



# Measuring Soil Microbial Activity with Bromothymol Blue

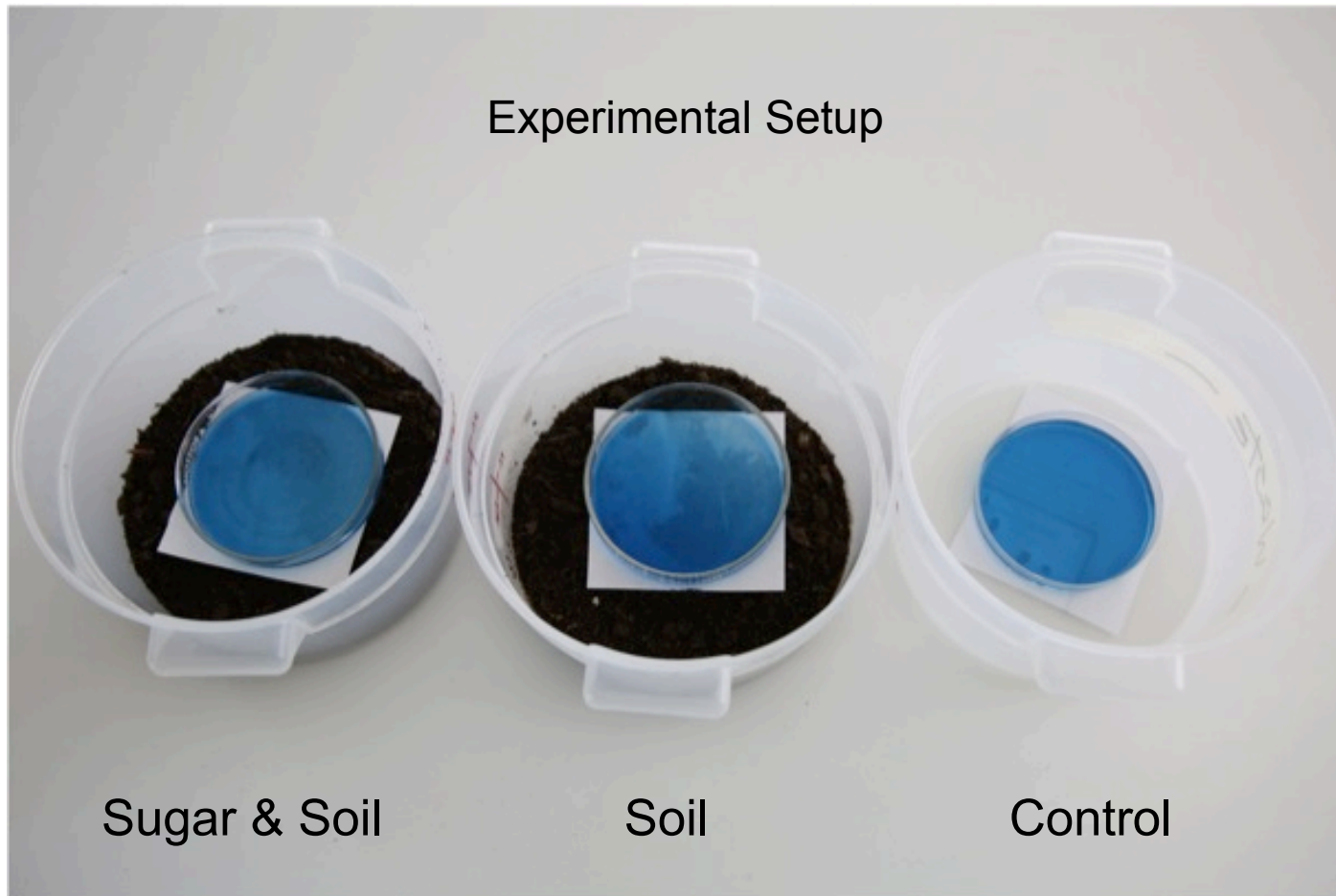
Great Lakes Bioenergy Research Center  
Education and Outreach

