

## **TELEFAX**

DATE:

TO:

FAX:

**FROM:** Toxoplasma Serology Laboratory

RE: SPECIMEN REQUIREMENTS AND TESTING INFORMATION (effective 1/15/16)

THIS TRANSMISSION CONSISTS OF <u>16</u> PAGES INCLUDING THIS COVER PAGE. IF THERE ARE ANY DISCREPANCIES, PLEASE CONTACT US AT (650) 853-4828. FAX (650) 614-3292.

#### **Requisition forms:**

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**Testing in Pregnant Women** 

Testing in Newborns and Infants (1 year of age or younger)

Testing in Non-Pregnant Adults and Older Children (more than 1 year of age)

**Testing in Immunocompromised Patients** 

**Billing Information** Page 6 Fee Schedule (summary) Page 7 **Test Information** Page 8 - 10 **Testing Schedule** Page 11 **PCR Instructions** Page 12 **PCR Specimen Requirements** Page 13 **Isolation Instructions** Page 14 **AC/HS Interpretation Criteria** Page 15 **Credit Card Form** Page 16

**Contact Information:** 

Toxoplasma Serology Laboratory

Phone #: (650) 853-4828

PAMF Ames Building

795 El Camino Real

Palo Alto, CA 94301

Phone #: (650) 853-4828

Fax #: (650) 614-3292

Email: toxolab@pamf.org

- Our specimen requirement for serologic testing is 3 ml of serum from a serum-separator tube or a red-top tube (minimum 0.5 ml; may be QNS for repeat testing). Please centrifuge the specimen, and if possible, send serum only. Grossly hemolyzed, icteric, lipemic, and bacterially contaminated specimens cannot be tested. Serum specimens can be sent at ambient temperature.
- THE PATIENT'S NAME AND COLLECTION DATE <u>MUST</u> APPEAR ON SPECIMEN LABEL. Unlabelled specimens will not be tested.

Contents of packet and additional information are available at:

