

Bio 139 Microbiology Lab #2: Metric conversion exercise.

Fill in the blanks, or the missing exponents or units.

1. 1 cm =            m =            mm =            microns ( $\mu$ )

2. 5 mm =            cm

3. 2 cm =            mm

4. 1 mm =             $\mu$

5. 50  $\mu$  =            mm

6. 300 nm =             $\mu$  =    3 x 10   mm

7. 5 nm =             $\mu$  =    5 x 10    $\mu$

8.  $6 \times 10^{-8}$  m =    60

9.  $4 \times 10^{-6}$  m =             $\mu$

10. 320  $\mu$  =            mm

11. 1250 nm =             $\mu$

For #12-15, use the conversion table in your lab manual:

12. 45 °F =            °C

16. What is the boiling point of water?

13. 18 °C =            °F

17. What is the freezing point of water?

14. 70 °C =            °F

18. What is human body temperature?

15. 42 °C =            °F

{**Memorize #16-18 in °F and °C**}

To prepare 500 mL of 1% glucose you need:            g of glucose

To prepare 2 L of 0.5% yeast extract you need:            g of yeast extract

To prepare 300 mL of 1.5% agar you need:            g of agar