**Elution Testing with Gamma ELU-Kit II**

**Print this copy to write on now. Enter your responses in Catalyst AFTER you have completed one-on-one training.**

1. Which of the following DAT results warrants an elution?
2. Positive with polyspecific AHG, anti-IgG and anti-C3
3. Positive with polyspecific AHG and anti-IgG only
4. Positive with polyspecific AHG and anti-C3 only
5. a and b
6. a and c
7. An elution is performed to investigate a positive DAT caused by: (list 2)
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Total elution removes antibody coating the RBCs rendering them suitable for antigen typing.

True \_\_\_\_\_\_

False \_\_\_\_\_\_

1. What method does the Gamma ELUKIT II utilize to dissociate antibody that is bound to RBCs?
2. Alteration in temperature
3. Alteration in pH
4. Chemical treatment
5. Solvent treatment
6. You just received 2 new Gamma ELUKITs and you don’t know what the storage temperature is. Where would you find the information? (Not who would you ask)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Elution Quiz (continued)**

1. You are asked to prepare the working wash solution. The bottle of concentrated wash solution given to you was about 2/3 full (Oops, I spilled some). This is the last kit in our inventory. How would you make the working wash?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Per HMC SOP, which of the following will be tested using the conventional antiglobulin technique with PEG additive?
2. Only the last wash
3. Only the eluate
4. Both the last wash and the eluate
5. You tested the last wash and SC 2 is weakly positive. What is your next step?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The volume of eluting solution to be added is always 20 drops.

True \_\_\_\_\_\_\_

False \_\_\_\_\_\_\_

1. You are ready to add the buffering solution and observed that it is pale yellow. Use it anyway since the label says it is the buffering solution.

True \_\_\_\_\_\_\_

False \_\_\_\_\_\_\_

1. You have added buffering solution and centrifuged the eluate. It still appears cloudy. What is your next step?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Elution Quiz (continued)**

1. A DAT was ordered on Jane Doe (78 year-old female) who comes in once a week for platelet transfusions only. Patient is group AB Rh positive. Antibody screen has always been negative. Based on the following results:

DAT (polyspecific AHG) = 1+

DAT (-IgG) = 1+

DAT (-C3b, -C3d) = negative

Control = negative

Last Wash: non-reactive with SC 1, 2 and 3

Eluate: non-reactive with Albacyte 10-cell panel

What do you think is a possible cause of the positive DAT and what additional testing would you do?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A DAT was ordered on John Doe (55 year-old male) who has never been transfused. Patient was admitted for treatment of a severe bacterial infection. Patient is group O Rh positive. Antibody screen is negative.

Based on the following results:

DAT (polyspecific AHG) = 4+

 DAT (-IgG) = 4+

 DAT (-C3b, -C3d) = negative

 Control = negative

Last wash: non-reactive with SC 1, 2 and 3

Eluate: non-reactive with Albacyte 10-cell panel

 What do you think is a possible cause of the positive DAT?

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**BONUS QUESTION**

If you know where to find the storage temperature of a reagent, what specifically would you look for if you do not want to read the entire document or even open the document to find the information?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_