WWW.PAMF.ORG/SEROLOGY



# Testing in Pregnant Women

Patient Seat Name: Specimen type: Collection date: Physicians Address: Physicians Addr	Patient Information: Patient name and collection date must also appear	r on spec	imen label.				
Physicians Aldress:							
Pregnant: Gestational age when specimen collected fluxed by provided	Patient ID#:	:	Specimen type:		_ Collection date	:	
History (important for proper interpretation of results)  Pregnant: Gestational age when specimen collected (must be provided)					Phone:		
Pregnant: Gesthinnel age when specimen collected (must be provided)	Physician's Address:				Fax:		
Immunocompromised	History (important for	proper	interpretation of re	sults)			
Colling   Coll	Pregnant: Gestational age when specimen collected (must be provided)		• •				
Curlibration (nodes)	·	- 1	Risk Factor(s) (or exposi	ure) □ Ingestion		ooked meat	
Piesse include a copy of biopsy report if performed   Peripheral retinal disease   Piesse include a copy of the report if available   Pos.   Piesse include a copy of the report if available   Pos.   Piesse include a copy of the report if available   Pos.   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Piesse include a copy of the report if available   Pi			□Other		uratory InG: 🗖	Dos DNog	
Eye findings		,	·		lgM: □	Pos. □Neg	
Recommended Tests  For patients reported to have positive IgM results by another laboratory or suspected to have acute toxoplasmosis  Pregnancy Panel (16 weeks gestation or cartiler):    Got Die test), IgM ELISA, Widthy   S445   GReflex to other tests in the Toxoplasma Panel as indicated * 3395   Green Pregnancy Panel (more than 16 weeks gestation):   IgG (Diye test), IgM ELISA, Audithy   S445   GReflex to other tests in the Toxoplasma Panel as indicated * 3395   Pregnancy Panel (more than 16 weeks gestation):   IgG (Diye test), IgM ELISA, Audithy   S445   GReflex to Avidity, and/or other tests in the Toxoplasma Panel as indicated * 3393   Panel as indicated * 3393     IgG (Diye test), IgM ELISA, Audithy and/or other tests in the Toxoplasma Panel as indicated * 3393     Individual tests   Green Panel as indicated * 3393   Panel as indicated * 3493     Individual tests   Green Panel Panel as indicated * 3495   Panel as indicated * 3495     Individual tests   Green Panel	-						
For patients reported to have gositive (gM results by another laboratory or suspected to have acute toxoplasmosis  Pregnancy Panel (16 weeks gestation or earlier):    Gilge (Dye test), IgM ELISA, Avidity   S445   Reliex to other tests in the Toxoplasma Panel as indicated * 3395   Reliex to other tests in the Toxoplasma Panel as indicated * 3457   Reliex to Avidity, and/or other tests in the Toxoplasma Panel as indicated * 3881   Reliex to Avidity, and/or other tests in the Toxoplasma Panel as indicated * 3883   Rest to consider according to history and clinical manifestations:    GeeP CR specimen requirements   S144   Gilge (Dye test)   Gilge (Gilge (Dye test)   Gilge (Gilge (Gilg	□Bilateral □Unilateral □Macular involvement □Peripheral retinal dis	sease	►Please include a cop	y of the report i	f available		
Pregnancy new Suspected to have acute foxoplasmosis   Ito have a negative loth test result by another laboratory	Recon	nmende	d Tests				
Individual tests   Secure							
Reflex to other tests in the Toxoplasma Panel as indicated * \$395   Panel as indicated * \$551     Pregnancy Panel (more than 16 weeks gestation):	DI O (D. I. I) LAMELICA A LIII		□ IgG (Dye test), IgM E	LISA	in the Tayonlasr	ma	\$289
Pregnancy Panel (more than 16 weeks gestation):  Uligic (Dye test), IgM ELISA, AC/HS  Reflex to Avdidly, and/or other tests in the Toxoplasma Panel as indicated * \$383  Test to consider according to history and clinical manifestations:  (see PCR specimen requirements)  Uligic (Dye Test)  Uligic (D	Doday to athematicate in the Toyonkama Donal or indicated *				iii ine Toxopiasi	IId	\$551
Reflex to Avidity, and/or other tests in the Toxoplasma Panel as indicated * \$383   Test to consider according to history and clinical manifestations: (see PCR specimen requirements)   \$398	Pregnancy Panel (more than 16 weeks gestation):	Ψ373					
Panel as indicated ** Test to consider according to history and clinical manifestations:  (see PCR specimen requirements)    PCR in amniotic fluid (18 weeks or later in gestation)		\$457					
Test to consider according to history and clinical manifestations:  (see PCR specimen requirements)  Individual tests  I		\$383					
Other Test Options		φ303					
Individual tests   Individual te		¢200					
Individual tests    gG (Dye Test)			Ontions				
Separation   Se		, 103t C	•				
□IgA ELISA □IgA ELISA, IgA ELISA, IgA ELISA, IgA ELISA, IgA ELISA, IgA ELISA □IgA ELISA		\$1 <i>44</i>					\$684
AC/HS			(IgG (Dye test), IgM E	LISA, IgA ELISA	A, IgE ELISA, AC	HS)	
Avidity; IgG (Dye test) and IgM ELISA will also be performed \$445     PCR (see PCR specimen requirements)     Solid tissues (specimen type)     Avidity; IgG (Dye test) and IgM ELISA will also be performed \$445     PCR (see PCR specimen requirements)     Solid tissues (specimen type)     Say8     Isolation of <i>T. gondii</i> (specimen type)     Say8     Isolation of <i>T. gondii</i> (specimen type)     Say8     Isolation of <i>T. gondii</i> (specimen type)     Say8     Client's Billing address (MUST be included. We cannot bill the patient or insurance.)     Results address     Results address     Attn:							
□PCR (see PCR specimen requirements) □Solid tissues (specimen type) □Amniotic fluid, whole blood, other body fluids (specimen type) □Isolation of <i>T. gondii</i> (specimen type) □Solid tissues (specimen type) □Solid tiss							
Amniotic fluid, whole blood, other body fluids (specimen type)\$398     Isolation of <i>T. gondii</i> (specimen type)\$527    *Our TSL physicians will review results and select appropriate test(s) in the Toxoplasma Panel (IgG (Dye Test): IgM ELISA, IgA ELISA and IgE ELISA; AC/HS).  Client's Billing address ( <i>MUST be included. We cannot bill the patient or insurance.</i> )   Results address    Attn:  PO# (if required for payment):		ΨΗΟ					
Solation of <i>T. gondii</i> (specimen type)   \$527	☐ Ampietic fluid, whole blood, other body fluids (specimen type)						
*Our TSL physicians will review results and select appropriate test(s) in the Toxoplasma Panel (IgG (Dye Test); IgM ELISA, IgA ELISA and IgE ELISA; AC/HS).  Client's Billing address (MUST be included. We cannot bill the patient or insurance.)  Results address  Attn:  PO# (if required for payment):  Phone:  Fax:  Phone:  E-mail:  Send to: Toxoplasma Serology Laboratory, PAMF Ames Building, 795 El Camino Real, Palo Alto, CA 94301  Tel: (650) 853-4828 Fax: (650) 614-3292 Email: toxolab@pamf.org Web site: www.pamf.org/serology  For laboratory use only:  Customer number:  Doctor number:  Doctor number:  Accession number:  Other:  Normal Hemolyzed Icteric Icteric  Lipemic  Other:	□ Isolation of <i>T. gondii</i> (specimen type)						
Client's Billing address (MUST be included. We cannot bill the patient or insurance.)  Attn:  PO# (if required for payment):  Phone:  E-mail:  Send to: Toxoplasma Serology Laboratory, PAMF Ames Building, 795 El Camino Real, Palo Alto, CA 94301  Tel: (650) 853-4828 Fax: (650) 614-3292 Email: toxolab@pamf.org Web site: www.pamf.org/serology  For laboratory use only:  Customer number:  Doctor number:  Doctor number:  Accession number:  Other:  Other:	*Our TSL physicians will review results and select appropriate test(s) in t		sma Panel (IgG (Dye Test); I	gM ELISA, IgA ELI	ISA and IgE ELISA	; AC/HS).	
PO# (if required for payment):  Phone: Fax: Phone: Fax:  E-mail: Email:  Send to: Toxoplasma Serology Laboratory, PAMF Ames Building, 795 El Camino Real, Palo Alto, CA 94301 Tel: (650) 853-4828 Fax: (650) 614-3292 Email: toxolab@pamf.org Web site: www.pamf.org/serology  For laboratory use only: Specimen condition: Doctor number: Normal Hemolyzed Icteric Lipemic Accession number: Other:				<u> </u>	- J	·	
PO# (if required for payment):  Phone: Fax: Phone: Fax:  E-mail: Email:  Send to: Toxoplasma Serology Laboratory, PAMF Ames Building, 795 El Camino Real, Palo Alto, CA 94301 Tel: (650) 853-4828 Fax: (650) 614-3292 Email: toxolab@pamf.org Web site: www.pamf.org/serology  For laboratory use only: Specimen condition: Doctor number: Normal Hemolyzed Icteric Lipemic Accession number: Other:							
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Phone: Fax: Phone: Fax:  E-mail: Email:  Send to: Toxoplasma Serology Laboratory, PAMF Ames Building, 795 El Camino Real, Palo Alto, CA 94301 Tel: (650) 853-4828 Fax: (650) 614-3292 Email: toxolab@pamf.org Web site: www.pamf.org/serology  For laboratory use only: Specimen condition: Doctor number: Specimen condition: Doctor number: Normal Hemolyzed Icteric Lipemic Other:	DO# /if required for nayment)		Aui.				
E-mail:  Send to: Toxoplasma Serology Laboratory, PAMF Ames Building, 795 El Camino Real, Palo Alto, CA 94301 Tel: (650) 853-4828 Fax: (650) 614-3292 Email: toxolab@pamf.org Web site: www.pamf.org/serology  For laboratory use only:  Customer number: Doctor number: Doctor number: Other: Other:			Phone:		Fax:		
Tel: (650) 853-4828 Fax: (650) 614-3292 Email: toxolab@pamf.org Web site: www.pamf.org/serology  For laboratory use only:  Customer number: Specimen condition: Doctor number: Normal Hemolyzed Icteric Lipemic Accession number: Other:	E-mail:		Email:		<u> </u>		
Customer number: Specimen condition:  Doctor number: Normal Hemolyzed Icteric Lipemic  Accession number: Other:							
Doctor number: □ Normal □ Hemolyzed □ Icteric □ Lipemic  Accession number: Other:	For laboratory use only:  Customer number:		Specimen condition				
,	Doctor number:		_ □Normal □ I			□Lipemic	
	Accession number:		Other:				



