



BABEC PCR Optimization Debriefing Form

1. Teacher Information

Name _____ School _____

2. Partnership _____

3. Subject/ Class (select all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Adv./ Honors Biology
<input type="checkbox"/> AP Biology
<input type="checkbox"/> Biology
<input type="checkbox"/> Biotechnology
<input type="checkbox"/> Cell Biology
<input type="checkbox"/> Chemistry | <input type="checkbox"/> Environmental Science
<input type="checkbox"/> Forensics
<input type="checkbox"/> Genetics
<input type="checkbox"/> Integrated Science
<input type="checkbox"/> Other, please specify
_____ |
|---|---|

4. Provide the number of students for each section. If you marked multiple classes, above, please specify the class on each line (ex. Adv. Bio – 30, Biology – 32):

Section 1 _____	Section 4 _____
Section 2 _____	Section 5 _____
Section 3 _____	

5. What previous micropipetting experience did your students have?

6. Did you have major problems with your PCR reaction (ie. no bands)?

Yes No

7. If you marked yes, please describe the reagent storage conditions. Check the appropriate box for each reagent.

Reagents	Fridge	Freezer	Room Temp.	N/A
10X PCR Buffer				
25mM MgCl ₂				
10mM dNTP mix				
AmpliTaq Gold				
AChE forward primer				
AChE reverse primer				
Calf thymus DNA				
MW Marker				

8. Tell us about the results of the teams optimizing the MAGNESIUM concentrations:

of teams _____
of teams with bands _____
of teams able to find an optimal concentration _____
of teams with no results _____

9. Were the bands distinct and easily readable?

Yes No

Comments:

10. Tell us about the results of the teams optimizing the PRIMER concentrations:

of teams _____
of teams with bands _____
of teams able to find an optimal concentration _____
of teams with no results _____

11. Were the bands distinct and easily readable?

Yes No

Comments:

12. Was a ladder run on all of the gels?

Yes No

Comments:

13. Did you see bands other than at 553 bp?

Yes No

Comments:

14. If your results did not turn out as expected, what problem(s) do you think may have occurred?

15. How was the support you received? Please specify the source (another teacher, partnership coordinator, BABEC outreach coordinator, etc.).

16. What additional support would have been helpful?

17. What was your students' overall reaction to the lab/unit? If possible, please include a quote or anecdote.

18. Additional comments: