Contents

1 Lab 1

1.1 Experimental Setup

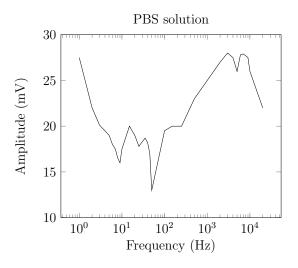
Procedure

- 1.
- 2.
- 3.

Variables

- 1. Voltage on function generator: 10V. (control)
- 2. Probes 180° from each other. Sense leads 30° from the probe; 180° from each other (control)
- 3. Gain $\frac{15k}{150} = 100 \text{ (control)}$
- 4. liquid volume 250 ml, 60mm height measured from inside the cup(control)
- 5. Frequency (independent)
- $6.\ \ Voltage\ peak-to-peak\ (dependent)$

1.2 Raw data



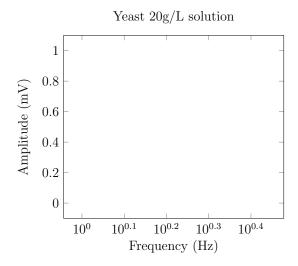


Figure 1: Amplitude based on frequency. Notice the dip at 50 Hz due to the filter.

Figure 2:

1.3 Analysis

PBS numbers must be compared to yeast to tell us something meaningful regarding the frequency. At the moment, there is not much we can do.

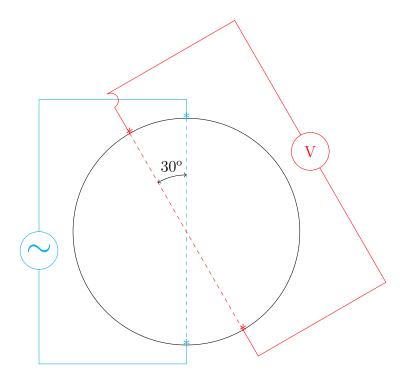


Figure 3: Orientation of electrodes

2 Lab 2

- 1. Amplitude vs Frequency: 20g/l solution
- 2. Calibrate amplitude with yeast solutions (1%, 2%, 4%, 10%, 20%)

3 Lab 3