

# [5sec rule exp report](https://assignbuster.com/5sec-rule-exp-report/)

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Section: Bio 100 5 Second Rule Experiment Second Week Introduction 5 second rule experiment second week is an experiment carried out to determine the extent of reproduction and consequent level of threat bacteria cause on nutrients agar and blood agar. This experiment aims at testing the hypothesis   
Materials and methods   
Nutrient agar right half, nutrient agar left half, blood agar right half, bologna, gummy bear, blood agar left half, nutrients agar control and blood agar control were used in this experiment. The experiment was done in five seconds intervals and them measurements were done on the samples to ascertain the level of bacteria in them, type of colony formed and how fatal are the threats they pose.   
Results   
PLATE   
TOTAL COLONIES   
# OF DIFFERENT COLONY TYPES BASED ON MORPHOLOGY   
ADDITIONAL RESULTS MORPHOLOGICAL TYPES AND GROWTH PATTERNS (I. E HEMOLYSIS)   
Nutrients agar right half   
Bear gummy   
70% of slide is covered   
Lobate circular punctiform   
Raised and rough   
Nutrients agar left half   
Bologna   
70% of slide is covered   
Irregular lobate punctiform   
Raised and rough   
Blood agar right half   
Gummy bear   
90% of slide is covered   
raised circular irregular   
Beta hemolytic 60% see through   
Blood agar left half   
Bologna   
95% of slide is covered   
Raised lobate circular   
Beta hemolytic 45% see through   
Nutrients agar control   
Gummy bear 0   
Bologna 2   
Gummy bear N/A   
Bologna circular   
Raised   
Smooth   
Blood agar control   
Gummy 0   
Bologna 3   
Gummy N/A   
Bologna circular punctiform   
Gamma hemolytic   
Discussion   
In nutrients agar bacteria multiply and cover 70% of the slide forming lobate circular punctiform with a raised and rough pattern. In blood agar along gummy bear they multiply and fill 90% of the slide forming a raised circular irregular colony with a complete hemolytic 60% see through unlike in blood agar along bologna where they fill 95% of the slide forming a raised lobate circular colony with a complete hemolytic 45% see . A control experiment is used for standardization . In conclusion bacteria reproduce well in blood agar and produce more toxic substances than in nutrients agar within a given time.   
References   
Zeller, Nancy. Great Experiments in Biology. 2012. University Readers, Inc.