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Thursday Lab

ELISA Antibody Test

Purpose: Experiment with the ELISA antibody test.

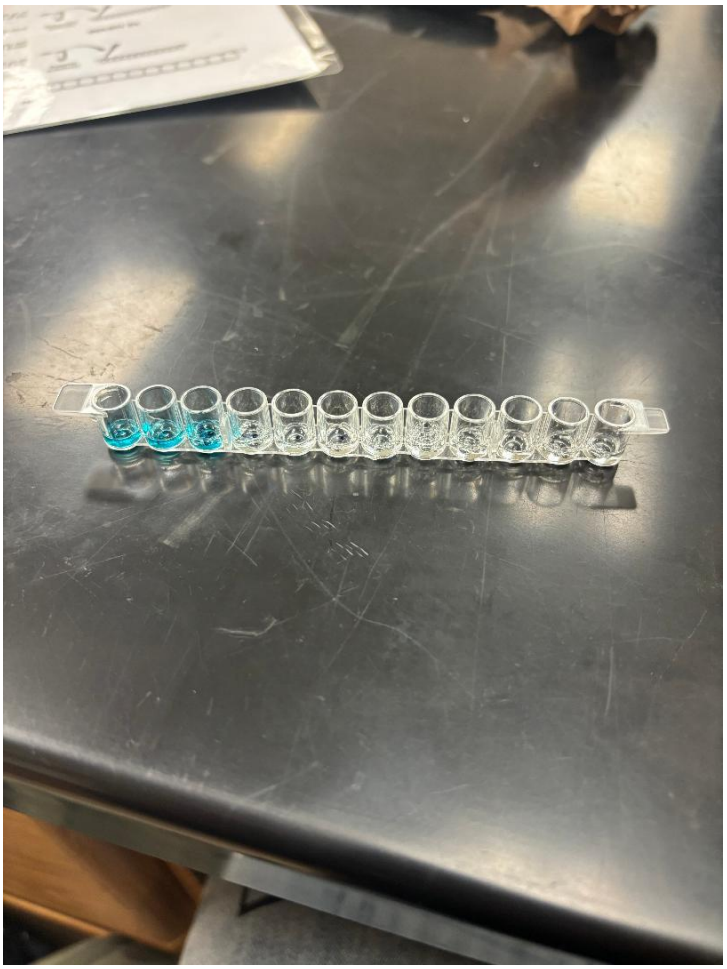
Procedures:

1. Label the yellow tubes (if necessary) to identify the samples being tested.
2. Label your 12-well strip. On each strip label the first 3 wells with a "+" for the positive controls and the next 3 wells with a "-" for the negative controls. Label the remaining wells to identify the samples being tested (3 wells each).
3. Use a fresh pipet tip to transfer 50 pl of purified antigen (AG) into each of the 12 wells of the microplate strip.
4. Wait 5 minutes for the antigen to bind to the plastic wells.
5. WASH:

A. Tip the microplate strip upside down onto the paper towels, and gently tap the strip a few times upside down. Make sure to avoid splashing sample back into wells.
B. Discard the top paper towel.
C. Use your transfer pipet to fill each well with wash buffer, taking care not to spill over into neighboring wells. Note: the same transfer pipet is used for all washing steps.
D. Tip the microplate strip upside down onto the paper towels and tap.
E. Discard the top 2-3 paper towels.

6. Repeat wash step 5.
7. Use a fresh pipet tip to transfer 50 ul of the positive control (+) into the three "+" wells.
8. Use a fresh pipet tip to transfer 50 ul of the negative control (-) into the three "-" wells.
9. Transfer 50 ul of each of your team's serum samples into each of the appropriately initialed three wells, using a fresh pipet tip for each serum sample.
10. Wait 5 minutes for the antibodies to bind to their targets.
11. Wash the unbound primary antibody out of the wells by repeating all of wash step 5 two times.
12. Use a fresh pipet tip to transfer 50 ul of secondary antibody (SA) into each of the 12 wells of the microplate strip.
13. Wait 5 minutes for the antibodies to bind to their targets.
14. Wash the unbound secondary antibody out of the wells by repeating wash step 5 three times.
15. Use a fresh pipet tip to transfer 50 ul of enzyme substrate (SUB) into each of the 12 wells of the microchip strip.
16. Wait 5 minutes. Observe and record the results.

Results:



Discussion: The main mistake that couldve been made was tipping over the test strips, luckily that did not happen to our group, so our results are accurate.

Conclusion: To conclude, the antibodies in our test strip turned a lightish blue. No mistakes were made with our grouop of four.