



**Worksheet 2: Antibiotic testing results**

# Microbiology: Discovering antibacterial agents

1. Fill out table 1 for the antibiotics you will be using.

<b>Antibiotic</b>	<b>Spectrum (G+ or G-)</b>	<b>Mechanism of action</b>

Table 1



2. Fill out table 2 with your results.

Antibiotic	Concentration	Effect on G+ (inhibition zone in cm)	Effect on G- (inhibition zone in cm)

Table 2

3. Compare your results with the other groups. Are the inhibition zones similar?

---



---



---

4. What difference did the concentration make?

---



---



---

5. How does your starting concentration of one tablet in 200 ml compare with a medical dose of one pill dissolved in the water in a human body (students can look up how much water is typically found in the body)?

Concentration in starting solution (mg/ml): \_\_\_\_\_

Approximate concentration in an average body after taking the pill, assuming all the drug is absorbed (mg/ml): \_\_\_\_\_