Pre Lab 8: Unknown Molecular Part II: Agarose Gel and PCR Purification

Review the PCR purification principle on pg 12 - 16. Complete the table below.

 Table 1: Purpose of buffers used in PCR purification

Buffer	Reason for using
РВ	
PE	
EB	

Lab Worksheet 8: Unknown Molecular II

1.	Include a figure of your ge	l. Use clear	labelling or	a figure	legend	l to ind	icate the	: lane
	that contains your sample	. 2 marks						

2.	Using the DNA molecular weight ladder, what is the size of your PCR product? If you
	didn't have a product, use another lane in the gel image. 1 mark

3.	What was the purpose of the PCR in our semester-long experiment on you
	environmental isolate? 1 mark

- 4. Was your PCR successful? Explain why or why not. 2 marks
- 5. Explain the result of the PCR negative control on the gel. 1 mark
- 6. Explain the result of the PCR positive control on the gel. 1 mark
- 7. Show your calculation for adjusting the concentration of your DNA sample. Report your answer as the volume of DNA sample you'd pipette (e.g. round to a number that you are able to accurately pipette). If you didn't have a sample, show the calculation if your sample was 47 ug/ul and you were adjusting it to 10 ug/ul. 2 marks