

Julia Ludwig

*The Effect of Allium sativum on E. coli*

My project has to deal with using E. coli and garlic together to see the growth difference. It is interesting because I love garlic a lot and it helps your immune system and the E. coli was something that came to mind and I loved the idea to have two very unlike things collide. I thought the 40% solution of garlic extract and light olive oil would be best because it has plenty of garlic and oil but not too much of each. We took the Petri dishes and cleaned and sterilized them. We let dry and put on safety equipment. We spread the oil by smallest solution upward on the agar which is in the Petri dishes. Then we put the E. coli on the solution of each dishes. We let sit 48 hours and then recorded what happened. I found out that after the experiment the 80% solution had come out to have the most E. coli growth which was 716 square millimeters as an average while the least amount was the 20% solution which was 305.3 square millimeters. I do not think that the consistency with my hypothesis was good. I would think that more oil, the more growth but no too much oil. This is very interesting because it shows a use of a simple cooking material and a harmful bacteria that can make you severely sick or mildly.