

Homework November 4, 2017

Biochemical lab. Please, read the posted 11/04/2017 class work for reference.

Simple dilutions.

1. The lab has 5M NaCl solution. We need to make:

A) 1 l of 1M NaCl, add:

5M NaCl _____ ml

Water _____ ml

B) 0.3 l of 1M NaCl, add:

5M NaCl _____ ml

Water _____ ml

C) 200 ml of of 0.5M NaCl, add:

5M NaCl _____ ml

Water _____ ml

D) 2 l of 0.3M NaCl, add:

5M NaCl _____ ml

Water _____ ml

C) 200 ml of of 1.5M NaCl, add:

5M NaCl _____ ml

Water _____ ml

D) 74 ml of 0.14M NaCl, add:

5M NaCl _____ ml

Water _____ ml

2. In the lab there are solutions:

- a) 1M TrisHCL, pH7.5
- b) 5M NaCl
- c) 0.5M MgSO₄
- d) 1M EDTA

1. We need to make **1 liter** of buffer containing final concentrations:

30mM TrisHCL, pH7.5

600 mM NaCl

5 mM MgSO₄

0.5 mM EDTA

How much of each component should we add?

- a) _____ml
- b) _____ml
- c) _____ml
- d) _____ml
- e) Water _____ml