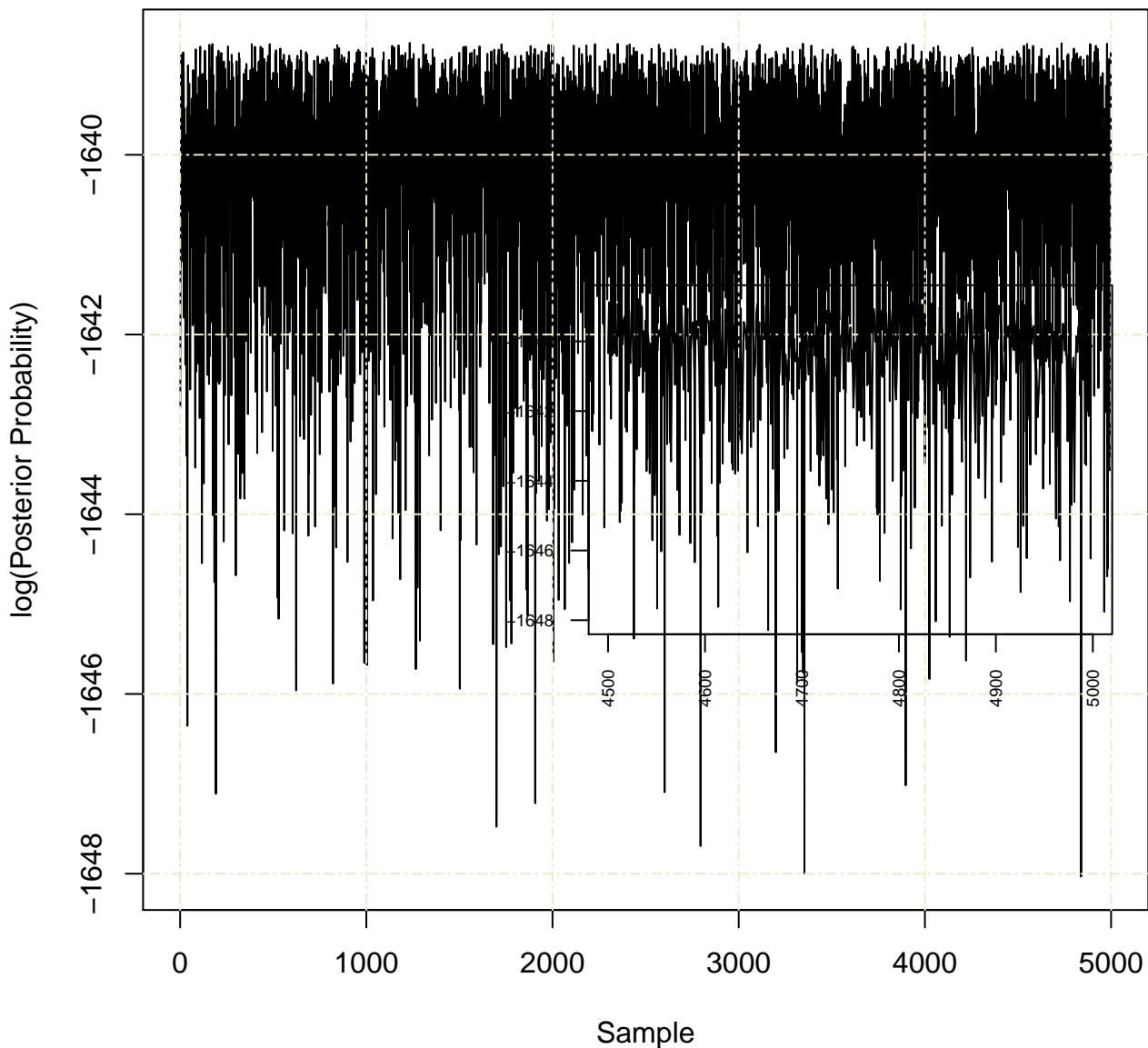**log(Posterior Probability): −1640.26861744145**

Trace of the Expected value of ϕ