



STEM CELL LABORATORY (STCL)



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DOCUMENT TITLE:

AB Serum Test - AB Control

DOCUMENT NOTES:

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Control Information

Author: WATE02

Owner: WATE02

Previous Number: 4D.260

Change Number: NA

STCL-SOP-049 JA1 AB SERUM TEST (AB CONTROL)

1. PURPOSE

- 1.1. To provide instructions for staff in the performance of AB test controls when an AB test result is obtained.

2. INTRODUCTION

2.1. Confirmation of AB Positive Blood Type

- 2.1.1. When patients are identified for the first time as AB positive, the AB control test is performed to distinguish between a true AB positive blood type and spontaneous agglutination caused by Wharton's jelly in cord blood samples or by heavily IgG-coated red cells.

3. SCOPE

- 3.1. Designated laboratory staff processing cellular products will perform this testing. The Medical Directors and Laboratory Manager(s) are responsible for ensuring that the requirements of this procedure are successfully met.

4. DEFINITIONS/ACROYNMS N/A

5. EQUIPMENT

- 5.1. Centrifuge
- 5.2. Agglutination mirror

6. MATERIALS

6.1. Reagents:

- 6.1.1. In-house AB control

6.2. Supplies:

- 6.2.1. 12 x 75 mm test tubes
- 6.2.2. Disposable pipettes

7. SAFETY

- 7.1. Wear all appropriate personal protective equipment when handling potentially hazardous blood and body fluids.

8. PROCEDURE

- 8.1. Make a 4% red cell suspension.
- 8.2. Thaw an aliquot of 6% Albumin (this may be found in the designated laboratory freezer. Record the thaw date on the nunc vial and assign a 24 hour expiration date and time.
- 8.3. Add one (1) drop of the red blood cell suspension to two drops of the thawed aliquot of AB serum or 6% Albumin*. Centrifuge (see calibration label on

centrifuge for appropriate time and speed), read and record results in the ABO/Rh logbook (ie. AB Control + or AB Control -).

- 8.3.1. If the AB control test fails to demonstrate agglutination (negative test), record these results in the ABO/Rh logbook.
- 8.3.2. If the AB control test demonstrates agglutination (positive test), spontaneous agglutination due to heavy coating of IgG or polyagglutination is likely. Consult Transfusion Services for additional testing recommendations (i.e. warm wash, DTT, testing with cord blood sera and/or lectins etc.).

* **NOTE:** 6% Albumin is prepared by mixing 17 mL of 25% Albumin with 33 mL of normosol saline. The sample is frozen in 1 ml aliquots, 50 tubes per batch. The rack is labeled to include the lot numbers and expiration dates of the normosol and albumin as well as the date prepared/frozen. No expiration date is assigned once the albumin suspension is frozen.

Signature Manifest**Document Number:** STCL-SOP-049 JA1**Revision:** 01**Title:** AB Serum Test - AB Control

All dates and times are in Eastern Time.

STCL-SOP-049 JA1 AB Serum Test**Author Approval**

Name/Signature	Title	Date	Meaning/Reason
Barbara Waters-Pick (WATE02)		11 May 2011, 09:19:32 PM	Approved

Manager Approval

Name/Signature	Title	Date	Meaning/Reason
Barbara Waters-Pick (WATE02)		11 May 2011, 09:19:48 PM	Approved

Medical Director Approval

Name/Signature	Title	Date	Meaning/Reason
Joanne Kurtzberg (KURTZ001)		13 May 2011, 10:47:45 AM	Approved

QA Approval

Name/Signature	Title	Date	Meaning/Reason
Linda Sledge (SLEDG006)	Quality Manager	13 May 2011, 01:33:01 PM	Approved

Notification

Name/Signature	Title	Date	Meaning/Reason
Sandy Mulligan (MULLI026)		13 May 2011, 01:33:02 PM	Email Sent
System Administrator (SYSADMIN)		13 May 2011, 01:33:02 PM	Email Sent
Barbara Waters-Pick (WATE02)		13 May 2011, 01:33:02 PM	Email Sent

Review: STCL-SOP-049 JA1 01**Review**

Name/Signature	Title	Date	Meaning/Reason
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Janet Celko (CELKOJ)	25 Apr 2012, 03:44:58 PM	Reviewed
Barbara Waters-Pick (WATE02)	04 May 2012, 03:54:14 PM	Reviewed
Joanne Kurtzberg (KURTZ001)	08 May 2012, 08:10:39 AM	Reviewed
Linda Sledge (SLEDG006)	09 May 2012, 01:44:15 PM	Reviewed

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Name/Signature	Title	Date	Meaning/Reason
Barbara Waters-Pick (WATE02)		07 May 2013, 12:02:18 PM	Reviewed
Sharon Hartis (SH259)		07 May 2013, 02:00:32 PM	Reviewed
Betsy Jordan (BJ42)		07 May 2013, 02:24:15 PM	Reviewed
Joanne Kurtzberg (KURTZ001)		07 May 2013, 08:45:48 PM	Reviewed
Linda Sledge (SLEDG006)		08 May 2013, 08:37:43 AM	Reviewed

Review: STCL-SOP-049 JA1 01**Review**

Name/Signature	Title	Date	Meaning/Reason
Barbara Waters-Pick (WATE02)		09 Mar 2015, 04:31:18 PM	Reviewed
Joanne Kurtzberg (KURTZ001)		10 Mar 2015, 06:28:14 PM	Reviewed
Sharon Hartis (SH259)		12 Mar 2015, 07:33:26 AM	Reviewed
John Carpenter (JPC27)		12 Mar 2015, 08:35:37 AM	Reviewed
Betsy Jordan (BJ42)		12 Mar 2015, 09:11:50 AM	Reviewed