



cap

ETME-B

2013
(ETME1)



KIT# 26340514 2 01 80

CAP# 2463716-15 SEQ# 01 CD 52 0009
CLIA# 50D0631627

PRODUCTS: 2013ETME1 (ETME1)

ERIN TUOTT MT(ASCP)
HARBORVIEW MED CTR
TEL#206-744-3088

FAX#206-744-6565

Page: 1

Results must be received at the CAP no later than
midnight, Central Time by the due date below:

October 15, 2013

Online: cap.org (preferred method)

Fax: 866-FAX-2CAP (866-329-2227)

Expanded Transfusion Medicine Exercises Result Form

Reporting Code Selection

- If your method summary page states, "Please Provide a Valid Code,"
 - If your code is listed incorrectly, or
 - If you have changed your methodology,
- Review the master list for an appropriate code and enter it on the result form. If there is no master list, select the code directly on the result form.

If you cannot find an appropriate code:

Select **Other** from the kit instructions or result form and describe your method in the **Use of Other** section of the result form.

If you need assistance, please call the Customer Contact Center at 800-323-4040 option 1 (domestic), or 847-832-7000 option 1 (international).

View the e-LAB Solutions™ user guide via cap.org

© CAP 2013

Wet Challenge - ETM1-05R/ETM1-05S (Post transfusion specimens)

Case History

A 70-year-old African American female was admitted in the early morning for 4 vessel coronary bypass graft surgery that day. Review of systems revealed that she had moderate to severe coronary artery disease with 4 drug eluting stents placed over the past 3 years at another hospital. She recently developed angina on mild exertion. An angiogram showed worsening severe coronary atherosclerosis. She discontinued her clopidigrel about 4 months ago. Additionally, she has moderate chronic obstructive pulmonary disease from smoking 1 to 2 packs of cigarettes a day most of her adult life, and hypertension for 15 years treated with a beta blocker. Her hematocrit on this admission was 32%, WBC 9.5 k/μL, platelet count 291 k/μL. A type and crossmatch for two units was ordered. The blood bank found the patient to be B+ with a negative antibody screen. Two units were crossmatched by the immediate spin (IS) technique and the units were issued to the OR and placed in the OR refrigerator. The patient has not had a previous specimen for ABO/Rh at this hospital. Surgery began at 9:30 AM. Estimated blood loss was about 1200 mL and the patient began receiving two units of IS crossmatched red cells at 10:30 AM.

At noon the patient arrived in the recovery room where she had a blood pressure (BP) of 100/80 with a pulse of 102 per minute and a temperature of 100.4°F as compared to a BP of 140/70 with a pulse of 74 and a temperature of 98.5°F in the pre-op holding area prior to surgery. She was given 1500 mL of saline over the next 90 minutes to maintain her systolic BP over 100. At 2:30 PM the BP was 80/60 with a pulse of 110. Considerable increase in oozing of blood from the surgical site was noted as well as an increase in chest tube drainage of blood (220 mL/hr). She rapidly received two more units of B+ immediate spin crossmatched blood (using the original patient specimen in the blood bank) over the next hour. At 3:30 PM her BP was 84/60 with a pulse of 110 and her urine was darker than normal. A transfusion reaction investigation was initiated and a newly obtained patient blood specimen was sent to the blood bank for a transfusion reaction work up.

Repeat pretransfusion testing and new posttransfusion testing on the patient's specimens showed:

Test	Pretransfusion	Posttransfusion
Forward ABO grouping		
Patient cells with anti-A	0	0
Patient cells with anti-B	4+	1+ mixed field
Patient plasma with A1 cells	4+	4+

Test	Pretransfusion	Posttransfusion
Reverse ABO grouping		
Patient plasma with B cells	0	1+
Patient cells for Rh testing	4+	4+
Antibody screen	negative	negative
Hemolysis	negative	positive
DAT	negative	to be performed





CAP

ETME-B

2013
(ETME1)



KIT# 26340514 2 02 23

CAP# 2463716-15 SEQ# .01 CD 52 0009

CLIA# 50D0631627

PRODUCTS: 2013ETME1 (ETME1)

ERIN TUOTT MT(ASCP)
HARBORVIEW MED CTR

Page : 2

Results must be received at the CAP no later than
midnight, Central Time by the due date below:

October 15, 2013

Wet Challenge - ETM1-05R/ETM1-05S (Post transfusion specimens), cont'd

The clerical check showed that the patient's name and medical record number matched on all paperwork including the crossmatch tag and the patient's arm band on both the pre- and posttransfusion specimen. The blood segments retained in the blood bank from the 4 transfused units all confirmed as B positive on retyping them.

