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|  | Experiment:  Materials-  ( Sterile agar dishes (4 per experiment)  ( Sample of a Gram-Negative agent  ( Sample of a Gram-positive agent  ( Sterile Cotton swabs  ( Wax Pencil  ( Over-the-counter anti-biotics (i.e. Neosporin, Polysporin, Bacitrin, and Triple anti-biotic cream)  Procedure-  1. Prepare the bacterial agents in a broth.  a. Pipet pellet sample into nutrient broth  b. Mix thoroughly to ensure complete disassociation.  2. Transfer culture, with sterile cotton swab, to a nutrient agar slant specific to that species of bacteria. (i.e. Tryptic Soy agar: Streptococcus Lactis)  3. Allow a few days to establish a strong colony.  4. Transfer the bacterial samples, once again, with sterile cotton swabs from the nutrient agar slants onto the sterile petri dishes filled with agar.  5. Divide up 2 of the petri dishes into 4 quarters, and assign each quadrant to a different brand of anit-biotic. (Note: Position is relatively unimportant, however remembering which quadrant contains which brand will be very significant.)  6. Label these two petri dishes "Gram Positive" and "Gram negative" corresponding to the nature of bacteria that the dish contains.  7. Repeat STEP FOUR ONLY to the remaining two petri dishes. Label these dishes "Gram Positive/Control" and "Gram Negative/Control" respectively. (Note: You will not add any anti-biotic to these "control" dishes")  8. Allow approximately two weeks for colony growth, or non-growth, and observe the different affects of the anti-biotics. |

*This Web Site is Best viewed with 256 or more colors.*

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