzyme-Linked Immunosorbent Assay Semi-Quantitative Multiplex Bead Assay

Reference Interval: Effective May 18, 2015

Test Number	Components	Reference Interval				
0050085	Smith (ENA) Antibody,					
	IgG					
		29 AU/mL or less	Negative			
		30-40 AU/mL	Equivocal Positive			
		41 AU/mL or greater	Positive			
0050470	Smith/RNP (ENA) Antibody, IgG	Effective September 7, 2021				
		19 Units	Negative			
		20 to 39 Units	Weak Posi	tive		
		40 to 80 Units	Moderate I			
		81 Units or greater	Strong Pos	itive		
2012024	004.50 1.60 (D.)					
2012074	SSA 52 and 60 (Ro) (ENA) Antibodies, IgG					
		Test Number	Components	Reference Interval		
			SSA-52 (Ro52) (ENA) Antibody	y, IgG 29 AU/mL or Less: Negative 30-40 AU/mL: Equivocal 41 AU/mL or greater: Positive		
			SSA-60 (Ro60) (ENA) Antibod	y, IgG 29 AU/mL or Less: Negative 30-40 AU/mL: Equivocal		
				41 AU/mL or greater: Positive		
0050692	SSB (La) (ENA) Antibody, IgG					
		29 AU/mL or less	Negative			
		30-40 AU/mL	Equivocal			
		41 AU/mL or greater	Positive			
0099592						
0099592	Jo-1 Antibody, IgG	20 411/ 1 1	XY			
		29 AU/mL or less 30-40 AU/mL	Negative Equivocal			
		41 AU/mL or greater	Positive			
			Tositive			
0099249	Ribosomal P Protein Antibody					
		29 AU/mL or less	Negative			
		30-40 AU/mL	Equivocal			
		41 AU/mL or greater	Positive			
0050714	Centromere Antibody, IgG					
		29 AU/mL or less	Negative			
		30-40 AU/mL	Equivocal			
		41 AU/mL or greater	Positive			
0050599	Scleroderma (Scl-70) (ENA) Antibody, IgG					
		29 AU/mL or less	Negative			
		30-40 AU/mL	Equivocal			
		41 AU/mL or greater	Positive			

HOTLINE NOTE: There is a unit of measure change associated with this test.

Change the unit of measure for component 0050470, Smith/RNP (ENA) Ab, IgG from AU/mL to Units.

CONN



3003648 COVID-19 IgG (Spike), Semi-Quantitative by CIA

Specimen Required: Collect: Serum separator tube (SST). Also acceptable: lithium heparin.

Specimen Preparation: Separate serum or plasma from cells ASAP or within 2 hours of collection. Transfer 1 mL serum or plasma to an ARUP Standard Transport Tube. (Min: 0.5 mL)

Storage/Transport Temperature: Refrigerated.

<u>Unacceptable Conditions:</u> Specimens containing particulate material or otherwise obviously contaminated. Severely hemolyzed, heat-inactivated, severely icteric or lipemic specimens.

Stability (collection to initiation of testing): After separation from cells: Ambient: 72 hours; Refrigerated: 1 week; Frozen: 1 month (avoid repeated freeze/thaw cycles)

2013562 C-Peptide, 120 Minutes

Specimen Required: Patient Prep: Fasting specimen preferred.

<u>Collect:</u> Serum Separator Tube (SST) <u>Specimen Preparation:</u> Allow specimen to clot completely at room temperature. Separate from cells ASAP or within 2 hours of collection. Transport 1 mL serum to an ARUP Standard Transport Tube. <u>Storage/Transport Temperature:</u> Frozen. <u>Unacceptable Conditions:</u> Grossly hemolyzed specimens. <u>Stability (collection to initiation of testing)</u>: After separation from cells: Ambient: 8 hours; Refrigerated: 7 days; Frozen: 1 month

2013564 C-Peptide, 180 Minutes

Specimen Required: Patient Prep: Fasting specimen preferred.

Collect: Serum Separator Tube (SST)

<u>Specimen Preparation:</u> Allow specimen to clot completely at room temperature. Separate from cells ASAP or within 2 hours of collection. Transport 1 mL serum to an ARUP Standard Transport Tube. <u>Storage/Transport Temperature:</u> Frozen. <u>Unacceptable Conditions:</u> Grossly hemolyzed specimens. <u>Stability (collection to initiation of testing)</u>: After separation from cells: Ambient: 8 hours; Refrigerated: 7 days; Frozen: 1 month

2013558 C-Peptide, 30 Minutes

Specimen Required: Patient Prep: Fasting specimen preferred.

<u>Collect:</u> Serum Separator Tube (SST) <u>Specimen Preparation:</u> Allow specimen to clot completely at room temperature. Separate from cells ASAP or within 2 hours of collection. Transport 1 mL serum to an ARUP Standard Transport Tube. (Min: 0.5 mL) <u>Storage/Transport Temperature:</u> Frozen. <u>Unacceptable Conditions:</u> Grossly hemolyzed specimens.

Stability (collection to initiation of testing): After separation from cells: Ambient: 8 hours; Refrigerated: 7 days; Frozen: 1 month

2013560 C-Peptide, 60 Minutes

C PEP 60

Specimen Required: Patient Prep: Fasting specimen preferred.

