TRAINING UPDATE

Lab Location:

SGAH and WAH Blood Bank Date Implemented:

3.28.2014

Department: Bloo

Due Date:

4.15.2014

DESCRIPTION OF PROCEDURE REVISION

Name of procedure:

Plasma Thawer Quality Control (ThermoGenesis MT204)

Description of change(s):

Updated form and procedure in response to CAP/AABB deficiency.

- Added both requirements for monthly QC to the form:
 - o Check water level and fill as needed
 - Check the power cord for splits or frays
- Added quarterly QC to the "Daily Temperature Quality Control" form.
 - o Form contains boxes to document thermometer serial number, thermometer temperature, plasma thawer temperature, difference, and interpretation
 - o Form also contains a spot to document that the plasma thawer water was changed and water conditioner was added.

The procedure was updated to reflect changes to the form.

Electronic Document Control System

Quest Diagnostics Nichols Institute Site: Washington Adventist Hospital

Title: Plasma Thawer Quality Control (ThermoGenesis MT204)

Non-Technical SOP

Prepared by Stephanie Codina Owner | Stephanie Codina

Titte

Plasma Thawer Quality Control (ThermoGenesis MT204)

Date: 3/30/2011 Date: 3/30/2011



Document No.: WAHBB84[1]
Title: PLASMA THAWER QUALITY CONTROL (THERMOGENESIS MT204)

Owner: LESLIE.X.BARRETT LESLIE BARRETT Status INWORKS

Next Review Date:

Effective Date: 25-Apr-2014

Document:WAH.BB84[1] Status:INWORKS,Effective:4/25/2014, Check Version Before Use

Local Issue Date

Local Effective Date:

Laboratory Approval
Print Name and Title
Refer to the electronic signature page for

Signature

Date

approval and approval dates.

Print Name	Signature
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SOP ID: WAH BB84 SOP version # 1

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Page 1 of 6

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Quest Diagnostics Nichols Institute Site: Washington Adventist Hospital

Title: Plasma Thawer Quality Control (ThermoGenesis MT204)

TABLE OF CONTENTS

REFERENCES
DEFINITIONS
PURPOSE

PURPOSE

Frozen plasma and cryoprecipitate products are thawed a temperatures between 30-37°C in an FDA-approved device. This procedure outlines the preventive maintenance and quality control that is performed on the ThermoGenesis MT204 plasma thawer.

This procedure applies to the ThermoGenesis MT204 plasma thawer.

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RESPONSIBILITY

All blood bank staff members must understand and follow this procedure when performing maintenance and quality control requirements for the plasma thawer.

DEFINITIONS N/A

PROCEDURE

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Daily Maintenance

-	Step
The temperature of the plasma thawer is read and recorded on the quality control form daily. The temperature must be between 30-37°C. If the plasma thawer is outside of the acceptable temperature range: A. Remove the plasma thawer from service. B. Notify the Biomedical Engineering department or a supervisor.	Action

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Page 2 of 6

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SOP ID. WAH BB84 SOP version # 1

Document.WAH.BB84[1] Status:INWORKS,Effective:4/25/2014, Check Version Before Use

Title: Plasma Thawer Quality Control (ThermoGenesis MT204)

Monthly Maintenance

Quest Diagnostics Nichols Institute Site: Washington Adventist Hospital

w	2	•	Step
Document completion of monthly maintenance on the quality control form.	Check the power cord for splits or frayed spots. Contact Biomedical Engineering to replace the cord if necessary.	Check the water level: A. Remove the round cover from the fill port at the right rear of the thawer by pulling it straight up. B. A clear horizontal rod is located inside the fill port. Verify that the water level reaches the bottom of the rod. Add additional tap water until the water level reaches the bottom of the rod, if indicated. C. Record all actions on the quality control form.	Action

Quarterly Maintenance

v. Verif	calibr iv. Press		ii. The d	i. On th	thawer.	b. If the reading	a. If the readin	between 30-37°C	the thawer and r	F. Record both the	fluid surrounds the pocket	E. Start a 5-minute	D. Insert the thermometer	C. Remove the but	 B. Document the se 	 A. Obtain a thermo 	Verify the temperature of the plasma thawer	
Verify that the thawer temperature on the digital display is	calibrated thermometer was 35.0°C, enter "350." Press the "Start" key to save the temperature setting	using the keypad. For example, if the reading of the	The display will riash "00.0." Enter the temperature of the calibrated thermometer reading	On the keypad, enter "200" and press the "Keset" button.		required. If the readings are greater than 1°C from each other, adjust the	 a. If the readings are within 1°C of each other, no further action is 	Ω	the thawer and record on the QC form. The operating range must be	Record both the thermometer reading and the digital temperature of	the pocket.	Start a 5-minute cycle and read the thermometer when the thawing	ometer.	Remove the button cap near the left-most thawing pocket	B. Document the serial number of the thermometer on the QC form.	A. Obtain a thermometer that has been verified at 37°C	of the plasma thawer.	Action
on the digital display is start over	C, enter "350." imperature setting.	the reading of the	ated thermometer reading	ess the "Reset" button.		each other, adjust the	her, no further action is		operating range must be	e digital temperature of		eter when the thawing		wing pocket.	eter on the QC form.	at 37°C.		