# Testing in Newborns and Infants (1 year of age or younger)

Patient Information: Patient na					
			Birth		
			_Specimen type:		
Physician's Address:				Fax:	
Hist	ory in Newborns and In	fants (importa	nt for proper interpretation o	of results)	
Eye findings		Normal	Hydrocephaly (ventriculomegaly) □	N □Y □Ultrasound	☐CT scan
Neurological findings Brain calcifications □N □Y	□Ultrasound □CT Scan	Normal	Cerebrospinal fluid findings Cell could Glucose Prot	unt ein	□ Normal
Transfusion history (dates and type	pes)		Other Please specify		
Maternal Serun	n (important for proper	interpretation	of results in all infants 1 yea	r of age or younge	er)
Mother's name		Mother's date of I	pirth Mother's s	serum collection date	
☐ Previously tested at the Toxop☐ IgG (Dye test), IgM ELISA, AC		\$457	□ IgG (Dye test), IgM ELISA □ Reflex to Avidity and/or to other test	sts in the Toxonlasma	\$289
□ Reflex to Avidity and/or to o			R Panel as indicated *	oto in the Toxopidoma	\$551
Panel as indicated *	'	\$383			
		Recommend	ed Tests		
For newborns and infants les	ss than 6 months of age		For infants 6 months to 1 ye	ar of age	
□Toxoplasma Infant Panel (IgG (	Dye test), IgM ISAGA, IgA ELISA	\$438	□IgG (Dye test), IgM ELISA		\$289
Tosts to consider according to his	tory and clinical manifestations		☐ Reflex to Avidity and/or to other to	ests in the Toxoplasma	\$551
Tests to consider according to his □PCR (see PCR specimen requirements)			Panel as indicated *		\$331
□Solid tissues (specimen type)	)	\$430			
■Whole blood, other body fluid	Is (specimen type)	\$398			
Othe	r Test Options		Other 1	Test Options	
Individual tests			Individual tests		
□ IgG (Dye Test)		\$144 \$153	□IgG (Dye test)		\$144
□IgM ISAGA □IgA ELISA		\$152 \$149	□IgM ELISA □IgA ELISA		\$152 \$149
□PCR (see PCR specimen requir	rements)	·	□AC/HS		\$168
□ Solid tissues (specimen type	e)ds (specimen type)ds	\$430 \$398	<ul><li>□Avidity; IgG (Dye test) and IgM E</li><li>□PCR (see PCR specimen require</li></ul>	LISA will also be performe	ed \$445
□ Isolation of <i>T. gondii</i> (specimen		\$396 \$527	Solid tissues (specimen type)		\$430
	71 /		■Whole blood, other body fluids	(specimen type)	\$398
			☐ Isolation of <i>T. gondii</i> from (specin	nen type)	\$527
			Panels		4.04
			□Toxoplasma Panel (IgG (Dye test), IgM ELISA, IgA I	ELISA, IgE ELISA, AC/HS	\$684
*Our TSL physicians w	vill review results and select appropria	ite test(s) in the Toxopl	asma Panel (IgG (Dye Test); IgM ELISA, IgA		<u> </u>
Client's Billing address (MUST bo	e included. We cannot bill the patie	nt or insurance.)	Results address		
Attn:			Attn:		
PO# (if required for payment):					
Phone:	Fax:		Phone:	Fax:	
E-mail:			Email:		
			s Building, 795 El Camino Real, Palo A ab@pamf.org Web site: www.pamf.org		
For laboratory use only:				<u>graci didy y</u>	
Cus	tomer number:			Diotesis	II in a mala
	tor number:ession number:				lLipemic
					n0648 (January 2016