# Possible BTB Colors



# PREDICT

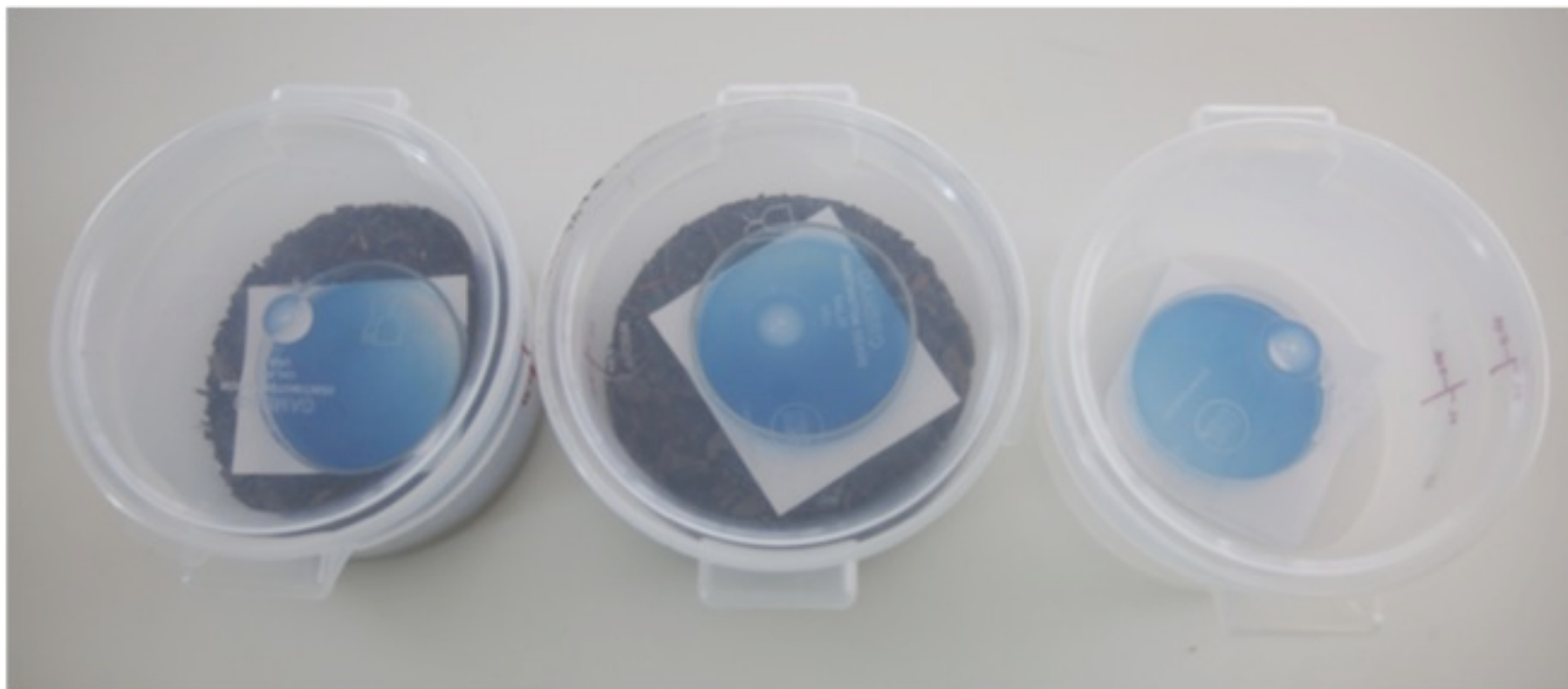
**What differences, if any, do you expect in color between the three containers after 24 hours?**



# EXPLAIN

**Why? Explain the reasoning behind your prediction.**

Cover the containers to create a closed system.



Let sit for 24 hours.



# OBSERVE

Describe the observed differences in color after 24 hours



After 24 hours

# EXPLAIN

**Do these results match what you predicted? Why or why not? What do you think caused these differences?**