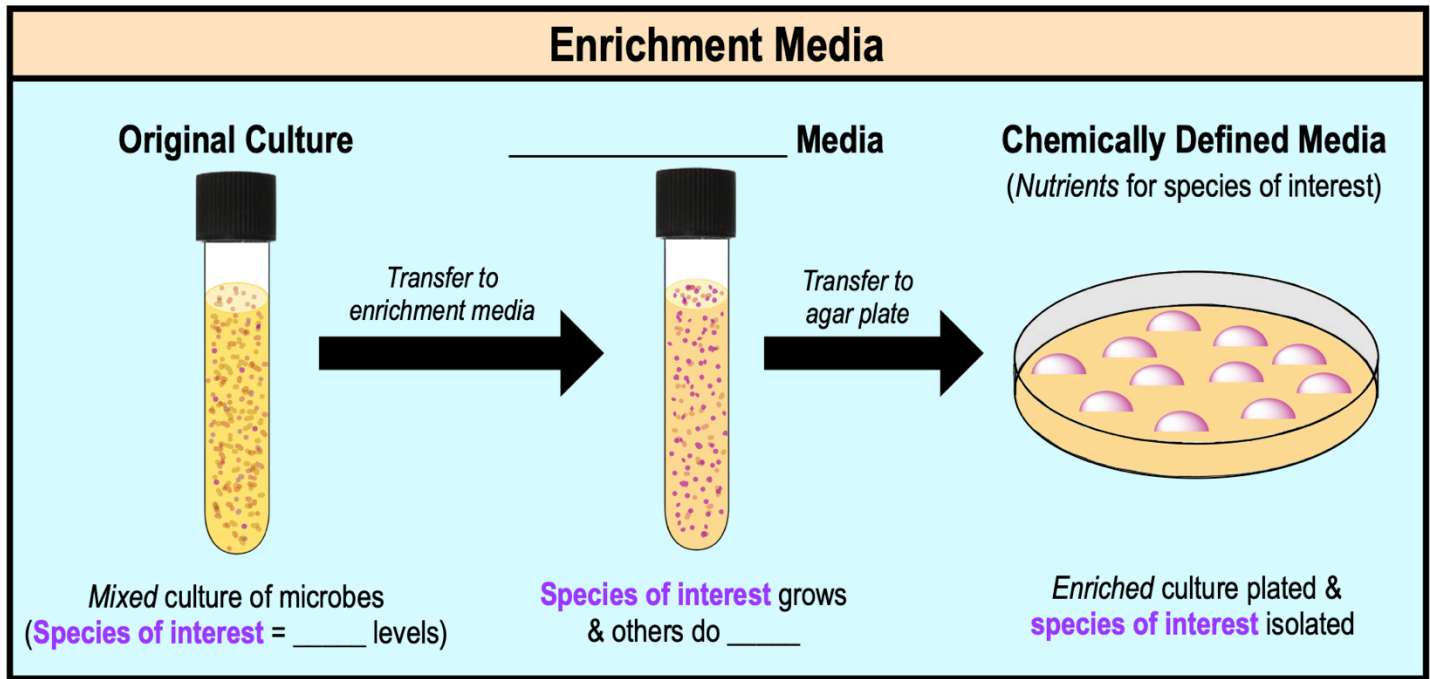


## CONCEPT: ENRICHMENT MEDIA

- To isolate an organism present in \_\_\_\_\_ amounts of a mixed sample, scientists generally use *enrichment media*.
  - \_\_\_\_\_ **Media:** has nutrients that are *favorable* for only a *specific* microbe.
  - Similar to *selective media* but enrichment media does \_\_\_\_\_ contain inhibitors.
  - Enrichment media is designed to \_\_\_\_\_ growth of an undetectable microbe to *detectible* levels.



**PRACTICE:** Microbiologists can use a range of media to grow microbes in the lab. If a microbiologist wants to differentiate hemolytic bacteria from non-hemolytic bacteria in their sample, what form of media should they use?

- Selective media.
- Complex media.
- Differential media.
- Chemically defined media.

**PRACTICE:** A microbiologist takes a water sample from a lake and the sample has a variety of bacterial species. However, she only wants to grow one species of bacteria from the sample for her experiment. What form of growth media should she use in her experiment?

- The scientist should use an enrichment medium that only supports the growth of the species she is interested in.
- The scientist should use a differential medium to differentiate the different species in her sample.
- The scientist should use a reducing medium to only grow anaerobic species.