# Testing in Non-Pregnant Adults and Older Children (more than 1 year of age)

Patient Information: Patient name and collection date mu	st also appear on s <sub>l</sub>	pecimen label.		
Patient's Last Name:	, First Name:	E	Birth date:	Gender:
Patient ID#:		Specimen type:	Collection date:	
Physician's Name:			Phone:	
Physician's Address:			Fax:	
History (imp	ortant for prope	er interpretation of results)		
<i>Immunocompromised</i> □N □Y □HIV □AIDS CD	4 count	Myocarditis and/or Polymyositis		
☐Other (please specify)		Creatine Kinase (CK)	,	
Lymphadenopathy □N □Y Date of onset		Encephalitis  N Y Date of o		
Location of node(s)		Other Please specify		
▶Please include a copy of biopsy report if performed		Other	riu-likė symptoms	
Eye disease		Risk Factor(s) (or exposure) □ Ingesti	on of raw or undercooked r	meat
Eye findings		□Cat feces □Gardening □No	ne <b>O</b> Other	
□Bilateral □Unilateral □Macular involvement □Perip	oheral retinal disease	Toxoplasma test results from other la	aboratory JaC - Dos -	Moa
Hepatitis □ N □Y Date of onset		TOXOPIASINA LEST TESUITS ITOM OTHER TA	IgM: □Pos. □	-
Liver Function Tests		☐Other (please specify)	· ·	
		►Please include a copy of the repo		
	Recommen	ded Tests		
For patients reported to have positive IqM results by		For initial Toxoplasma serolo	ngy screening	
laboratory or suspected to have acute toxoplasmosis	<u> </u>			
□IgG (Dye test), IgM ELISA, Avidity	\$445	□ IgG (Dye test), IgM ELISA	tooks in the Tananiana	\$289
☐ Reflex to other tests in the Toxoplasma Panel as indicated OR	d* \$395	☐ Reflex to Avidity, and/or other to Panel as indicated *	iesis in the Toxopiasma	\$551
□IgG (Dye test), IgM ELISA	\$289	r arici as mulcateu		\$33 I
Reflex to Avidity, and/or other tests in the Toxoplasma	\$209			
Panel as indicated *	\$551			
	Other Tes	t Options		
Individual tests	<b>#144</b>	Panels		¢/04
□IgG (Dye Test) □IgM ELISA	\$144 \$152	☐Toxoplasma Panel (IgG (Dye test), IgM ELISA, IgA E	LISA. IaE FLISA. AC/HS)	\$684
□IgA ELISA	\$149	(igo (b)o tosty, igm Ezilot (, ig. t E	Lion, ige Leion, monito,	
□AC/HS	\$168			
□ Avidity; IgG (Dye test) and IgM ELISA will also be performed □ PCR (see PCR specimen requirements)	\$445			
□Solid tissues (specimen type)	\$430			
□Whole blood, other body fluids (specimen type)				
□ Isolation of <i>T. gondii</i> (specimen type)	\$527			
*Our TSL physicians will review results and select appro		oplasma Panel (IgG (Dye Test); IgM ELISA, IgA Results address	A ELISA and IgE ELISA; AC/HS	S).
Short o Dilling address (meet be included. The edilliot bill the	outlett of modration,	Nosulis dudi oss		
		Attn:		
Attn:				
PO# (if required for payment):				
Phone: Fax:		Phone:	Fax:	
E-mail:  Send to: Toxonlasma Serology L	aboratory PAMF Am	Email: nes Building, 795 El Camino Real, Palo	Alto CA 94301	
Tel: (650) 853-4828 Fax: (650)		olab@pamf.org Web site: www.pamf.or		
For laboratory use only: Customer number:		Specimen condition:		
Doctor number:			$\Box$ Icteric $\Box$ L	ipemic
Accession number:		Other:	EODA	 n0649 (January 2016
			FURM	110049 (January 2016



# Testing in Immunocompromised Patients

Patient's Last Name:,	First Name:		Birth date:		Gender:
Patient ID#:					
Physician's Name:					
Physician's Address:				_ Fax:	
		r interpretation of re			
Category of Immunosuppression  □HIV □AIDS □CD4 count		Symptoms □None □I □Other_		symptoms	
Transplant □Bone Marrow □HSCT □Pre-Transplant □Post Transplant □Donor □Recipient		Hepatitis	☐Macular involve	ement □Peri	oheral retinal disease
Solid Organ Transplant  □ Heart □ Lung □ Kidney □ Liver □ Pancreas □ Bowel		Encephalitis □N □Y	Date of onset		
Immunosuppressive Drugs  □Corticosteroids □Anti-TNF Drugs □Other (please specify)		Pneumonia	yositis 💷 N 🗖	Y Date of on	set
Cancer Please specify Absolute Neutrophil Count  □ Pre-Chemotherapy □ On Chemotherapy □ Post Chemotherapy		Toxoplasma test results f  □Other (please specify)  ▶ Please include a cop	rom other labora	tory IgG: □Po IgM: □Po	
F	Recommend		y or ano roport in	avanabio	
□ IgG (Dye test), IgM ELISA, Avidity □ Reflex to other tests in the Toxoplasma Panel as indicated*	\$445 \$395	PCR in body fluids or tiss (see PCR specimen require  Solid tissues (specime  Whole blood, bronchoo other body fluids (spe	ments) n type) alveolar lavage flui		\$430
	Other Test	Options			
Individual tests  □IgG (Dye Test) □IgM ELISA □IgA ELISA □AC/HS □Avidity: IgG (Dye test) and IgM ELISA will also be performed □Isolation of <i>T. gondii</i> (specimen type)	\$144 \$152 \$149 \$168 \$445 \$527	Panel  ☐Toxoplasma Panel (IgG (Dye test), IgM ELI	SA, IgA ELISA, Igi	E ELISA, AC/H	\$68 <sup>2</sup> S)
*Our TSL physicians will review results and select appropriate t			ıM ELISA, IgA ELIS <i>i</i>	A and IgE ELISA	AC/HS).
Client's Billing address (MUST be included. We cannot bill the patient of	or insurance.)	Results address			
Attn:		Attn:			
PO# (if required for payment):		Dhana	1	Fave	
Phone: Fax: E-mail:		Phone: Email:		Fax:	
Send to: Toxoplasma Serology Laborat Tel: (650) 853-4828 Fax: (650) 614-3		es Building, 795 El Camino			
For laboratory use only:  Customer number:  Doctor number:  Accession number:		Specimen condition	:   Hemolyzed	□lcteric	□Lipemic



## **Billing Information**

#### **GENERAL**

Our laboratory will process your patient's specimen only if proper billing information is provided on billing portion of the requisition. Testing will not be performed until billing information is provided.

