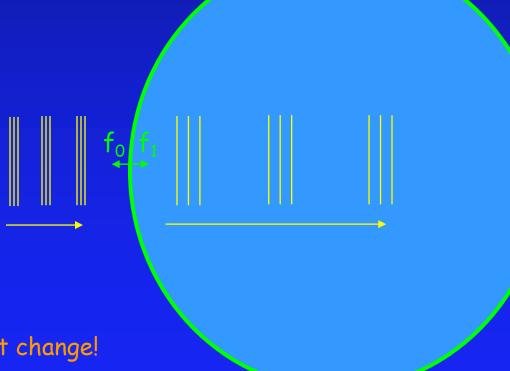
Frequency ACT

A sound wave having frequency f_0 , speed v_0 and wavelength λ_0 , is traveling through air when in encounters a large helium-filled balloon. Inside the balloon the frequency of the wave is f_1 , its speed is v_1 , and its wavelength is λ_1 Compare the frequency of the sound wave inside and outside the balloon

1.
$$f_1 < f_0$$

2.
$$f_1 = f_0$$
 correct

3.
$$f_1 > f_0$$



Time between wave peaks does not change!