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| --- | --- | --- | --- | --- |
| Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | Period\_\_\_\_\_\_ Organism Code #\_\_\_\_\_\_\_\_ | |
| **ROUGH DRAFT: Microbiology Practical Exam**  **\*\*\*\*THIS FORM MUST BE LEFT FOR THE INSTRUCTOR EACH DAY.**  \*\*\*\*Note: This rough draft requires only basic information. Additional interpretations, explanations and mechanisms will be required on the final write-up; see the Practical Exam Final Report sheet.  \*\*\*\*If you would like a copy to take home, either make a second copy or use your cell phone to take a picture of this form each day.  **Microscopic Morphologic Characteristics** | | | | |
| * **Gram stain reaction**:.   + Color:   + Is it gram pos or gram neg?   + Morphology:   + Arrangement:   + **Show teacher** an appropriate area of the slide.   + (On your FINAL draft, you will also discuss the stain mechanism.) | | | | |
| **Susceptibility Testing** Type of plate used: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (24 hours) Approx 10 points.  NOTE: Observe zones for lighter growth within them. Diameters of the zones of complete inhibition are measured. If there is an unusual pattern or two zone, comment on that. | | | | |
| **Symbol** | **Antibiotic Name** | **Measurement (mm)** | | **Interpretation (S, I, R)** |
| NB |  |  | |  |
| Cip |  |  | |  |
| P |  |  | |  |
| SXT |  |  | |  |
|  | | | | |

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| **\*\*\*\*\*\*\*Cultural characteristics for Nutrient, EMB & PEA:** NG, +, ++, +++, ++++ should be used for **NUMBER** of colonies not size. **Relative colony size** comparisons between Nutrient, EMB & PEA should be included to demonstrate possible inhibition of growth, etc.   * **Nutrient agar:** Streak for **isolation.** Use appropriate colony description terms (form, margin, elevation, size in mm, etc.), color-even if white, ease of growth, relative size of colonies compared to EMB & PEA.   + Describe growth characteristics at both 24 hours. Date: \_\_\_\_\_\_\_\_\_\_   + Describe growth characteristics at both 48 hours. Date: \_\_\_\_\_\_\_\_\_\_ |
| * **EMB agar** Streak for **isolation.**  **(**If both dark purple and pink/light purple colonies are present, write the summary based on the dark purple color. Dark colonies may turn pink after longer incubation.) Include observations of ease of growth, color, relative size of colonies compared to PEA & Nutrient, appropriate interpretation (what does the plate tell you about the organism).   + Describe growth characteristics at 24 hours. Date: \_\_\_\_\_\_\_\_\_\_   + Describe growth characteristics at 48 hours. Date: \_\_\_\_\_\_\_\_\_\_ Include interpretation but not mechanism. |
| * **PEA agar** Streak for **isolation**. (24 hours) Include observations of ease of growth, color, relative size of colonies compared to Nutrient & EMB, appropriate interpretation (what does the plate tell you about the organism).   + Describe growth characteristics at 24 hours. Include interpretation. Date: \_\_\_\_\_\_\_\_\_\_ |
| **Miscellaneous media/tests** For all of the remaining tubes, plates, and tests (as appropriate). For each test include the following:   1. Growth characteristics and observations 2. Test interpretation including appropriate terms 3. On your FINAL report (not this rough draft), explain or the test mechanisms and/or basis for your interpretations. |
| * **Catalase test:** List **observations & interpretation**: |
| * **OF-Glucose tubes:** Results may be compared to a set of uninnoculated tubes to determine if color change has occurred.   + List **observations & interpretation using appropriate symbols or terms** (24 hours): * **Motility tube-** read from OF-G. (24 hours) List observations & interpretation: |
| * **Starch hydrolysis**: Reaction **color and interpretation as positive or negative**, Note: Known QC organisms are available to plate if desired. (24 hours) **NOTE:** Put plate including iodine in biohazard bag. Do NOT put in storage area with rest of plates to prevent contamination by liquid spill. |
| * **TSI slant**: Results may be compared to a set of uninnoculated tubes to determine if color change has occurred. Include **colors, proper interpretation symbols (K/A…) and terms**. (48 hours) |