We cannot bill insurance or the patient directly. We can only bill the hospital, doctor or laboratory where specimen originated. Another option is for the patient to include a personal check, money order or credit card information (Visa or Mastercard) along with the specimen. These latter patients will receive a paid receipt after testing is completed. Please be aware, if your patient's payment does not clear or if there is a remaining balance, the ordering physician is responsible for all charges.

#### The Toxoplasma Serology Laboratory is a not-for-profit laboratory.

#### **NEW YORK PHYSICIANS**

New York State law prohibits us from billing New York State physicians directly. Therefore, all patients whose specimens are sent to us by a private physician <u>must</u> include a check, money order or credit card information (Visa or Mastercard). Specimens will only be held for two weeks if proper payment is not provided.

#### **PAYMENT TERMS**

Payment terms are net **30 days**. Past due accounts may be subject to collections by an agency of the Palo Alto Medical Foundation. **Please make checks payable to the Toxoplasma Serology Laboratory at the Palo Alto Medical Foundation.** 

In order to ensure that your account is properly credited, the invoice number must be included and the address for remittance must include all of the following information:

Toxoplasma Serology Laboratory 795 El Camino Real, Ames Building Palo Alto, CA 94301

#### **DISCOUNT PRICING POLICY**

Panels (see Test Information or Fee Schedule):

- IgG/IgM Toxo Panel
- Toxoplasma Pregnancy Panel (16 weeks gestation or earlier)
- Toxoplasma Pregnancy Panel (more than 16 weeks gestation)
- Toxoplasma Infant Panel (less than 6 months of age)
- Toxoplasma Panel (6 months of age or older)

All testing performed that add up to any Panel will be charged the discounted price while a Patient's case is still open. For urgent cases, we will attempt to contact client for authorization for further confirmatory testing (recommended by consulting physicians) twice via fax. If we do not receive authorization after two faxes, the results will be reported as final and the patient's case will be closed. Once a final report has been generated, the client will be charged the full amount for each additional test(s).

#### **INSURANCE REIMBURSEMENT**

Our laboratory is not a contracted provider for any health insurance carriers. We cannot directly bill any insurance company for our charges. We provide the following information to assist in submitting charges for reimbursement from insurance carriers:

CPT codes	CPT codes are listed in our invoice			
ICD-10 codes	Toxoplasmosis (acquired), unspecified— <b>B58.9</b>			
	- With pneumonia— <b>B58.3</b>			
	- Congenital, active—P37.1			
*** We can provide an	- With other organ involvement - <b>B58.89</b>			
extended code list for	Maternal			
your reference,	- Protozoal diseases complicating pregnancy, first trimester – <b>O98.611</b>			
however, selecting an	- Protozoal diseases complicating pregnancy, second trimester – <b>098.612</b>			
accurate code is the	- Protozoal diseases complicating pregnancy, third trimester – <b>098.613</b>			
provider's	- Protozoal diseases complicating pregnancy, unspecified trimester – <b>098.619</b>			
responsibility.***	- Protozoal diseases complicating childbirth - <b>O98.62</b>			
	- Protozoal diseases complicating the puerperium – <b>098.63</b>			
	Newborn suspected to be affected by other maternal infectious and parasitic diseases (code to be			
	used on the newborn record only – <b>P00.2</b>			
Tax ID number	94-1156581			

Billing Information page 6 of 16



#### Fee Schedule 2016

(Effective 1/15/16)

<u>Individual tests</u> <u>Prices / CPT codes</u>

**IgG (Dye Test)** \$144 / 86777

**IgM ELISA** (6 months of age or older) \$152 / 86778

**IgM ISAGA** (less than 6 months of age) \$152 / 86778

**IgA ELISA** \$149 / 86777-59

**AC/HS** \$168/ 86406 (2 units)

IgE ELISA (Offered only as part of a panel and not as a single test) \$147/ 86777-59

Avidity (Offered only with IgG (Dye test) and IgM ELISA) \$445 / 86777-59

See: Toxoplasma Pregnancy Panel (16 weeks gestation or

earlier)

PCR (amniotic fluid, cerebrospinal fluid, vitreous fluid, \$398 / 87798

urine, whole blood, other body fluids)

PCR (solid tissues) \$430 / 87798

**Isolation** \$527 / 87003

**Panels** 

IgG/IgM Toxo Panel \$289

Includes: IgG (Dye Test), IgM ELISA 86777, 86778

**Toxoplasma Pregnancy Panel** (16 weeks gestation or earlier) \$445

Includes: IgG (Dye Test), IgM ELISA, Avidity 86777, 86778, 86777-59

Toxoplasma Pregnancy Panel (more than 16 weeks gestation) \$457

Includes: IgG (Dye Test), IgM ELISA, AC/HS 86777, 86778, 86406 (2 units)

Toxoplasma Infant Panel (less than 6 months of age) \$438

Includes: IgG (Dye Test), IgM ISAGA, IgA ELISA 86777, 86778, 86777-59

Toxoplasma Panel (6 months of age or older) \$684

Includes: IgG (Dye Test), IgM ELISA, IgA ELISA, IgE ELISA, AC/HS 86777, 86778, 86777-59, 86777-59,

86406 (2 units)

Note: If a previously tested specimen is indicated for <u>parallel testing</u> with a new sample, the fee for the old sample will be \$55.00 per test. The new sample will be charged the regular fee.



#### **Test Information**

IgG (Dye Test)

Reference range: negative <1:16; positive ≥1:16

Specimen: serum, CSF

Volume: 0.5 ml

Transport temperature: 2 – 8° C. (preferred); ambient or frozen (acceptable)

CPT code: 86777 Fee: \$144

Method Reference: Sabin AB, Feldman HA. Dyes as microchemical indicators of a new immunity phenomenon affecting a

protozoan parasite (Toxoplasma). Science 108:660-663, 1948.

