The purpose of this activity is to get you to think about the results and to use the information to make a recommendation regarding this outbreak. Think about the information, and answer these questions as you go through the case.

Type your answers out and hand them in on the due date.

Remember—each answer must be in your own words. Site all references.

THE METHODS (5 PTS)

Part 1: There are no questions for part 1—just note your results.

Part 2: Clinical samples
a) How is MacConkey/sorbitol selective? How does MacConkey/sorbitol differentiate between E.coli and Ecoli OH157? (1 pt)

b) How is Hektoen selective? How does Hektoen differentiate between Salmonella and Shigella? (1 pt)

Part 3: More clinical samples
a) What medium is typically used to isolate the organism you now suspect? How is it selective? How is it differential? (1 pt)

Part 4: Confirming the Pathogen
a) In your own words, explain how a direct ELISA works. (1 pt)

Part 5: There are no questions for part 1—just note your results.

Part 6: Finishing touches
a) In your own words, explain how ribotyping works. (1 pt)

YOUR CONCLUSION: (5 pts)

Given all the results from above (symptoms, selective/differential media, ELISA, interviews, ribotyping) put together a story of what made the passengers sick, and how you think they got sick.

Be sure to address these points:

- What caused the outbreak? (What evidence do you have for what it is and what it is not?)
- From where did the pathogen come? (What evidence do you have for your conclusions?)

Include your results (as evidence) to support each conclusion

NOTE: Your answers may not exceed a total of 2 pages (12 point font)