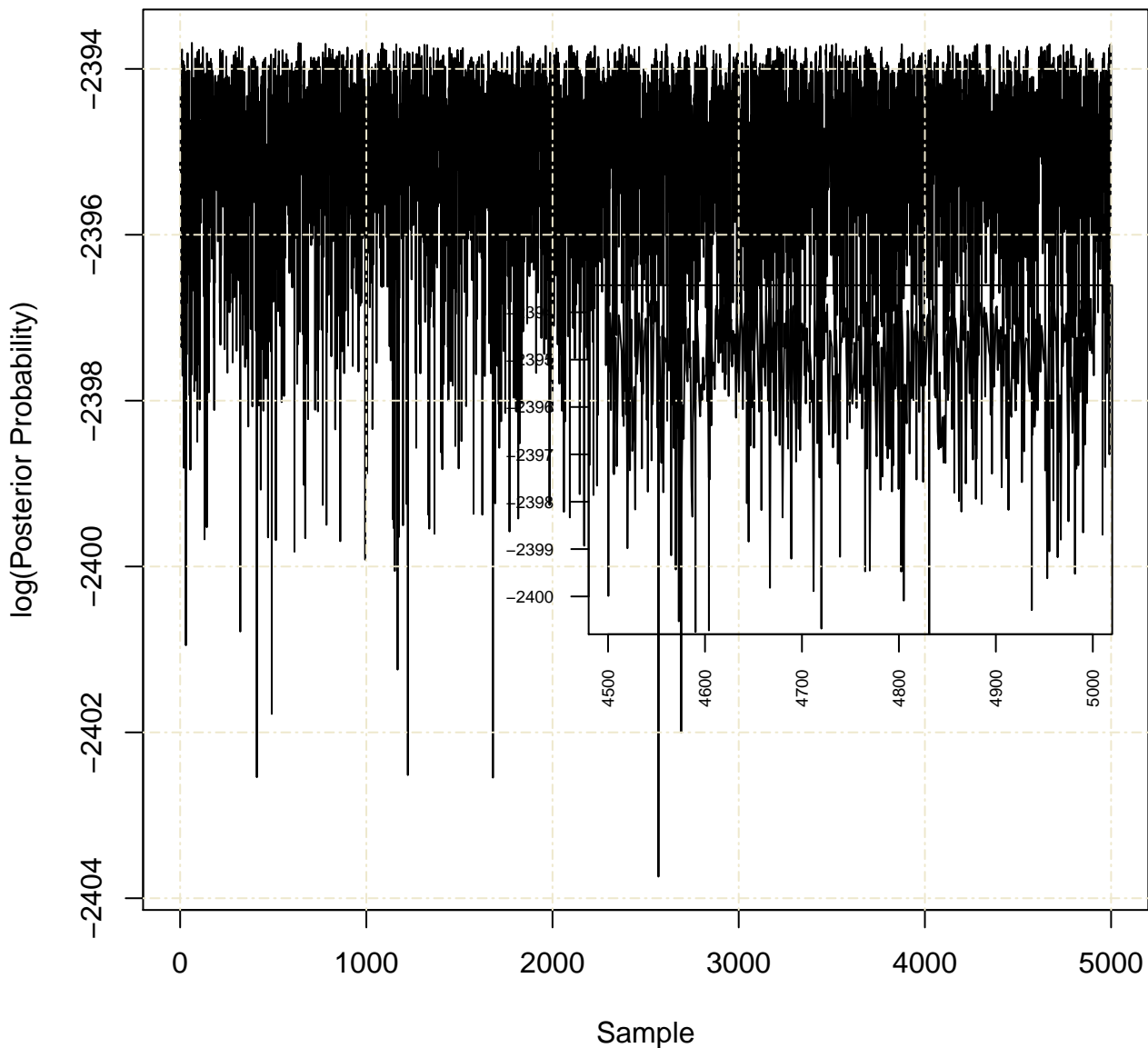**log(Posterior Probability): −2395.11683273223**

Trace of the Expected value of ϕ