10.15. An autoclave malfunctions, and the temperature reaches only 119.5°C. The sterilization time at the maximum temperature was 20 min. The jar contains 10 l of complex medium that has 10^5 spores/l. At 121°C $k_d = 1.0$ min^{-1} and $E_{0d} = 90$ kcal/g-mol. What is the probability that the medium was sterile?