**Lactase Lab – Sample Data**

**Manipulated Variable: Temperature**

This is data for a group that was investigating whether or not temperature affected the production of glucose when lactase was added to milk. One sample of lactase enzyme solution was exposed to freezing (0°C) temperature and then thawed to room temp. One sample of lactase enzyme solution was exposed to boiling (100°C) temperature and then cooled to room temp. One sample of lactase enzyme solution was exposed to just room temperature (17°C).

Boiling Lactase Enzyme + Milk

Trial 1: 0mg/dL glucose

Trial 2: 0mg/dL glucose

Trial 3: 0mg/dL glucose

Room Temperature Lactase Enzyme + Milk

Trial 1: 500 mg/dL glucose

Trial 2: 250 mg/dL glucose

Trial 3: 500 mg/dL glucose

Freezing Lactase Enzyme + Milk

Trial 1: 0mg/dL glucose

Trial 2: 0mg/dL glucose

Trial 3: 0mg/dL glucose

**Manipulated Variable: pH**

This is data for a group that was investigating whether or not pH affected the production of glucose when lactase was added to milk. One sample of lactase enzyme solution was exposed to an acidic (pH2) solution. One sample of lactase enzyme solution was exposed to neutral (pH7) solution. One sample of lactase enzyme solution was exposed to a basic (pH10) solution.

pH2 Lactase Enzyme + Milk

Trial 1: 250 mg/dL glucose

Trial 2: 0 mg/dL glucose

Trial 3: 0 mg/dL glucose

pH7 Lactase Enzyme + Milk

Trial 1: 500 mg/dL glucose

Trial 2: 500 mg/dL glucose

Trial 3: 250 mg/dL glucose

pH10 Lactase Enzyme + Milk

Trial 1: 0mg/dL glucose

Trial 2: 0mg/dL glucose

Trial 3: 0mg/dL glucose