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BIOL-1015-03

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Lab 7 Word Doc

Bacillus subtilis (B. Sub)

Image:

A picture containing text, map

Description automatically generated

Fact: The presence of B. Sub in the human body improves digestive health and immune system functions.

Figure 1. shows the results of various treatments on selected bacteria species. This data is based on the “For Analaysis group 1.csv” file.

Chart, bar chart

Description automatically generated

Takeaway: B. sub, E.col, and S. mar seem to have greater growth reactions than the other bacteria. S. mar had the greatest growth under the LB treatment.

Figure 2. shows the results of various treatments on selected bacteria species. This data is based on the “Apply Data needs more arranging.csv” file.

Chart, bar chart

Description automatically generated

Takeaway: B. sub, E.col, S. epi, and S. mar seem to have greater growth reactions than the other bacteria. Compared to our first graph, S. epi had a much greater growth reaction.

Are there any differences in the data sets? Especially the controls. Why may there be differences? Which experiment do you “trust” and which is suspicious?

The B. sub and S. epi in the second set of data had a much greater growth reaction that the B. sub and S. epi in the first set of data. This may be due to human error or due to the starting number of bacteria not being equal. Additionally, the control group in the second set reacted to the LB treatment, which is suspicious because the control group should not have any reaction. As a result, I would trust the first experiment.