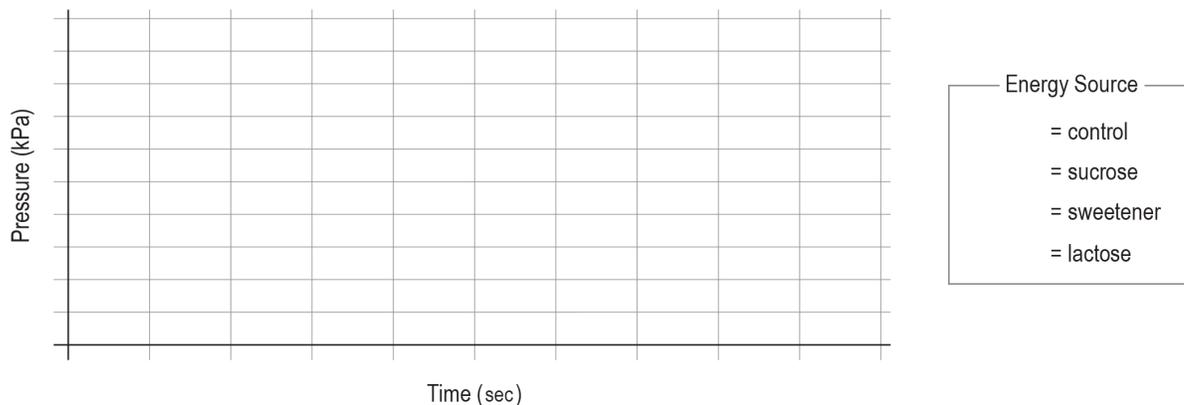


## 22B – RESPIRATION AND ENERGY

## Analysis

**Graph 1 – Yeast respiration results**

1. Use SPARKvue to determine the change in pressure over 5 minutes for each trial.
2. The respiration rate is calculated as a change in pressure over time (kPa/sec). Calculate the respiration rate for each trial and record the results in Table 1.

**Table 1: Respiration rates**

Trial #	Energy source	Change in Pressure (kPa)	Change in Time (sec)	Respiration rate (kPa/sec)
1	None (control)		300	
2	Sucrose		300	
3	Artificial sweetener		300	
4	Lactose		300	

## Questions

1. Write the balanced reaction for respiration. Which part of the reaction allows you to measure the change in pressure?