Collect: Serum Separator Tube (SST)

Specimen Preparation: Allow specimen to clot completely at room temperature. Separate from cells ASAP or within 2 hours of collection. Transport 1 mL serum to an ARUP Standard Transport Tube. (Min: 0.5 mL)

Storage/Transport Temperature: Frozen.

Unacceptable Conditions: Grossly hemolyzed specimens.

Stability (collection to initiation of testing): After separation from cells: Ambient: 8 hours; Refrigerated: 7 days; Frozen: 1 month

COV19G SQ

C PEP 180

C PEP 30

C PEP 120



3000529 C-Peptide, Other

CPEPOTHER

Specimen Required: Patient Prep: Fasting specimen preferred.

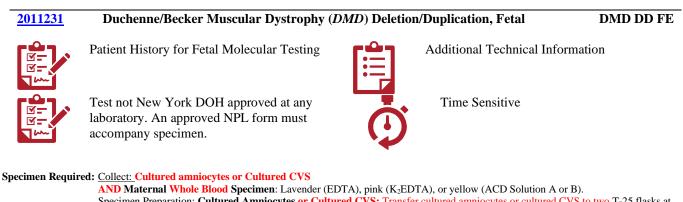
Collect: Serum Separator Tube (SST)

Specimen Preparation: Allow specimen to clot completely at room temperature. Separate from cells ASAP or within 2 hours of collection. Transport 1 mL serum in an ARUP Standard Transport Tube. (Min: 0.5 mL) Storage/Transport Temperature: Frozen. Unacceptable Conditions: Grossly hemolyzed specimens.

Stability (collection to initiation of testing): After separation from cells: Ambient: 8 hours; Refrigerated: 7 days; Frozen: 1 month

Interpretive Data:

The reference interval for fasting c-peptide is 0.5-3.3 ng/mL. To convert to nmol/L, multiply ng/mL by 0.33.



Specimen Preparation: Cultured Anniocytes or Cultured CVS: Transfer cultured amniocytes or cultured CVS to two T-25 flasks at 80 percent confluence. (Min: one T-25 flask at 80% confluence). Backup cultures must be retained at the client's institution until testing is complete. If the client is unable to culture amniocytes or CVS, this can be arranged by contacting ARUP Client Services at (800) 522-2787. Please contact an ARUP genetic counselor at (800) 242-2787 ext. 2141 prior to test submission. Maternal Whole Blood Specimen: Transport 2 mL whole blood. (Min: 1 mL)

Storage/Transport Temperature: Cultured Amniocytes or Cultured CVS: CRITICAL ROOM TEMPERATURE. Must be received within 48 hours of collection due to viability of cells.

Maternal Whole Blood Specimen: Room temperature.

<u>Remarks:</u> Please contact an ARUP genetic counselor at (800) 242-2787 ext. 2141 prior to sample submission. Patient History Form is available on the ARUP Web site or by contacting ARUP Client Services at (800) 522-2787.

<u>Stability (collection to initiation of testing):</u> Cultured Amniocytes or Cultured CVS: Room temperature: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable

Maternal Whole Blood Specimen: Room temperature: 7 days; Refrigerated: 1 month; Frozen: Unacceptable



<u>3001781</u> Extended Myositis Panel

MYOS EXT

Methodology:

logy: Semi-Quantitative Enzyme-Linked Immunosorbent Assay/Qualitative Immunoprecipitation/Semi-Quantitative Multiplex Bead Assay/Qualitative Immunoblot

Reference Interval:

Test Number	Components	Reference Interval			
2012074	SSA 52 and 60 (Ro) (ENA) Antibodies, IgG				
		Test Number	Components		Reference Interval
			SSA-52 (Ro52) (ENA	, ,,,,	29 AU/mL or Less: Negative 30-40 AU/mL: Equivocal 41 AU/mL or greater: Positive
			SSA-60 (Ro60) (ENA	A) Antibody, IgG	29 AU/mL or Less: Negative 30-40 AU/mL: Equivocal 41 AU/mL or greater: Positive
0050470	Smith/RNP (ENA) Antibody, IgG	Effective September 7, 2021			
		19 Units or less		Negative	
		20 to 39 Units		Weak Positive	
		40 to 80 Units		Moderate Positive	
		81 Units or greater		Strong Positive	
0099592	Jo-1 Antibody, IgG				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	29 AU/mL or less		Negative	
		30-40 AU/mL		Equivocal	
		41 AU/mL or greater		Positive	
2012173	Fibrillarin (U3 RNP) Antibody, IgG	Negative			
2003040	PM/Scl-100 Antibody, IgG by Immunoblot	Negative			
	Mi-2 (nuclear helicase protein) Antibody	Negative			
	PL-7 (threonyl-tRNA synthetase) Antibody	Negative			
	PL-12 (alanyl-tRNA synthetase) Antibody	Negative			
	P155/140 Antibody	Negative			
	EJ (glycyl-tRNA synthetase) Antibody	Negative			
	Ku Antibody	Negative			
	SRP (Signal Recognition Particle) Ab	Negative			
	OJ (isoleucyl-tRNA synthetase) Antibody	Negative			
	SAE1 (SUMO activating enzyme) Ab	Negative			
	MDA5 (CADM-140) Ab	Negative			
	NXP2 (Nuclear matrix protein-2) Ab	Negative			
	TIF-1 gamma (155 kDa) Ab	Negative			

HOTLINE NOTE: There is a unit of measure change associated with this test.

Change the unit of measure for component 0050470, Smith/RNP (ENA) Ab, IgG from AU/mL to Units.



