**log(Posterior Probability): −2876.1409406978**
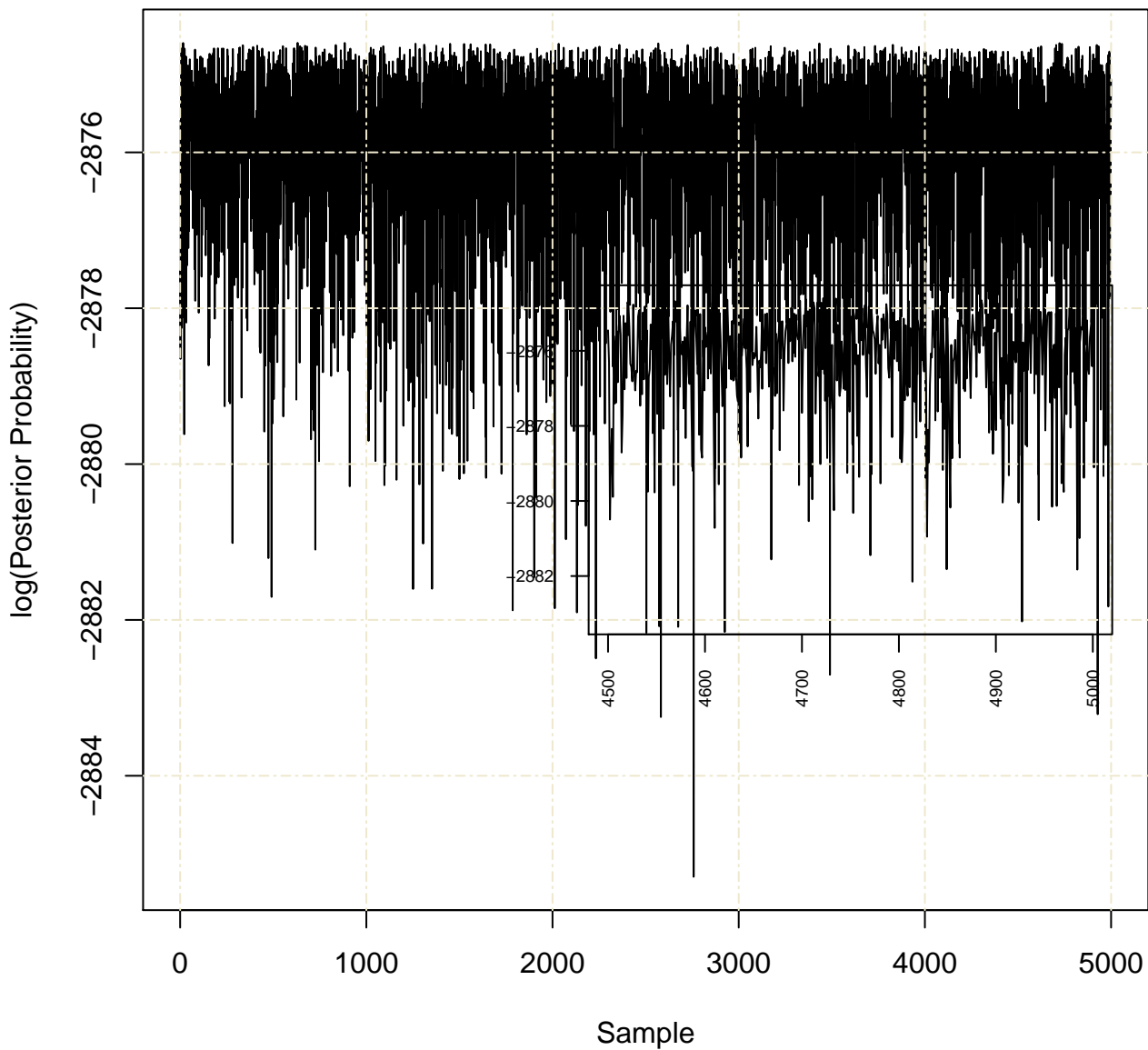
# Trace of the Expected value of $\phi$