**IgM ELISA** (for patients 6 months of age or older)

Reference range: negative 0.0-1.6, equivocal 1.7-1.9, positive ≥ 2.0 (serum); negative 0.0-0.3, positive ≥ 0.4 (CSF)

Specimen: serum, CSF Volume: 0.5 ml

Transport temperature: 2 – 8° C. (preferred); ambient or frozen (acceptable)

CPT code: 86778 Fee: \$152

Method Reference: Naot Y, Remington J. An enzyme-linked immunosorbent assay for detection of IgM antibodies to

Toxoplasma gondii: use for diagnosis of acute acquired toxoplasmosis. J Infect Dis 142:757-766,1980

**IgM ISAGA** (for patients less than 6 months of age)

Reference range: reported as negative or positive

Specimen: serum Volume: 0.5 ml

Transport temperature:  $2-8^{\circ}$  C. (preferred); ambient or frozen (acceptable)

CPT code: 86778 Fee: \$152

Method Reference: Desmonts G, Naot Y, Remington JS. Immunoglobulin M immunosorbent agglutination assay for

diagnosis of acute congenital and acquired toxoplasma infections. J Clin Microbiol 14:486-491, 1981

IgA ELISA

Reference range: negative 0.0-0.9, positive ≥ 1.0 (infants);

negative 0.0-1.4,equivocal 1.5-2.0, positive ≥ 2.1 (adults)

Specimen: serum Volume: 0.5 ml

Transport temperature: 2 – 8° C. (preferred); ambient or frozen (acceptable)

CPT code: 86777-59 Fee: \$149

Method Reference: Stepick-Biek P, Thulliez P, Araujo F, Remington JS. IgA antibodies for diagnosis of acute congenital

and acquired toxoplasmosis. J Infect Dis 162:270-273, 1990

AC/HS (Differential Agglutination)

Reference range: reported as non-acute pattern, equivocal pattern, acute pattern or non-reactive pattern

(refer to table, page 14)

Specimen: serum Volume: 0.5 ml

Transport temperature: 2 – 8° C. (preferred); ambient or frozen (acceptable)

CPT code: 86406 (2 units)

Fee: \$168

Method Reference: Danneman B, Vaughn W, Thulliez P, Remington JS. Differential agglutination test for diagnosis of

recently acquired infection with Toxoplasma gondii. J Clin Microbiol 28:1928-1933, 1990



#### **Test Information**

**IgE ELISA** (offered only as part of a panel and not as a single test)

Reference range: reported as negative, equivocal or positive

Specimen: serum Volume: 0.5 ml

Transport temperature: 2 – 8° C. (preferred); ambient or frozen (acceptable)

CPT code: 86777-59 Fee: \$147

Method Reference: Wong S, Hadju M, Ramirez R, Thulliez P, McLeod R, Remington JS. Role of specific immunoglobulin E

in diagnosis of acute toxoplasma infection and toxoplasmosis. J Clin Microbiol 31:2952-2959, 1993

**Avidity** (IgG (Dye test) and IgM ELISA will also be performed)

Reference range: high avidity excludes infection within the previous 4 months

Specimen: serum Volume: 0.5 ml

Transport temperature: 2 – 8° C. (preferred); ambient or frozen (acceptable)

CPT code: 86777-59

Fee: \$445 (price includes IgG (Dye test) and IgM ELISA)

Method Reference: Pelloux, H. et al. Determination of anti-Toxoplasma gondii immunoglobulin G avidity: adaption to the

Vidas system (bioMérieux). Diagn Microbiol Infect Dis 32: 69-73, 1998

**PCR** 

Reference range: reported as "Toxoplasma gondii DNA detected," "Toxoplasma gondii DNA not detected," or indeterminate

Specimen: (refer to PCR Specimen Requirements table)

Volume: (refer to PCR Specimen Requirements table)

Transport temperature: (refer to PCR Specimen Requirements table)

CPT code: 87798

Fee: \$398 (body fluids) \$430 (solid tissues)

Method References: Grover C, Thulliez P, Remington J, Boothroyd J. Rapid prenatal diagnosis of congenital Toxoplasma

infection by using polymerase chain reaction and amniotic fluid. J Clin Microbiol 28:2297-2301, 1990.

Parmley S. Goebel F. Remington JS. Detection of Toxoplasma gondii in cerebro-spinal fluid from AIDS

patients by polymerase chain reaction. *J Clin Microbiol* 30:3000-3002, 1992

Isolation

Reference range: reported as negative or positive

Specimen: whole blood, amniotic fluid, placenta and other tissues

NOTE: Specimens must not be frozen or placed in formalin or other fixative. Inoculations are

recommended within 48 hours of specimen collection date. Results available in six weeks.

Volume: 3 ml (fluids); 1 g (solid tissues)

Transport temperature: 2 – 8° C.

CPT code: 87003 Fee: \$527

Method Reference: Remington JS, McLeod R and Desmonts G. Toxoplasmosis. In Infectious Diseases of the Fetus and

Newborn Infant, Fifth Edition. JS Remington, JO Klein, eds. W.B. Saunders Company, Philadelphia,

2001



#### **Test Information**

#### **PANELS**

#### IgG/IgM Toxo Panel:

IgG (Dye Test), IgM ELISA

Specimen: serum

Volume: 0.5 to 1.0 ml

*Transport temperature:*  $2-8^{\circ}$  C. (preferred); ambient or frozen (acceptable)

CPT code: 86777, 86778

Fee: \$289

#### **Toxoplasma Pregnancy Panel:** (16 weeks gestation or earlier)

• IgG (Dye Test), IgM ELISA, Avidity

Specimen: serum Volume: 2.0 ml

Transport temperature:  $2-8^{\circ}$  C. (preferred); ambient or frozen (acceptable)

