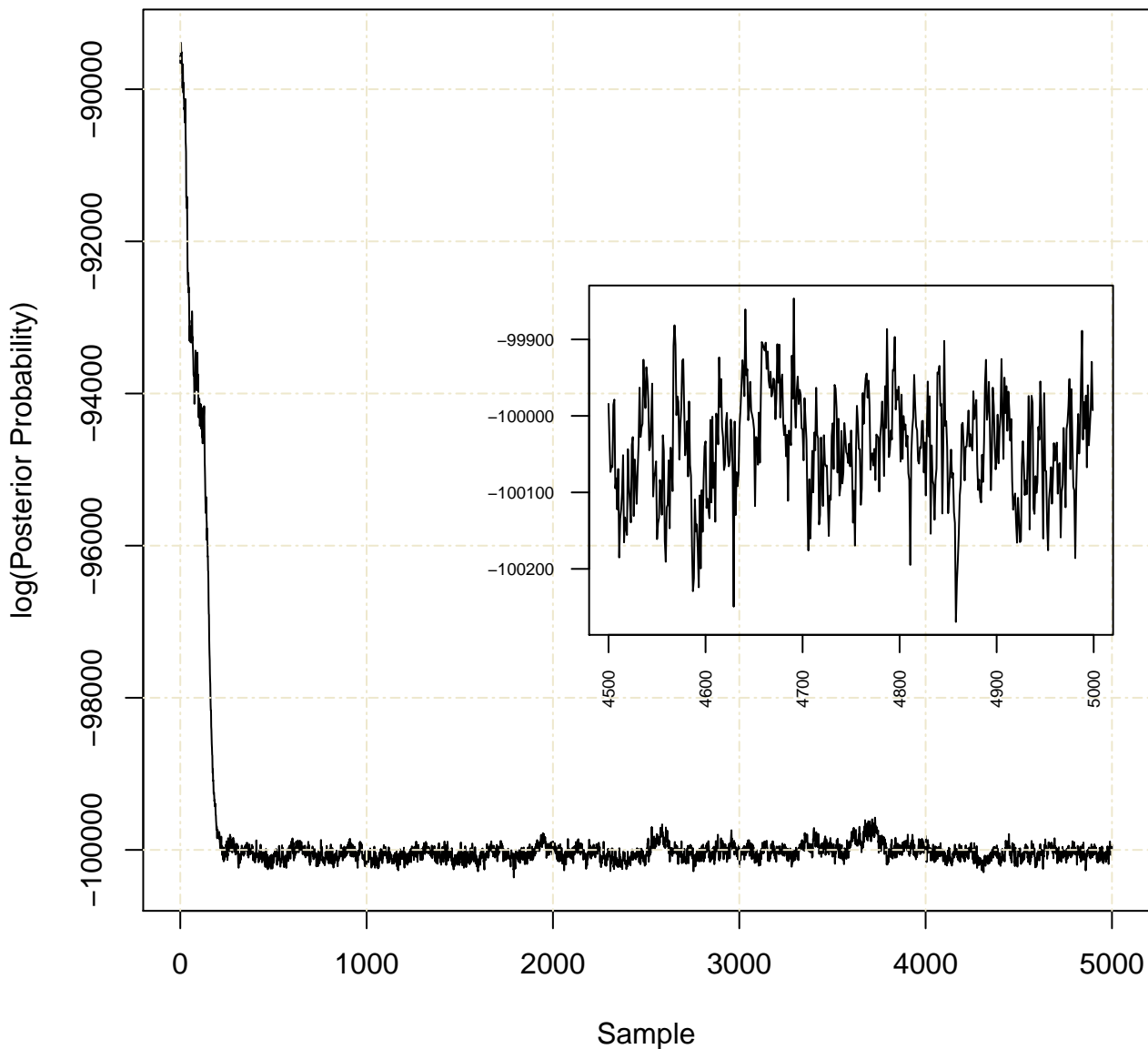**log(Posterior Probability): −100040.194692247**

Trace of the Expected value of ϕ