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Quest Diagnostics Nichols Institute Site: Washington Adventist Hospital

Title: Plasma Thawer Quality Control (ThermoGenesis MT204)

	72	E)	Step 2
 E. Refill the thawer with 8 gallons of fresh tap water. F. Add 5 mL of waterbed conditioning liquid. G. Remove the drain adapter. a. Press down on the metal tab of the drain fitting. b. Pull the drain hose from the fitting. H. Document the water change on the quality control form. 	suitable container. e. Press the metal tab of the drain fitting in and push the drain hose into the drain fitting. f. Drain both the reservoir and the product chamber. f. B. Fill the thawer with 8 gallons of tap water (up to the clear, horizontal rod). C. Run the thawer through 1 thaw cycle to flush all residuals from the system. D. Drain and discard the rinse water following step A above.	hangs over the sink edge by approximately 2 inches. Do not aftempt to lift the thawer. C. There are 2 drain fittings underneath the left side of the unit, one to drain the reservoir and one to drain the product chamber. The arrows on the side of the thawer will show the positions of the drain fittings. d. Place the discharge end of the drain hose into the sink or a	Change the water inside the thawer. A. Drain the thawer. a. Turn off the plasma thawer. b. Slide the thawer on the counter so that the left side of the thawer

Blood Product Leaks (As Needed Maintenance)

Step	Action Action If a blood product leak occurs, determine whether the blood product spill was contained in the membrane pocket or if it leaked into the water chamber.
2	If the blood product only leaked into the membrane pocket:
	 A. Pull the pocket assembly loose from the thawer and remove the pocket weight
	B. Wash and rinse the pocket and weight to remove all visible signs of
	blood product.
	C. Soak the pocket and weight in a 10% bleach solution for 20 minutes
	Soaking the pocket for longer than 20 minutes can damage the pocket. D. Rinse the disinfected pocket, inside and out, and the weight with
	running tap water. F. Reinstall the pocket into the thawer.
	 a. Place the pocket weight into the pocket.
	h Disce the nocket into the chamber

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Page 4 of 6

SOP ID: WAH BB84 SOP version # 1

Document:WAH.BB84[1] Status:INWORKS,Effective:4/25/2014, Check Version Before Use

Trile: Plasma Thawer Quality Control (ThermoGenesis MT204)

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u	Step	-
If both the blood product and membrane pocket leaked. A. Remove the pocket assembly and discard the broken pocket into the biohazard trash. B. Install a new pocket membrane. C. Drain 3 quarts of water from the chamber and replace with 3 quarts of bleach. This will result in a 10% bleach solution in the reservoir. D. Push the "Start" button and allow the pumps run for approximately 1 minute to mix the bleach. E. Allow the bleach solution to remain in the thawer for 30 minutes. Do NOT leave the bleach in the thawer for over 30 minutes, it may damage the thawer. F. Drain the contents of the chamber. G. Change the water per "Quarterly Maintenance, step 2" above.	c. Staring on the flat side, press the snap ring into the keeper. d. Working toward one corner, press the snap ring into place as you go. e. Work around the corner and along the opposite side, pressing the snap ring into place. Install a new pocket if the thawer must be used before the decontamination process can be completed. The cleaned pocket can then be stored for future use.	

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RELATED DOCUMENTS
Form: Daily Temperature QC (AG.F237)

- 'n REFERENCES

 1. Roback, J.D., Combs, M.R., Grossman, B.J., Hillyer, C.D. 2008. Technical Manual of the AABB, 16th ed. AABB Publishing, Bethesda, Maryland.

 2. Standards for Blood Banks and Transfusion Services, 2014. AABB, 29th ed. AABB Publishing, Bethesda, Maryland.

 3. Operation and Service Manual, MT204 Plasma Thawer, ThermoGenesis, Rev A, March 2000.

 4. Technical Services Bulletin, ThermoGenesis, Thawer Disinfectant Change, Nov 1,

SOP ID: WAH BB84 SOP version # 1

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Page 5 of 6

None

Title: Plasma Thawer Quality Control (ThermoGenesis MT204)

REVIS	REVISION HISTORY	ORY
Version	Date	Reason f
		Supersedes WAB519.01
000	3.26.14	Section 5: Updated SOP
		form. Changed wording
		thermometer" to "verifie
		reference for AABB star
		The state of the s

ADDENDA AND APPENDICES

9.

000		ersion
3.26.14		Date
to reflect that all QC is Daily Temperature QC of "calibrated ed thermometer." Updated ndards. g zero's dropped due to new 13.	Supersedes WAB519.01	Reason for Revision
SCodina		Revised By
NCacciabeve		Approved By

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Page 6 of 6



Daily Temperature Quality Control

	Γ	
Month:	Year:	Reviewed:

Date	Heat Block SN SA1B09444 (36-38C)	Hole	HemoTempil Activator SN 000017 (39-41C)	Plasma Thawer SN TD1372 (30-37C)	Room Temp (20-24C)	Interp S or U	Tech
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Monthly Plasma Thawer Maintenance:

WORKING Flashia Thawer Maintenance:							
	Date	Tech	Task				
			Check water level and fill as needed				
			Check power cord for splits or frays				

Legend:

(S)atisfactory (U)nsatisfactory

Quarterly Plasma Thawer Maintenance:

Date	Tech	Change Water/Add Conditioner	Temperature Verification					
			QC Therm SN	QC Therm Temp (°C)		Difference? Range = <1°C	Interp? S or U	