

Name:

Date:

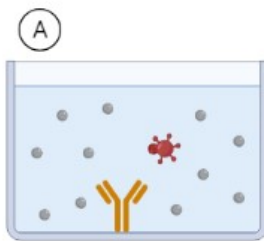
Class:

Post-Assessment Answer Key

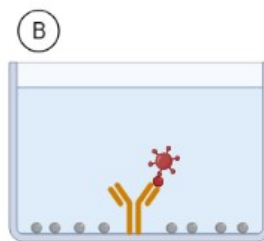
Immune Response and the Enzyme-Linked Immunosorbent Assay

Make a model of the steps necessary to perform an ELISA test. Draw the components for each step (A-E) and describe what happens in each step. You can create your own models use the symbols provided at the bottom of this diagram. Models can be reused, and all should have labels.

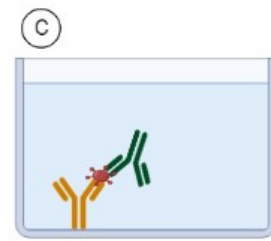
Note: There may be variations on the pictures. For example, students can draw a primary antibody with no antigen in picture A. Picture B can show bound and unbound antigens. Secondary or detection antibody can be conjugated with the enzyme prior to being added, so picture C can also have an enzyme attached.



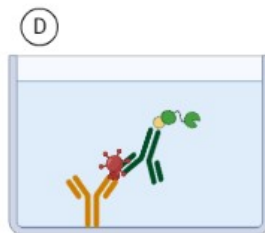
A
Wells are pre-coated with capture antibody and sample is added



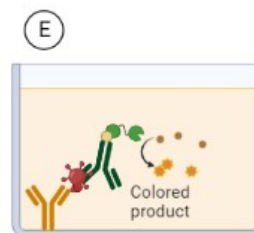
B
Capture antibody binds to antigen with high specificity



C
Detection antibody binds to capture antibody



D
Enzyme is added and linked to detection antibody.



E
Enzyme catalyzes reaction and substrate changes color.

Created in [BioRender.com](https://www.biorender.com)