**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Tests Used to Identify *Enterobacteriaceae***

Gram negative bacteria in the family Enterobacteriaceae are often identified using a series of biochemical tests including Indole, Methyl-Red, and Citrate and TSI.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name of Test** | **What this test reveals about bacteria** | **How to set up test** | **What a (+) result looks like** | **What (-) looks like** | **Which stock lab bacteria test (+)** |
| 1.  **Indole***(Remember, we used a broth, not a solid slant, as the instructions indicated. You inoculated it the same way as Methyl-Red)* |  |  |  |  |  |
| 2. **Methyl-Red***(For both the Indole and the Methyl-Red tests, add an entire dropperful of reagent to the test tube after incubation, rather than just 5 drops. This will produce a more visible reaction if the test is positive.)* |  |  |  |  |  |
| **Name of Test** | **What this test reveals about bacteria** | **How to set up test** | **What a (+) result looks like** | **What (-) looks like** | **Which stock lab bacteria test (+)** |
| 3. **Citrate** |  |  | The media turns a very brilliant blue. | The media stays a duller bluish green. |  |
| 4. **TSI** | Glucose |  |  |  |  |  |
| GlucoseLactoseSucrose |  |  |  |  |
| Gas |  |  |  |  |
| Sulfate reduction |  |  |  |  |

\* Provide as much detail as the media reveals. This means be sure that you answer is complete, in order to earn complete points.