0050652 Extractable Nuclear Antigen Antibodies (Smith/RNP, Smith, SSA 52, SSA 60, and ENA ABS4 SSB)

Methodology: Semi-Quantitative Enzyme-Linked Immunosorbent Assay Semi-Quantitative Multiplex Bead Assay

Reference Interval: Effective May 18, 2015

Test Number	Components	Reference Interval			
0050470	Smith/RNP (ENA) Antibody, IgG	Effective September 7, 2021			
		19 Units or less		Negative	
		20 to 39 Units		Weak Positive	
		40 to 80 Units		Moderate Positive	
		81 Units or greater		Strong Positive	
0050085	Smith (ENA) Antibody, IgG				
		29 AU/mL or less		Negative	
		30-40 AU/mL		Equivocal	
		41 AU/mL or greater		Positive	
2012074	SSA 52 and 60 (Ro) (ENA) Antibodies, IgG				
		Test Number	Components		Reference Interval
			SSA-52 (Ro52) (E	NA) Antibody, IgG	29 AU/mL or Less: Negative 30-40 AU/mL: Equivocal 41 AU/mL or greater: Positive
			SSA-60 (Ro60) (ENA) Antibody, IgG		29 AU/mL or Less: Negative 30-40 AU/mL: Equivocal 41 AU/mL or greater: Positive
0050692	SSB (La) (ENA) Antibody, IgG				
	7 mabody, 150	29 AU/mL or less		Negative	
		30-40 AU/mL		Equivocal	
		41 AU/mL or greater		Positive	

HOTLINE NOTE: There is a unit of measure change associated with this test.

Change the unit of measure for component 0050470, Smith/RNP (ENA) Ab, IgG from AU/mL to Units.

2001961 Familial Mutation, Targeted Sequencing

SEQ FSM

Specimen Required: <u>Collect:</u> Contact ARUP's genetic counselor at (800) 242-2787 extension 2141 prior to test submission for specimen requirements and submission information.

<u>Remarks</u>: Documentation of the familial gene variants(s) is required to perform targeted sequencing. Submit a copy of a relative's laboratory test report documenting the gene and specific variants(s) for which testing is requested.

Submit a positive control with the patient specimen for appropriate interpretation, order Sequencing Control (test code 0051650). Samples tested without a familial positive control may be subject to a disclaimer.

Testing will begin upon receipt of all necessary components, including an original laboratory report detailing the familial variant(s) to be tested and a familial positive control sample.

Interpretive Data: By report

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Counseling and informed consent are recommended for genetic testing. Consent forms are available online.

CPT Code(s): Varies by gene

HOTLINE NOTE: Remove information found in the Note field.



2001980 **Familial Mutation, Targeted Sequencing, Fetal**

Specimen Required: Collect: Contact ARUP's genetic counselors at (800) 242-2787 extension 2141 prior to test submission for specimen requirements and submission information.

> Remarks: Documentation of the familial gene variants(s) is required to perform targeted sequencing. Submit a copy of a relative's laboratory test report documenting the gene and specific variants(s) for which testing is requested. Submit a positive control with the patient specimen for appropriate interpretation, order Sequencing Control. Fetal samples tested without a familial positive control may be subject to a disclaimer. A maternal specimen is recommended for proper fetal test interpretation. Order Maternal Cell Contamination, Maternal Specimen. Testing will begin upon receipt of all necessary components, including: an original laboratory report detailing the familial variant(s) to be tested, a maternal specimen for maternal cell contamination testing, and a familial positive control sample.

Interpretive Data: By report

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Counseling and informed consent are recommended for genetic testing. Consent forms are available online.

CPT Code(s): Varies by gene; 81265 Fetal Cell Contamination.

HOTLINE NOTE: Remove information found in the Note, Specimen Preparation, and Stability fields.





•	
•	
•	



Time Sensitive

Specimen Required: Collect: Cultured Amniocytes or Cultured CVS

AND Maternal Whole Blood Specimen: Lavender (EDTA), pink (K₂EDTA), or yellow (ACD Solution A or B). Specimen Preparation: Cultured Amniocytes or Cultured CVS: Transfer cultured amniocytes or cultured CVS to two T-25 flasks at 80 percent confluence (Min: one T-25 flask at 80% confluence). Backup cultures must be retained at the client's institution until testing is complete. If the client is unable to culture amniocytes or CVS, this can be arranged by contacting ARUP Client Services at (800) 522-2787. Please contact an ARUP genetic counselor at (800) 242-2787 ext. 2141 prior to test submission. Maternal Whole Blood Specimen: Transport 2 mL whole blood. (Min: 1 mL)

Storage/Transport Temperature: Cultured Amniocytes or Cultured CVS: CRITICAL ROOM TEMPERATURE. Must be received within 48 hours of collection due to viability of cells.

Maternal Whole Blood Specimen: Room temperature.

Remarks: Please contact an ARUP genetic counselor at (800) 242-2787 ext. 2141 prior to sample submission. Patient History Form is available on the ARUP Web site or by contacting ARUP Client Services at (800) 522-2787.

