

TRAINING UPDATE

Lab Location: SGMC and WAH **Date Implemented:** 6.10.2016
Department: Blood Bank **Due Date:** 6.30.2016

DESCRIPTION OF PROCEDURE REVISION

Name of procedure:

Preparation of Phosphate Buffered Solution for Use with the Galileo Echo and Manual Capture Methodologies

Description of change(s):

1. Updated form to include the expiration date of the saline, pHix, and pH paper.
2. Updated SOP to reflect the changes made to the form.

Phosphate Buffered Solution Tracking Sheet

Tech	Saline Lot Number	pHix Lot Number	pH Paper Lot Number	Date Prepared	Expiration Date (30 days from date prepared or sooner)	pH (6.5 - 7.5)	Acceptable? Y or N
	Saline Expiration Date	pHix Expiration Date	pH Paper Expiration Date				

Reviewed By: _____ Date: _____

Electronic Document Control System



Document No.: WAH.BB103[1]

Title: Preparation of Phosphate Buffered Solution for Use with the Galileo Echo and Manual Capture Methodologies

Owner: LESLIE BARRETT

Status INWORKS

Effective Date: 02-Jul-2016

Next Review Date:

Non-Technical SOP

Title	Preparation of Phosphate Buffered Solution for Use with the Galileo Echo and Manual Capture Methodologies	
Prepared by	Stephanie Codina	Date: 6/15/2011
Owner	Stephanie Codina	Date: 6/15/2011

Laboratory Approval		
Print Name and Title	Signature	Date
<i>Refer to the electronic signature page for approval and approval dates.</i>		
Local Issue Date:		Local Effective Date:

Review:		
Print Name	Signature	Date

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Form revised 3/31/00

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1. PURPOSE

pHix is a concentrated solution of dissolved monopotassium and dipotassium salts. pHix is added to unbuffered saline to bring the pH to a range of 6.5 – 7.5 for use in Capture and hemagglutination antibody detection assays.

2. SCOPE

This procedure applies to the preparation of PBS (Phosphate Buffered Solution) for use with the Galileo Echo and Manual Capture test methodologies.

3. RESPONSIBILITY

All blood bank staff members must prepare and quality control PBS per this procedure.

4. DEFINITIONS

PBS (Phosphate Buffered Solution or Phosphate Buffered Saline) - A buffered saline with a pH in the range of 6.5 – 7.5 prepared by adding pHix to unbuffered saline.

5. PROCEDURE

Step	Action
1	pHix is ordered from Immucor (manufacturer's number 5070 or equivalent) and stored at room temperature.
2	Remove the packaging from one bottle of pHix.
3	Check the concentrate for evidence of crystallization. If crystals are present in the container, warm the concentrate to 35-40°C until they have dissolved.

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Step	Action
4	Obtain a cube of unbuffered saline. Add 10mL of pHix for every 1L of unbuffered saline. A. Add a full bottle of pHix to a 20L cube of saline. B. Add 100mL of pHix to a 10L cube of saline.
5	Gently mix the contents of the saline by tilting the container back and forth for approximately one minute.
6	Check the pH of the saline. A. The expected pH range is 6.5 – 7.5. B. Do not use the saline if the pH is outside of this range. Document disposition of the PBS on the back of the “Phosphate Buffered Solution Tracking Sheet.”
7	Document preparation of the PBS on the “Phosphate Buffered Solution Tracking Sheet.” A. Tech B. Lot number and expiration date of saline C. Lot number and expiration date of pHix D. Lot number and expiration date of pH paper E. Date prepared F. Expiration date (30 days from date prepared or expiration date of saline/pHix, whichever is sooner) G. pH H. Determination of whether the PBS is acceptable for use
8	Write the following information on the saline cube. A. “pHix Added” on <i>list date</i> B. Expires <i>list date</i> C. pH = <i>list pH</i>
9	PBS should not be used to prepare enzyme solutions of ficin or papain. PBS should not be used to prepare cell suspensions that will be tested using reagents prepared in acidic diluents.

6. RELATED DOCUMENTS

Form: Phosphate Buffered Solution Tracking Sheet (AG.F126)

7. REFERENCES

pHix Phosphate Buffer Concentrate Manufacturer’s Instructions, Insert code 324-8, Rev 10/07, ImmucorGamma, Norcross, GA.

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8. REVISION HISTORY

Version	Date	Reason for Revision	Revised By	Approved By
000	6.1.16	Section 5: Added a requirement to document the expiration dates of saline, PBS, and pH paper on the form. Sections 6 & 9: Moved appendix to related documents area Footer: version # leading zero's dropped due to new EDCS in use as of 10/7/13.	SCodina	NCacciabeve

9. ADDENDA AND APPENDICES
NA

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