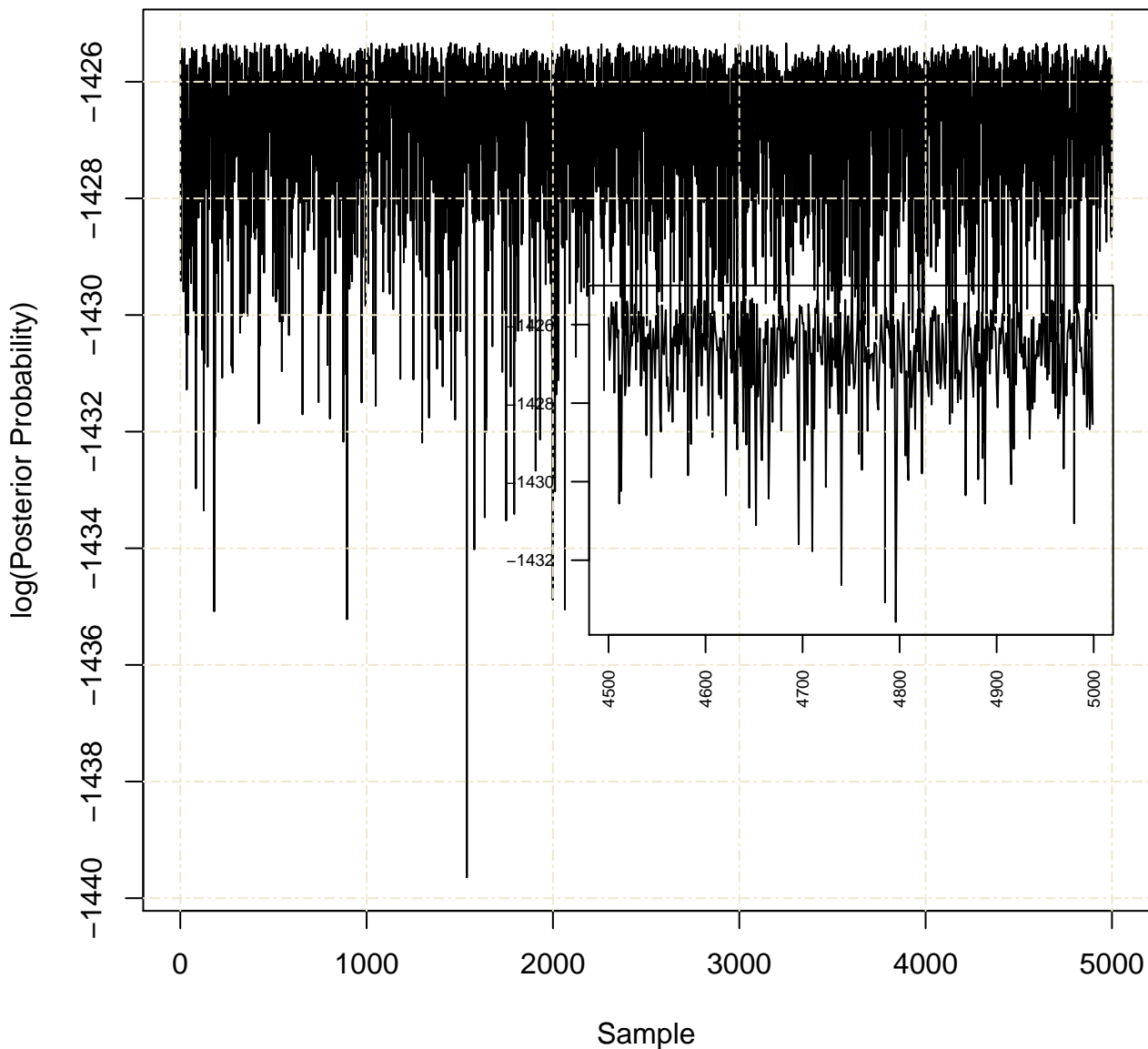**log(Posterior Probability): −1426.78833544871**

Trace of the Expected value of ϕ