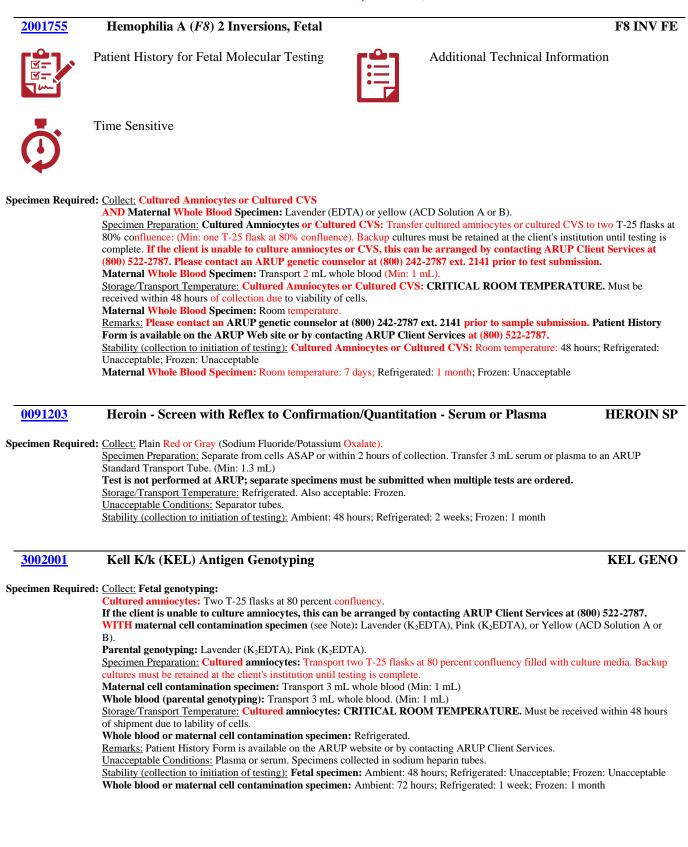
Stability (collection to initiation of testing): Cultured Amniocytes or Cultured CVS: Room temperature: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable

Maternal Whole Blood Specimen: Room temperature: 7 days; Refrigerated: 1 month; Frozen: Unacceptable



<u>0051270</u>	Galactosemia (GALT) 9 Mutations, Fetal	GALTDNA FE
	Patient History for Fetal Molecular Testing	Additional Technical Information
Ø	Time Sensitive	
Methodology:	Polymerase Chain Reaction/Single Nucleotide Extension	
Specimen Require	 <u>Collect:</u> Cultured Amniocytes, Cultured CVS, or Amniotic fluid (direct) AND Maternal Whole Blood Specimen: Lavender (EDTA), pink (K₂EDT Specimen Preparation: Cultured Amniocytes or Cultured CVS: Transf 80% confluence. (Min: one T-25 flask at 80% confluence). Backup cultur complete. If the client is unable to culture amniocytes or CVS, this car (800) 522-2787. Please contact an ARUP genetic counselor at (800) 24 Amniotic Fluid (direct): 10 milliliters Maternal Whole Blood Specimen: 2 mL whole blood (Min: 1 mL). Storage/Transport Temperature: Cultured Amniocytes or Cultured CV received within 48 hours of collection due to viability of cells. Amniotic fluid (direct): Ship room temperature. Maternal Whole Blood Specimen: Room temperature. Maternal Whole Blood Specimen: Room temperature. <u>Remarks:</u> Please contact an ARUP genetic counselor at (800) 242-2787 e are available on aruplab.com or by contacting ARUP Client Services at (8 Stability (collection to initiation of testing): Cultured Amniocytes or Cu Unacceptable; Frozen: Unacceptable Amniotic Fluid (direct): Room temperature: 48 hours; Refrigerated: 72 1 Maternal Whole Blood Specimen: Room temperature: 7 days; Refrigerated: 72 1 	er cultured amniocytes or cultured CVS to two T-25 flasks at res must be retained at the client's institution until testing is n be arranged by contacting ARUP Client Services at 12-2787 ext. 2141 prior to test submission. S: CRITICAL ROOM TEMPERATURE. Must be xt. 2141 prior to sample submission. Patient History Forms 300) 522-2787. Iltured CVS: Room temperature: 48 hours; Refrigerated: hours; Frozen: Unacceptable
<u>0091193</u>	Gamma-Hydroxybutyric Acid (GHB), Serum or Plasn Confirmation/Quantitation	ha - Screen with Reflex to GHB SP
Specimen Require	1: <u>Collect:</u> Plain Red, Lavender (EDTA), or Pink (K ₂ EDTA).	
	Specimen Preparation: Separate from cells ASAP or within 2 hours of co Transport Tubes. (Min: 2.4 mL)	llection. Transfer 5 mL serum or Plasma to ARUP Standard
	Test is not performed at ARUP; separate specimens must be submitted <u>Storage/Transport Temperature</u> : Refrigerated. Also acceptable: Room tem	
	<u>Unacceptable Conditions:</u> Separator tubes or citrate buffered tubes. <u>Stability (collection to initiation of testing)</u> : Ambient: 1 week; Refrigerate	ed: 1 week; Frozen: 2 months
<u>0091161</u>	Gamma-Hydroxybutyric Acid (GHB), Urine - Screen Confirmation/Quantitation	with Reflex to GHB U
Methodology:	Qualitative Gas Chromatography-Mass Spectrometry/Quantitative Gas C	hromatography-Mass Spectrometry (HPLC-MS/MS)
Specimen Require	I: Specimen Preparation: Transfer 5 mL urine to ARUP Standard Transport Test is not performed at ARUP; separate specimens must be submitted Storage/Transport Temperature: Refrigerated. Also acceptable: Room ten Stability (collection to initiation of testing): Ambient: 1 week; Refrigerated	ed when multiple tests are ordered. nperature or frozen.







