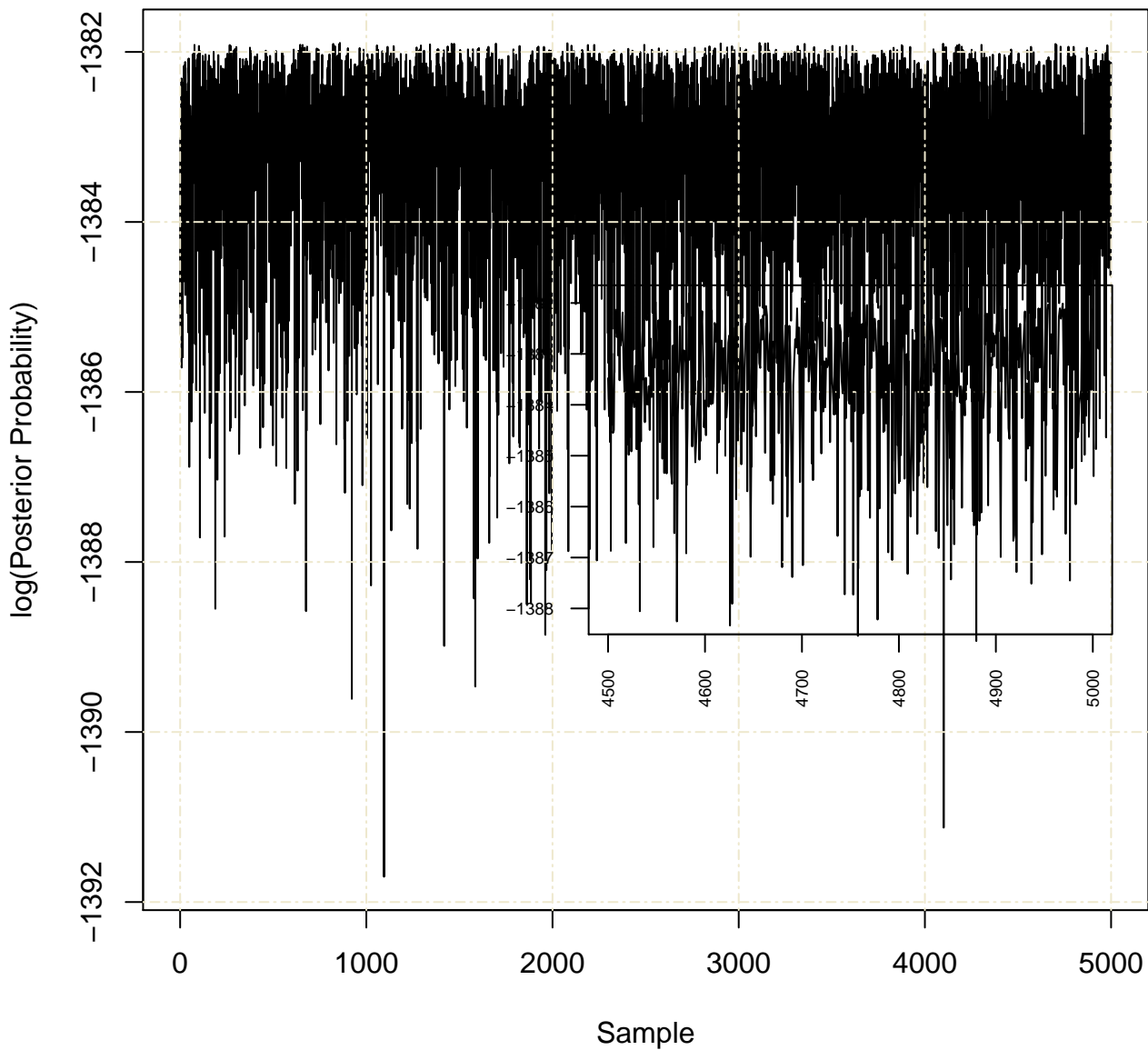**log(Posterior Probability): −1383.37182939807**

Trace of the Expected value of ϕ