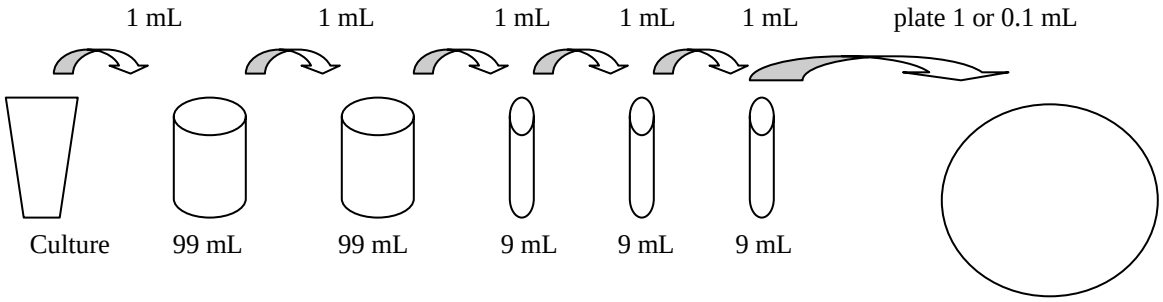
Bio 139 Microbiology: Serial dilutions Lab #11

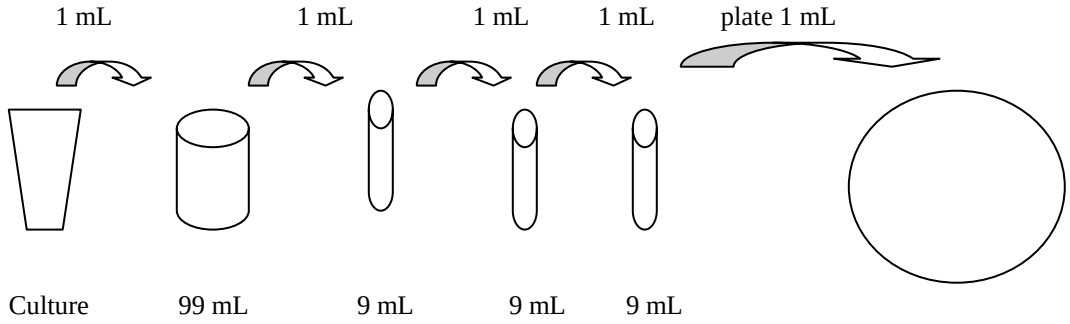


Plated 1 mL; counted 210 colonies. CFU of culture: _____

Plated 1 mL; counted 35 colonies. CFU of culture: _____

Plated 0.1 mL; counted 35 colonies. CFU of culture: _____

Plated 1 mL; counted 8 colonies. CFU of culture: _____



150 colonies = _____ CFU

42 colonies = _____ CFU

To make 1 L of 1.5% agar.
How much agar? _____ grams

To make 500 mL of 0.5% yeast extract.
How much yeast extract? _____grams

To make 75 mL of 1% tryptone.
How much tryptone? _____ grams

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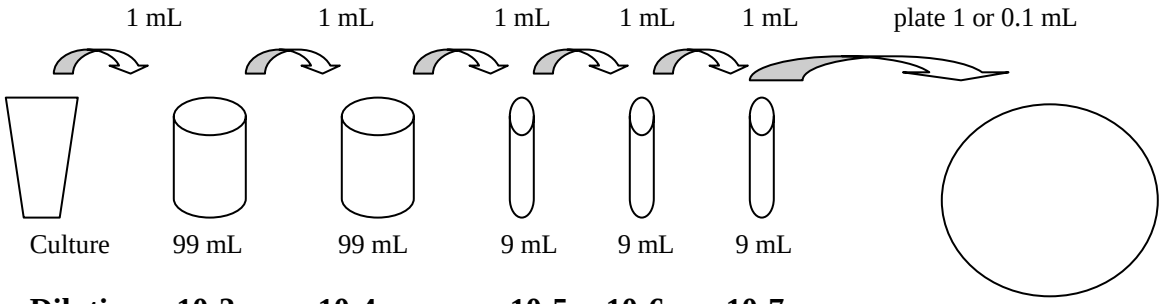


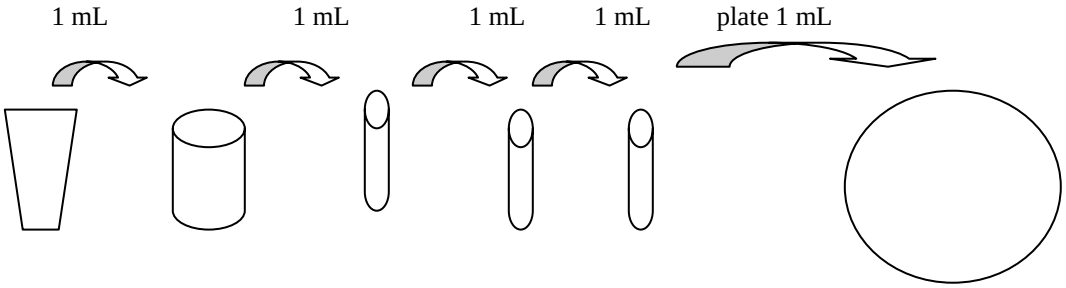
Dilution: 10-2 10-4 10-5 10-6 10-7

Plated 1 mL; counted 210 colonies. CFU of culture: **2.1×10^9** **{ 210×10^7 }**

Plated 1 mL; counted 35 colonies. CFU of culture: **3.5×10^8** **{ 35×10^7 }**

Plated 0.1 mL; counted 35 colonies. CFU of culture: **3.5×10^9** **{ 350×10^7 }**

Plated 1 mL; counted 8 colonies. CFU of culture: **too few to count**



Dilution 10-2 10-3 10-4 10-5

150 colonies = **1.5×10^7** CFU **{ 150×10^5 }**

42 colonies = **4.2×10^6** CFU **{ 42×10^5 }**

To make 1 L of 1.5% agar.

How much agar? **15** grams

To make 500 mL of 0.5% yeast extract.

How much yeast extract? **2.5** grams

To make 75 mL of 1% tryptone.

How much tryptone? **0.75** grams