0091224	LSD, Urine - Screen with Reflex to Confirmation/Quantitation	LSD URN
Specimen Require	d: <u>Collect:</u> Urine.	
	Specimen Preparation: Transfer 2 mL urine to an ARUP Standard Transport Tube. (Min: 0.9 mL)	
	Test is not performed at ARUP; separate specimens must be submitted when multiple tests are ordered. <u>Storage/Transport Temperature:</u> Refrigerated. Also acceptable: Frozen.	
	Stability (collection to initiation of testing): Ambient: 24 hours; Refrigerated: 1 month; Frozen: 1 month	
<u>2014704</u>	Maternal T Cell Engraftment in SCID, Maternal Specimen	SCID-MAT
Specimon Dequire	d: Collect: Lavender (EDTA), Pink (K ₂ EDTA), or Yellow (ACD Solution A).	
Specifien Require	New York State Clients: Lavender (EDTA), or Yellow (ACD Solution A).	
	Specimen Preparation: Transport 2 mL whole blood. (Min: 1 mL)	
	New York State Clients: Transport 9 mL whole blood. (Min: 4 mL). Do not send to ARUP Laboratories. Spe	
	received at performing laboratory within 48 hours of collection. For specimen requirements and direct submissio contact ARUP Referral Testing at (800) 242-2787, ext. 5145.	on instructions please
	Storage/Transport Temperature: Refrigerated	
	Stability (collection to initiation of testing): Room Temperature: 1 week; Refrigerated: 1 month; Frozen: unacce	ptable
	New York State Clients: Room Temperature: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable	
0091551	Phenobarbital, Total/Unbound/Bound, S/P	PHENOBAR
Methodology:	Quantitative High Performance Liquid Chromatography-Tandem Mass Spectrometry (HPLC-MS/MS)	
CPT Code(s):	80184 x2	
<u>3001170</u>	Platelet Antigen 1 Genotyping (HPA-1)	HPA-1 GENO
Performed:	Varies	
Reported:	7-14 days	
Specimen Require	d: <u>Collect:</u> Fetal specimen: Cultured amniocytes: Two T-25 flasks at 80 percent confluency.	
	If the client is unable to culture amniocytes, this can be arranged by contacting ARUP Client Services at (
	WITH maternal cell contamination specimen (see Note): Lavender (EDTA), Pink (K ₂ EDTA), or Yellow (AC	CD Solution A or B).
	Parental specimen: Lavender (EDTA). <u>Specimen Preparation:</u> Cultured amniocytes: Transport two T-25 flasks at 80 percent confluency filled with cu	lture media Backun
	cultures must be retained at the client's institution until testing is complete.	пите течна. Васкир
	Maternal cell contamination specimen: Transport 3 mL whole blood. (Min: 1 mL)	
	Whole blood (parental genotyping): Transport 3 mL whole blood. (Min: 1 mL)	
	Storage/Transport Temperature: Cultured amniocytes: CRITICAL ROOM TEMPERATURE. Must be receipted and the temperature of a contract of the storage of the sto	ived within 48 hours
	of shipment due to lability of cells. Whole blood or maternal cell contamination specimen: Refrigerated.	
	Unacceptable Conditions: Frozen specimens in glass collection tubes.	
	Stability (collection to initiation of testing): Fetal specimen: Ambient: 48 hours; Refrigerated: Unacceptable; Fr	1
	Whole blood or maternal cell contamination specimen: Ambient: 72 hours; Refrigerated: 1 week; Frozen: 1 n	nonth



<u>3000193</u> Platelet Antigen Genotyping Panel

Specimen Required: Collect: Fetal genotying: Cultured amniocytes: Two T-25 flasks at 80 percent confluency. If the client is unable to culture amniocytes, this can be arranged by contacting ARUP Client Services at (800) 522-2787. WITH maternal cell contamination specimen: Lavender (EDTA), Pink (K₂EDTA), or Yellow (ACD Solution A or B). Parental genotyping: Lavender (EDTA). Specimen Preparation: Cultured amniocytes: Transport two T-25 flasks at 80 percent confluency filled with culture media. Backup cultures must be retained at the client's institution until testing is complete. Maternal cell contamination specimen: Transport 3 mL whole blood. (Min: 1 mL)
Whole blood (parental genotyping): Transport 3 mL whole blood. (Min: 1 mL)
Storage/Transport Temperature: Cultured amniocytes: CRITICAL ROOM TEMPERATURE. Must be received within 48 hours of shipment due to lability of cells.
Whole blood or maternal cell contamination specimen: Refrigerated. Unacceptable Conditions: Frozen specimens in glass collection tubes. Stability (collection to initiation of testing): Fetal specimen: Ambient: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable Whole blood or maternal cell contamination specimen: Ambient: 72 hours; Refrigerated: 1 week; Frozen: 1 month

0070256 Proinsulin, Intact/Insulin Ratio

PRO INS

Specimen Required: Patient Prep: Patient must be fasting for 12-15 hours prior to collection.

Collect: Serum Separator Tube (SST).

Specimen Preparation: Separate from cells ASAP or within 2 hours of collection. Transfer 1 mL serum to an ARUP Standard Transport Tube and freeze immediately. (Min: 0.8 mL)

Storage/Transport Temperature: CRITICAL FROZEN. Separate specimens must be submitted when multiple tests are ordered. Unacceptable Conditions: Heparinized plasma. Vitreous or I.V. fluids. Hemolyzed specimens.