CPT code: 86777, 86778, 86777-59

Fee: \$445

#### **Toxoplasma Pregnancy Panel:** (more than 16 weeks gestation)

• IgG (Dye Test), IgM ELISA, AC/HS

Specimen: serum Volume: 2.0 ml

*Transport temperature:* 2 – 8° C. (preferred); ambient or frozen (acceptable)

CPT code: 86777, 86778, 86406 (2 units)

Fee: \$457

#### Toxoplasma Infant Panel: (less than 6 months of age)

IgG (Dye Test), IgM ISAGA, IgA ELISA

Specimen: serum Volume: 1.0 ml

*Transport temperature:* 2 – 8° C. (preferred); ambient or frozen (acceptable)

CPT code: 86777, 86778, 86777-59

Fee: \$438

#### **Toxoplasma Panel:** (6 months of age or older)

IgG (Dye Test), IgM ELISA, IgA ELISA, IgE ELISA, AC/HS

Specimen: serum Volume: 2.0 ml

*Transport temperature:*  $2-8^{\circ}$  C. (preferred); ambient or frozen (acceptable)

CPT code: 86777, 86778, 86777-59, 86777-59, 86406 (2 units)

Fee: \$684



## **Testing Schedule**

#### **ROUTINE TEST SCHEDULE**

Serology tests:

IgG (Dye Test), IgM ELISA, IgM ISAGA, IgA ELISA, IgE ELISA, AC/HS. Avidity Specimens received by noon (Pacific Time) on Monday and Wednesday will be tested that day. Verbal results are available by 3 p.m. (Pacific Time) the following day.

Specimens received by noon (Pacific Time) on Thursday will be tested for IgG (Dye Test), IgM ELISA, and Avidity only that day. Verbal results are available by 3 p.m. (Pacific Time) the following day.

PCR: Specimens received by noon (Pacific Time) on Tuesday will have verbal results available Wednesday by 4 p.m. (Pacific Time). Specimens received by noon (Pacific Time) on Friday will have verbal results available

Monday by 4 p.m. (Pacific Time).

Serology/PCR Final reports will be available approximately 5 business days from the date the sample was received except on holidays. However, reports for samples with missing billing information or requiring history or test clarification

may take longer. Reports for results requiring

consultation will not be available until the reporting cycle

following consult completion.

To ensure the quality of results, repeat testing is sometimes required. This may delay reporting of results.

**Isolation:** Final results are available approximately six weeks from

the date received.

**HOLIDAY TEST SCHEDULES** For a current list of applicable holidays and test

schedule modifications, please see:

http://www.pamf.org/serology/schedule.html

To ensure specimen integrity, we recommend

specimens are not shipped for delivery on weekends or

holidays

**Business hours:** 8 a.m. – 4:00 p.m. Pacific Time, Monday – Friday.

Closed weekends and holidays.

Testing Schedule page 11 of 16



#### **PCR: Instructions**

#### **General Instructions**

Specimen Types and

See PCR Specimen Requirements

Requirements: Shipment:

Send specimens for PCR testing to this address:

Toxoplasma Serology Laboratory

**Attention: PCR** PAMF Ames Building 795 El Camino Real Palo Alto, CA 94301

Ship each sample for PCR testing in a separate sealed bag from other samples. All samples received for PCR testing will be prepared for

testing, and will not be suitable for return.

A serum specimen for serologic testing must accompany PCR test requests for any patient not recently tested in our laboratory in order for our medical consultant to interpret results. The minimum request for serologic testing must include IgG and IgM. There is an additional

charge for testing this serum.

**Amniotic Fluid** 

It is recommended that amniocentesis for toxoplasmosis PCR be performed at a minimum of 18 weeks gestation. A serum sample from the mother must accompany the amniotic fluid in order for our medical consultant to interpret results, unless she has been previously

tested in our laboratory, during the same pregnancy.

Specimen: DNA for our PCR procedure is obtained from pelleted amniotic fluid.

Recommended volume: 10 ml

Shipment: Ship amniotic fluid on wet ice or cold packs sufficient to maintain

temperature of  $2 - 8^{\circ}$  C. during shipment; frozen acceptable (include

enough dry ice to keep specimen frozen during shipment).

Cerebrospinal, vitreous, or aqueous fluid:

Specimen: A serum sample from the patient must accompany the fluid in order for

our medical consultant to interpret results, unless serum has been

previously tested in our laboratory in the recent past.

Recommended volume: 0.5 ml ocular fluid, 1.0 ml CSF

Shipment: Freeze sample immediately after collection. Ship sample on dry ice by

overnight courier. Include enough dry ice to keep specimen frozen

during shipment.

**PCR Instructions** page 12 of 16



#### **PCR Validated Specimens**

The following samples have been validated for testing in our laboratory:

- Amniotic fluid
- Whole blood

Solid tissues

- Cerebrospinal fluid (CSF)
- Urine

Serum

Ocular fluids

• Bronchoalveolar lavage (BAL)

#### **PCR Reports**

PCR results will be reported as follows:

- "Toxoplasma gondii DNA not detected."
- "Toxoplasma gondii DNA detected."

