

LABORATORY

PHYSICS OF SOUND WAVES

OBJECTIVES

1. To determine the speed of sound in air.
2. To determine the wavelength of sound waves.
3. To determine the frequency of sound waves.



PROCEDURE

1. The resonance tube is partially filled with water.
2. The tuning fork is held over the open top of the tube.
3. The water level is adjusted until resonance is observed.
4. The length of the air column is measured.
5. The frequency of the tuning fork is noted.

RESULTS

The speed of sound in air is found to be _____ m/s.

CONCLUSION

The speed of sound in air is found to be _____ m/s.