Stability (collection to initiation of testing): After separation from cells: Ambient: Unacceptable; Refrigerated: 48 hours; Frozen: 2 months (avoid repeated freeze/thaw cycles)

Reference Interval:

Available Separately	Component	Reference Interval
Yes (0070063)	Insulin, Fasting	Effective September 7, 2021
		3-25 µIU/mL
Yes (0070112)	Proinsulin, Intact	0-17 years: Not established
		Effective May 19th, 2014
		18 years and older: Less than or equal to 8.0 pmol/L
No	Proinsulin, Intact/Insulin Ratio Calculation	Proinsulin, Intact/Insulin Ratio as Percent:
		0-17 years: Not established
		18 years and older: 0.8-21.7 percent

2014351 Rabies Antibody Screen by RFFIT, Serum

RABIES AB

Specimen Required: Collect: Plain Red or Serum Separator Tube (SST).

<u>Specimen Preparation:</u> Transfer 2 mL serum to an ARUP Standard Transport Tube. (Min: 0.25 mL) **Test is not performed at ARUP; separate specimens must be submitted when multiple tests are ordered.** <u>Storage/Transport Temperature:</u> Refrigerated. Also acceptable: Room temperature or frozen. <u>Stability (collection to initiation of testing)</u>: Ambient: 1 week; Refrigerated: 2 weeks; Frozen: 1 month HPA GENO



Red Blood Cell Antigen Genotyping

3001053

Specimen Required: Collect: Fetal genotyping: Cultured amniocytes: Two T-25 flasks at 80 percent confluency. If the client is unable to culture amniocytes, this can be arranged by contacting ARUP Client Services at (800) 522-2787.

WITH maternal cell contamination specimen: Lavender (K₂EDTA), Pink (K₂EDTA), or Yellow (ACD Solution A or B). OR Genotyping: Lavender (K₂EDTA), Pink (K₂EDTA) OR

Specimen Preparation: Genotyping: Transport 3 mL whole blood. (Min: 1 mL)

Cultured amniocytes: Transport two T-25 flasks at 80 percent confluency filled with culture media. Backup cultures must be retained at the client's institution until testing is complete.

Maternal cell contamination specimen: Transport 3 mL whole blood (Min: 1 mL)

Storage/Transport Temperature: Cultured amniocytes: CRITICAL ROOM TEMPERATURE. Must be received within 48 hours of shipment due to lability of cells.

Whole blood or maternal cell contamination specimen: Refrigerated.

<u>Remarks:</u> Maternal specimen is recommended for proper test interpretation if contamination of the fetal specimen from the mother is suspected. Order Maternal Cell Contamination.

<u>Unacceptable Conditions:</u> Plasma or serum; collection of specimens in sodium heparin tubes. Frozen specimens in glass collection tubes.

Stability (collection to initiation of testing): Whole blood or maternal cell contamination specimen: Ambient: 72 hours; Refrigerated: 1 week; Frozen: 1 month

Fetal specimen: Ambient: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable

3002002 RhC/c (RHCE) Antigen Genotyping

RHC GENO

RHD

RBC GENO

Specimen Required: Collect: Fetal genotyping: Cultured amniocytes: Two T-25 flasks at 80 percent confluency. If the client is unable to culture amniocytes, this can be arranged by contacting ARUP Client Services at (800) 522-2787.

WITH maternal cell contamination specimen (see Note): Lavender (K₂EDTA), Pink (K₂EDTA), or Yellow (ACD Solution A or B). Parental genotyping: Lavender (K₂EDTA), Pink (K₂EDTA)

Specimen Preparation: Cultured amniocytes: Transport two T-25 flasks at 80 percent confluency filled with culture media. Backup cultures must be retained at the client's institution until testing is complete.

Maternal cell contamination specimen: Transport 3 mL whole blood (Min: 1 mL)

Whole blood (parental genotyping): Transport 3 mL whole blood. (Min: 1 mL)

Storage/Transport Temperature: Cultured amniocytes: CRITICAL ROOM TEMPERATURE. Must be received within 48 hours of shipment due to lability of cells.

Whole blood or maternal cell contamination specimen: Refrigerated.

Remarks: Patient History Form is available on the ARUP website or by contacting ARUP Client Services.

Unacceptable Conditions: Plasma or serum. Specimens collected in sodium heparin tubes.

Stability (collection to initiation of testing): Fetal specimen: Ambient: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable Whole blood or maternal cell contamination specimen: Ambient: 72 hours; Refrigerated: 1 week; Frozen: 1 month

0051368 RhD Gene (*RHD*) Copy Number

Performed:VariesReported:7-14 days

Specimen Required: <u>Collect:</u> Fetal genotyping: <u>Cultured amniocytes</u>: Two T-25 flasks at 80 percent confluency.

If the client is unable to culture amniocytes, this can be arranged by contacting ARUP Client Services at (800) 522-2787. WITH maternal cell contamination specimen (see Remarks): Lavender (EDTA), pink (K₂EDTA), or yellow (ACD Solution A or B).

Parental genotyping: Lavender (EDTA), pink (K2EDTA), or yellow (ACD Solution A or B).

Specimen Preparation: Cultured amniocytes: Transport two T-25 flasks at 80 percent confluency filled with culture media. Backup cultures must be retained at the client's institution until testing is complete.