The transfusion medicine physician went to see the patient and found her to be somewhat agitated. Besides dark urine, he saw that she had petechiae and ecchymosis over her arms and torso and that the surgical dressings were soaked with fresh blood. There was bleeding from venipuncture sites.

Tests to be performed by participants

1. Perform a direct antiglobulin test (DAT) on the post transfusion red cell specimen (ETM1-05R). If you find the DAT to be positive, please perform an elution and further serologic studies to determine if a specific antibody can be detected.
2. The surgeon wants at least 2 more units of red cells and 1 unit of apheresed platelets stat because the hematocrit is now 19% and the platelet count is 25 k μ L. Perform compatibility testing using specimen ETM1-05S and 2 red cell units from your own inventory.
3. Answer wet challenge questions.

Direct Antiglobulin Testing - ETM1-05R

Polyspecific Antiglobulin Reagent

Manufacturer of Reagents	Method	Exception Code
010 <input checked="" type="radio"/> 183 Bio-Rad/DiaMed <input type="radio"/> 119 ImmucorGamma <input type="radio"/> 118 Medion Diagnostics <input type="radio"/> 121 Ortho-Clinical Diagnostics <input type="radio"/> 109 Other, specify in final section	020 <input checked="" type="radio"/> 26 Tube testing <input type="radio"/> 27 Solid phase red cell adherence <input type="radio"/> 29 Column agglutination (gel testing) <input type="radio"/> 23 Buffered gel card <input type="radio"/> 17 Other, specify in final section <input type="radio"/> 30 Polyspecific reagent not used	030 <input type="radio"/> 11 <input type="radio"/> 33

Serologic Results

A response is required for serologic results. Do not leave blank. <input checked="" type="radio"/>	If a positive result, indicate the strength of reaction.	If a positive result, was a mixed field reaction observed?
040 <input checked="" type="radio"/> 30 Positive <input type="radio"/> 29 Negative <input type="radio"/> 70 Not tested	050 <input type="radio"/> 24 Microscopic reaction <input checked="" type="radio"/> 25 1+ reaction <input type="radio"/> 26 2+ reaction <input type="radio"/> 27 3+ reaction <input type="radio"/> 28 4+ reaction	060 <input type="radio"/> 35 Yes <input type="radio"/> 36 No <input checked="" type="radio"/> 71 Did not examine for a mixed field reaction





CAP

ETME-B

2013
(ETME1)



KIT# 26340514 2 03 66

CAP# 2463716-15 SEQ# 01 CD 52 0009
CLIA# 50D0631627

PRODUCTS: 2013ETME1 (ETME1)

ERIN TUOTT MT(ASCP)
HARBORVIEW MED CTR

Page: 3

Results must be received at the CAP no later than
midnight, Central Time by the due date below:

October 15, 2013

Direct Antiglobulin Testing - ETM1-05R, cont'd

Anti-IgG Reagent

Manufacturer of Reagents	Method	Exception Code
<input checked="" type="radio"/> 010 183 Bio-Rad/DiaMed <input type="radio"/> 119 ImmucorGamma <input type="radio"/> 118 Medion Diagnostics <input type="radio"/> 121 Ortho-Clinical Diagnostics <input type="radio"/> 125 Laboratory developed <input type="radio"/> 109 Other, specify in final section	<input checked="" type="radio"/> 020 26 Tube testing <input type="radio"/> 27 Solid phase red cell adherence <input type="radio"/> 29 Column agglutination (gel testing) <input type="radio"/> 23 Buffered gel card <input type="radio"/> 17 Other, specify in final section <input type="radio"/> 30 Anti-IgG reagent not used	<input type="radio"/> 030 11 <input type="radio"/> 33

Serologic Results

A response is required for serologic results. Do not leave blank. (U)	If a positive result, indicate the strength of reaction.	If a positive result, was a mixed field reaction observed?
<input checked="" type="radio"/> 040 30 Positive <input type="radio"/> 29 Negative <input type="radio"/> 70 Not tested	<input type="radio"/> 050 24 Microscopic reaction <input checked="" type="radio"/> 25 1+ reaction <input type="radio"/> 26 2+ reaction <input type="radio"/> 27 3+ reaction <input type="radio"/> 28 4+ reaction	<input type="radio"/> 060 35 Yes <input type="radio"/> 36 No <input checked="" type="radio"/> 71 Did not examine for a mixed field reaction

Anti-C3b/C3d Reagent

Manufacturer of Reagents	Method	Exception Code
<input type="radio"/> 070 183 Bio-Rad/DiaMed <input type="radio"/> 119 ImmucorGamma <input type="radio"/> 118 Medion Diagnostics <input checked="" type="radio"/> 121 Ortho-Clinical Diagnostics <input type="radio"/> 109 Other, specify in final section	<input checked="" type="radio"/> 080 26 Tube testing <input type="radio"/> 29 Column agglutination (gel testing) <input type="radio"/> 23 Buffered gel card <input type="radio"/> 17 Other, specify in final section <input type="radio"/> 30 Anti-C3b/C3d reagent not used	<input type="radio"/> 090 11 <input type="radio"/> 33

