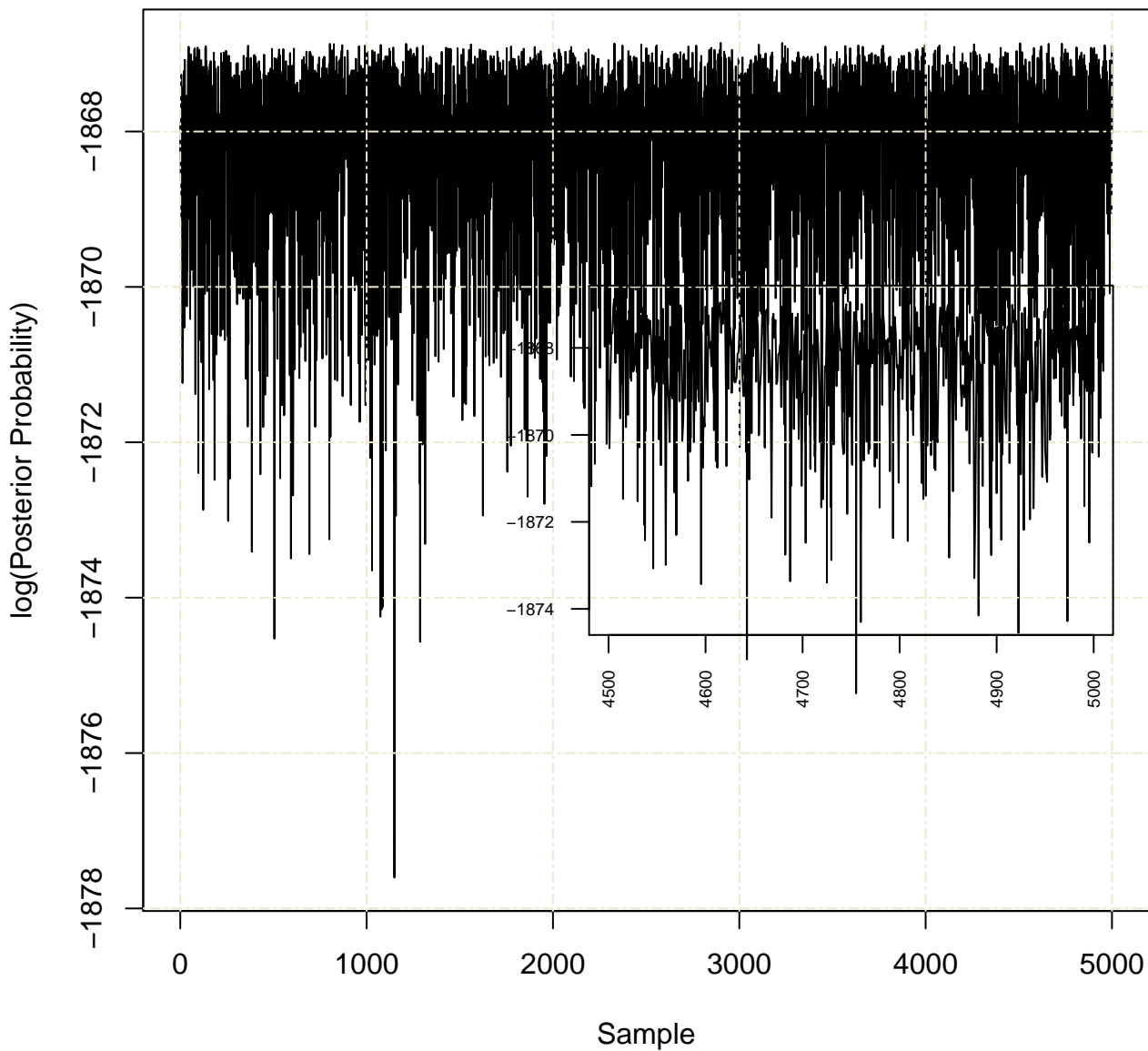**log(Posterior Probability): −1868.32385894346**

Trace of the Expected value of ϕ