Maternal cell contamination specimen: Transport 3 mL whole blood (Min: 1 mL)

Whole blood (parental genotyping): Transport 3 mL whole blood. (Min: 1 mL)

Storage/Transport Temperature: Cultured amniocytes: CRITICAL ROOM TEMPERATURE. Must be received within 48 hours of shipment due to lability of cells.

Whole blood or maternal cell contamination specimen: Refrigerated.

<u>Remarks:</u> Maternal specimen is recommended for proper test interpretation if contamination of the fetal specimen from the mother is suspected. Order Maternal Cell Contamination. Patient History Form is available on the ARUP website or by contacting ARUP Client Services.

Unacceptable Conditions: Frozen specimens in glass collection tubes.

Stability (collection to initiation of testing): Fetal Specimen: Ambient: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable Whole blood or maternal cell contamination specimen: Ambient: 72 hours; Refrigerated: 1 week; Frozen: 1 month



<u>3002003</u> RhE/e (RHCE) Antigen Genotyping

Specimen Required: <u>Collect:</u> Fetal genotyping: Cultured amniocytes: Two T-25 flasks at 80 percent confluency. If the client is unable to culture amniocytes, this can be arranged by contacting ARUP Client Services at (800) 522-2787. WITH maternal cell contamination specimen (see Note): Lavender (K₂EDTA), Pink (K₂EDTA), or Yellow (ACD Solution A or B). Parental genotyping: Lavender (K₂EDTA), Pink (K₂EDTA). Specimen Preparation: <u>Cultured amniocytes:</u> Transport two T-25 flasks at 80 percent confluency filled with culture media. Backup cultures must be retained at the client's institution until testing is complete. Maternal cell contamination specimen: Transport 3 mL whole blood (Min: 1 mL) Whole blood (parental genotyping): Transport 3 mL whole blood. (Min: 1 mL) Storage/Transport Temperature: Cultured amniocytes: CRITICAL ROOM TEMPERATURE. Must be received within 48 hours of shipment due to lability of cells. Whole blood or maternal cell contamination specimen: Refrigerated. <u>Remarks:</u> Patient History Form is available on the ARUP Web site or by contacting ARUP Client Services. Unacceptable Conditions: Plasma or serum. Specimens collected in sodium heparin tubes. Stability (collection to initiation of testing): Fetal specimen: Ambient: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable Whole blood or maternal cell contamination specimen: Ambient: 72 hours; Refrigerated: 1 week; Frozen: 1 month

3000460 Smith and Smith/RNP (ENA) Antibodies, IgG

SMITH_RNP

Methodology: Semi-Quantitative Enzyme-Linked Immunosorbent Assay Semi Quantitative Multiplex Bead Assay

Specimen Required: Collect: Serum Separator Tube (SST).

Specimen Preparation: Separate from cells ASAP or within 2 hours of collection. Transfer 1 mL serum to an ARUP Standard Transport Tube. (Min: 0.2 mL)

Storage/Transport Temperature: Refrigerated.

Unacceptable Conditions: Plasma or other body fluids. Contaminated, hemolyzed, or severely lipemic specimens.

Stability (collection to initiation of testing): After separation from cells: Ambient: 48 hours; Refrigerated: 2 weeks; Frozen: 30 days (avoid repeated freeze/thaw cycles)

Reference Interval:

Test Number	Components	Reference Interval		
0050470 Smith/RNP (ENA)		Effective September 7, 2021		
	Antibody, IgG	19 Units or less	Negative	
		20-39 Units	Weak Positive	
		40-80 Units	Moderate Positive	
		81 Units or greater	Strong Positive	
0050085	Smith (ENA) Antibody, IgG			
		29 AU/mL or less	Negative	
		30-40 AU/mL	Equivocal	
		41 AU/mL or greater	Positive	

HOTLINE NOTE: There is a unit of measure change associated with this test.

Change the unit of measure for component 0050470, Smith/RNP (ENA) Ab, IgG from AU/mL to Units.

RHE GENO



0050470 Smith/RNP (ENA) Antibody, IgG

Methodology: Semi-Quantitative Enzyme-Linked Immunosorbent Assay

Specimen Required: Collect: Serum separator tube.

Specimen Preparation: Separate serum from cells ASAP or within 2 hours of collection. Transfer 1 mL serum to an ARUP Standard Transport Tube. (Min: 0.2 mL) Storage/Transport Temperature: Refrigerated. Unacceptable Conditions: Plasma or other body fluids. Contaminated, hemolyzed, or severely lipemic specimens.

<u>Stability (collection to initiation of testing):</u> After separation from cells: Ambient: 48 hours; Refrigerated: 2 weeks; Frozen: 30 days (avoid repeated freeze/thaw cycles)

Reference Interval:

Effective September 7, 2021

19 Units or less	Negative
20-39 Units	Weak Positive
40-80 Units	Moderate Positive
81 Units or greater	Strong Positive

Interpretive Data:

Smith/RNP antibodies are frequently seen in patients with mixed connective tissue disease (MCTD) and are also associated with other systemic autoimmune rheumatic diseases (SARDs), such as systemic lupus erythematosus (SLE), systemic sclerosis, and myositis. Antibodies targeting the Smith/RNP antigenic complex also recognize Smith antigens, therefore, the Smith antibody response must be considered when interpreting these results.

Note: An affinity purified RNP/Sm antigen complex is used in this assay.