Serologic Results

A response is required for serologic results. Do not leave blank. (U)	If a positive result, indicate the strength of reaction.	If a positive result, was a mixed field reaction observed?
<input type="radio"/> 100 30 Positive <input checked="" type="radio"/> 29 Negative <input type="radio"/> 70 Not tested	<input type="radio"/> 110 24 Microscopic reaction <input type="radio"/> 25 1+ reaction <input type="radio"/> 26 2+ reaction <input type="radio"/> 27 3+ reaction <input type="radio"/> 28 4+ reaction	<input type="radio"/> 120 35 Yes <input type="radio"/> 36 No <input type="radio"/> 71 Did not examine for a mixed field reaction





cap

ETME-B

2013
(ETME1)



KIT# 26340514 2 05 42

CAP# 2463716-15 SEQ# 01 CD 52 0009
CLIA# 50D0631627

PRODUCTS: 2013ETME1 (ETME1)

ERIN TUOTT MT(ASCP)
HARBORVIEW MED CTR

Page: 5

Results must be received at the CAP no later than
midnight, Central Time by the due date below:

October 15, 2013

Eluate Testing - ETM1-05R

Antibody Screen and Identification

Method for Eluate Preparation	Manufacturer of Antibody Identification Panel	Method for Antibody Identification
<input type="radio"/> 18 Cold acid <input type="radio"/> 19 Digitonin acid <input type="radio"/> 20 Dichloromethane (DCM) Glycine acid: <input checked="" type="radio"/> 47 Gamma ELU-Kit II <input type="radio"/> 94 Hemo bioscience ELUclear <input type="radio"/> 95 Other glycine acid method, specify in final section <input type="radio"/> 21 Glycine-HCl/EDTA <input type="radio"/> 01 Other, specify in final section	<input type="radio"/> 125 Laboratory developed <input checked="" type="radio"/> 113 Alba Bioscience (Quotient Biodiagnostics) <input type="radio"/> 120 American Red Cross <input type="radio"/> 183 Bio-Rad/DiaMed <input type="radio"/> 119 ImmucorGamma <input type="radio"/> 118 Medion Diagnostics <input type="radio"/> 121 Ortho-Clinical Diagnostics <input type="radio"/> 111 Selected cells from any of the above <input type="radio"/> 010 Other manufacturer, specify in final section	<input type="radio"/> 030 Tube Testing: <input type="radio"/> 11 Albumin - AHG <input type="radio"/> 12 LISS - AHG <input checked="" type="radio"/> 13 PEG - AHG <input type="radio"/> 22 AHG without enhancement <input type="radio"/> 27 Solid Phase Red Cell Adherence <input type="radio"/> 29 Column Agglutination (Gel Testing) <input type="radio"/> 01 Other, specify in final section
Exception Code <input type="radio"/> 11 <input type="radio"/> 33	<input type="radio"/> 050 110 Unexpected antibody not detected <input type="radio"/> 111 Unexpected antibody detected	
Exception Code <input type="radio"/> 11 <input type="radio"/> 33	<input checked="" type="radio"/> If an exception code is reported, you must leave the corresponding result area blank.	
	<input type="text"/> 070 <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> 080 <input type="text"/> <input type="text"/> <input type="text"/>
		<input type="text"/> 090 <input type="text"/> <input type="text"/> <input type="text"/>

24805



Eluate Testing Form

Name: Capsurv, ETM1-05 Accession #: _____
 Hospital ID: _____ Date: 11/26/13
 Birth Date: _____ Tech ID: 3853

ABO/Rh: B POS			Antibody Screen (circle one) POS NEG	
DAT	Poly: 1+	IgG: 1+	C3: 0	CT: 0

Eluate Kit Lot Number: All reagents in date? (circle one) YES NO
 Working Wash Solution 349019 Buffering Solution 347017
 Eluting Solution 348014

LAST WASH

Lot #	PEG AHG	CC	INTER
S1	0	3+	Negative
S2	0	3+	
S3	0	3+	

Comments:

ELUATE

Cell Lot number/ Donor #	ABO	PEG AHG	CC	INTER	Cell Lot Number/ Donor #	ABO	PEG AHG	CC	INTER
	A					B			
	A					B			
	A					B			

See attached worksheet(s) for eluate results: (circle one) YES NO

Reviewed by: _____ Date: _____

KEY: INTER = Interpretation; POLY = Polyspecific AHG; CT = Control; POS = Positive; NEG = Negative;

