Med Micro IV HW #2 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Do the results of the multi-stix strip test correlate positively with the results of the OXOID dipslide? If so, how? If not, why?

2. Various enteric bacteria, especially E. coli, are the cause of most urinary tract infections in humans. A quick test for the presence of these bacteria in urine is to detect nitrite in the urine. Why?

3a. A fresh urine sample was plated onto blood agar plate using a 10 microliter calibrated loop, and incubated for 18 hours at 37 degrees Celsius. If 30 colonies were counted on the 10-1 dilution plate, perform the calculation to determine bacteriuria levels in CFU/ml. Use the following conversion factor, 1 ml = 1000 microliter.

3b. Interpret the results obtained from this data.

4. Discuss the advantages of using a diagnostic culture system such as OXOID Dipslide 119.