#### Preferred Conditions for Processing, Storing, and Shipping Specimens for PCR Testing<sup>1</sup>

SPECIMEN TYPE	Specimen Age	SHIPPING CONDITIONS	MINIMUM Volume <sup>1</sup>	RECOMMENDED VOLUME <sup>1</sup>
Amniotic fluid (collected at ≥18 weeks gestation)	Up to one month when stored refrigerated; indefinite when stored frozen	2 – 8° C on ice or cold packs preferred; frozen acceptable; overnight delivery	3 ml	10 ml
BAL	Up to one month when stored refrigerated; indefinite when stored frozen	2 – 8° C on ice or cold packs; frozen acceptable; overnight delivery	3ml	10 ml
CSF	Up to one month when stored refrigerated; indefinite when stored frozen	Frozen preferred; 2 – 8° C on ice or cold packs acceptable; overnight delivery	0.4 ml	1 ml
Ocular fluids (vitreous and aqueous)	Up to one month when stored refrigerated; indefinite when stored frozen	Frozen preferred; 2 – 8° C on ice or cold packs acceptable; overnight delivery	0.1 ml	0.5 ml
Serum	Up to one month when stored refrigerated; indefinite when stored frozen	Frozen preferred; 2 – 8° C on ice or cold packs acceptable; overnight delivery	1 ml	5 ml
Whole blood Bone marrow	Up to 2 days (DO NOT FREEZE)	EDTA or citrate tube; 20 – 25° C preferred; overnight delivery	1 ml	5 ml
Urine	Up to one week when stored refrigerated; indefinite when stored frozen	2 – 8° C on ice or cold packs preferred; frozen acceptable; overnight delivery	6 ml	10 ml
Solid tissues	Up to 24 hours when stored refrigerated; indefinite when stored frozen; NO preservatives	Frozen preferred; 2 – 8° C on ice or cold packs acceptable; overnight delivery	25 mg	50 mg

<sup>&</sup>lt;sup>1</sup> The Toxoplasma Serology Laboratory will test specimens that deviate from these conditions. However, sensitivity might be compromised. Please contact our laboratory at (650) 853-4828 for any questions about testing specimens that do not conform to these conditions.



#### **Isolation Instructions**

#### **General Instructions**

**Specimen Types and Requirements:** Whole blood (EDTA or Citrate preferred), amniotic

fluid, CSF and other body fluids, placenta and other

tissues

**Shipment:** Send specimens for Isolation testing to this address:

Toxoplasma Serology Laboratory

Attention: Isolation PAMF Ames Building 795 El Camino Real Palo Alto, CA 94301

Ship each sample for Isolation testing in a separate sealed bag from other samples. All samples received for Isolation testing will be prepared for testing, and will not be suitable for return. Note: Isolation is a costly and labor intensive procedure. Once started, it may not be cancelled.

**NOTE:** Specimens must <u>NOT</u> be frozen or placed in formalin or other fixative. Inoculation for isolation is recommended within **48 hours of specimen collection date.** Results available in six weeks.

Preferred Conditions for Processing, Storing, and Shipping Specimens for PCR Testing<sup>1</sup>

SAMPLE TYPE	Storage	SHIPPING CONDITIONS	MINIMUM Volume <sup>1</sup>	RECOMMENDED VOLUME <sup>1</sup>
Amniotic Fluid, CSF and other body fluids	Store sterilely, keep cool (NOT FROZEN) with ice bag or frozen cold packs.	2 – 8° C on ice or cold packs preferred; overnight delivery; <b>DO NOT FREEZE</b>	1 ml	3 ml
Whole Blood (EDTA, citrate, ACD tubes preferred; clot tubes (red top) accepted)	Keep cool (NOT FROZEN) with ice bag or frozen cold packs.	2 – 8° C on ice or cold packs preferred; overnight delivery; <b>DO NOT FREEZE</b>	1 ml	3 ml
Placenta	Store sterilely in sterile saline (NO FORMALIN OR OTHER PRESERVATIVE, DO NOT FREEZE). Penicillin (100 units per ml) and Streptomycin (100µgm/ml) or gentamicin (10- 40 mg/ml) should be added. Keep cool (NOT FROZEN) with ice bag or frozen cold packs.	2 – 8° C on ice or cold packs preferred; overnight delivery; DO NOT FREEZE	1g*	5g
Other Tissues	Store sterilely in sterile saline (NO FORMALIN OR OTHER PRESERVATIVE, DO NOT FREEZE). Keep cool (NOT FROZEN) with ice bag or frozen cold packs.	2 – 8° C on ice or cold packs preferred; overnight delivery; <b>DO NOT FREEZE</b>	1g*	5g

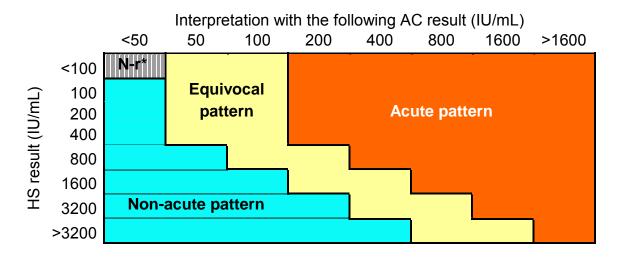
<sup>&</sup>lt;sup>1</sup> The Toxoplasma Serology Laboratory may test specimens that deviate from these conditions with client authorization. However, sensitivity might be compromised. Please contact our laboratory at (650) 853-4828 for any questions about testing specimens that do not conform to these conditions.

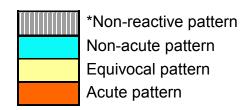
Isolation Instructions and Requirements – 3/24/17

<sup>\*</sup>Please note: lower amounts of some tissues are accepted due to accessibility and difficulty of collection



## **AC/HS Interpretation Criteria**







# Palo Alto Medical Foundation/Research Institute Toxoplasma SerologyLaboratory CREDIT CARD PAYMENT

## \*PAMF only accepts Visa or Mastercard\*

Patient Name:		,	Customer #:	
	Last Name	First Name		
Name of Card Holder:	Last Name	,	First Name	
Billing Address: of Card Holder		<u>Cont</u>	tact #: ()	<del>-</del>
	City	State	Zip Code	
Card Type: VISA	#			<u>Exp. Date:</u> /
		Card Number	Last 3 digits	behind card
MASTERCARD	# #		<u>CVV#:</u>	<u>Exp. Date:</u> / behind card
Amount of Payment: \$				NO
Invoice #:	,	,	,	,
Amount:				
Total Amount Paid: \$_		Initials of pers	on handling transaction Toxoplasma Serology L	Date of Transaction

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