HOTLINE NOTE: There is a unit of measure change associated with this test.

Change the unit of measure for component 0050470, Smith/RNP (ENA) Ab, IgG from AU/mL to Units.

2013444 Spinal Muscular Atrophy (SMA) Copy Number Analysis, Fetal

SMA DD FE



Patient History for Fetal Molecular Testing

	- ی
•	
•	
•	

Additional Technical Information

Time Sensitive

Specimen Required: Collect: Cultured amniocytes or Cultured CVS

AND Maternal Whole Blood Specimen: Lavender (EDTA), Pink (K₂EDTA), or Yellow (ACD Solution A or B). <u>Specimen Preparation:</u> Cultured Amniocytes or Cultured CVS: Transfer cultured amniocytes or cultured CVS to two T-25 flasks at 80 percent confluence (Min: one T-25 flask at 80% confluence). Backup cultures must be retained at the client's institution until testing is complete. If the client is unable to culture amniocytes or CVS, this can be arranged by contacting ARUP Client Services at (800) 522-2787. Please contact an ARUP genetic counselor at (800) 242-2787 ext. 2141 prior to test submission. Maternal Whole Blood Specimen: Transport 2 mL whole blood. (Min: 1 mL)

Storage/Transport Temperature: Cultured Amniocytes or Cultured CVS: CRITICAL ROOM TEMPERATURE. Must be received within 48 hours of collection due to viability of cells.

Maternal Whole Blood Specimen: Room temperature.

<u>Remarks:</u> Please contact an ARUP genetic counselor at 800-242-2787 x2141 prior to sample submission. Patient History Form is available on the ARUP Web site or by contacting ARUP Client Services at (800) 522-2787.

<u>Stability (collection to initiation of testing):</u> Cultured Amniocytes or Cultured CVS: Room temperature: 48 hours; Refrigerated: Unacceptable; Frozen: Unacceptable

Maternal Whole Blood Specimen: Room Temperature: 7 days; Refrigerated: 1 month; Frozen: Unacceptable

RNP



TD PAN FE

0051508 Thanatophoric Dysplasia, Types 1 and 2 (*FGFR3*) 13 Mutations, Fetal

1: Collect: Cultured Amniocytes, Cultured CVS, or Amniotic fluid (direct).
Maternal Whole Blood Specimen: Lavender (EDTA), pink (K ₂ EDTA), or yellow (ACD Solution A or B).
Specimen Preparation: Cultured Amniocytes or Cultured CVS: Transfer cultured amniocytes or cultured CVS to two T-25 flasks at
80% confluence. (Min: one T-25 flask at 80% confluence). Backup cultures must be retained at the client's institution until testing is
complete. If the client is unable to culture amniocytes or CVS, this can be arranged by contacting ARUP Client Services at
(800) 522-2787. Please contact an ARUP genetic counselor at (800) 242-2787 ext. 2141 prior to test submission.
Amniotic Fluid (direct): 10 milliliters
Maternal Whole Blood Specimen: Transport 2 mL whole blood (Min: 1mL).
Storage/Transport Temperature: Cultured Amniocytes or Cultured CVS: CRITICAL ROOM TEMPERATURE. Must be
received within 48 hours of collection due to viability of cells.
Amniotic fluid (direct): Ship room temperature.
Maternal Whole Blood Specimen: Room temperature.
<u>Remarks:</u> Please contact an ARUP genetic counselor at (800) 242-2787 ext. 2141 prior to sample submission Patient History Form is
available on the ARUP Web site or by contacting ARUP Client Services at (800) 522-2787.
Stability (collection to initiation of testing): Cultured Amniocytes or Cultured CVS: Room temperature: 48 hours; Refrigerated:
Unacceptable; Frozen: Unacceptable
Amniotic Fluid (direct): Room temperature: 48 hours; Refrigerated: 72 hours; Frozen: Unacceptable
Maternal Whole Blood Specimen: Room temperature: 7 days; Refrigerated: 1 month; Frozen: Unacceptable
Tin Total Quantitative, Serum or Plasma TIN SP
Tin Total Quantitative, Serum or Plasma TIN SP
 <u>Collect:</u> Royal Blue (K₂ EDTA), Royal Blue (Na₂ EDTA), or Royal Blue (No Additive). <u>Specimen Preparation</u>: Separate from cells ASAP or within 2 hours of collection. Transfer 1 mL serum or plasma to an Acid Washed Transfer Vial (ARUP supply #54350) available online through eSupply using ARUP Connect[™] or contact ARUP Client Services at (800) 522-2787. (Min: 0.4 mL) Test is not performed at ARUP; separate specimens must be submitted when multiple tests are ordered. Storage/Transport Temperature: Refrigerated. Also acceptable: Room temperature or frozen. <u>Unacceptable Conditions</u>: Separator tubes. Stability (collection to initiation of testing): Ambient: 28 days; Refrigerated: 28 days; Frozen: 28 days
83789
von Willebrand Disease, Platelet Type (GP1BA) 3 MutationsGP1BA SEQ
Polymerase Chain Reaction/Sequencing
1: <u>Collect:</u> Lavender (EDTA), pink (K ₂ EDTA) or yellow (ACD Solution A or B).

Interpretive Data: By report

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Counseling and informed consent are recommended for genetic testing. Consent forms are available online.

Stability (collection to initiation of testing): Ambient: 7 days; Refrigerated: 1 month