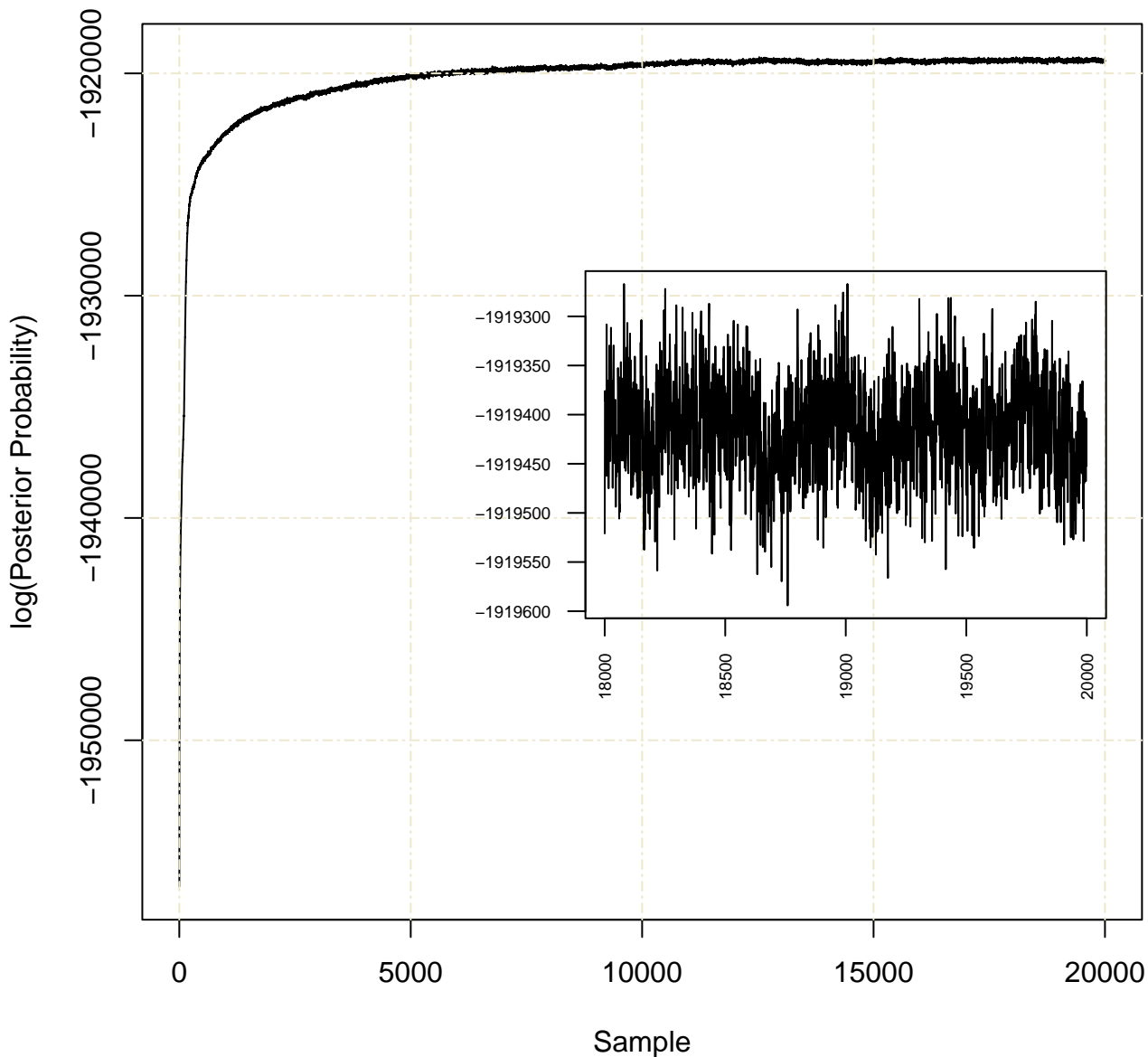
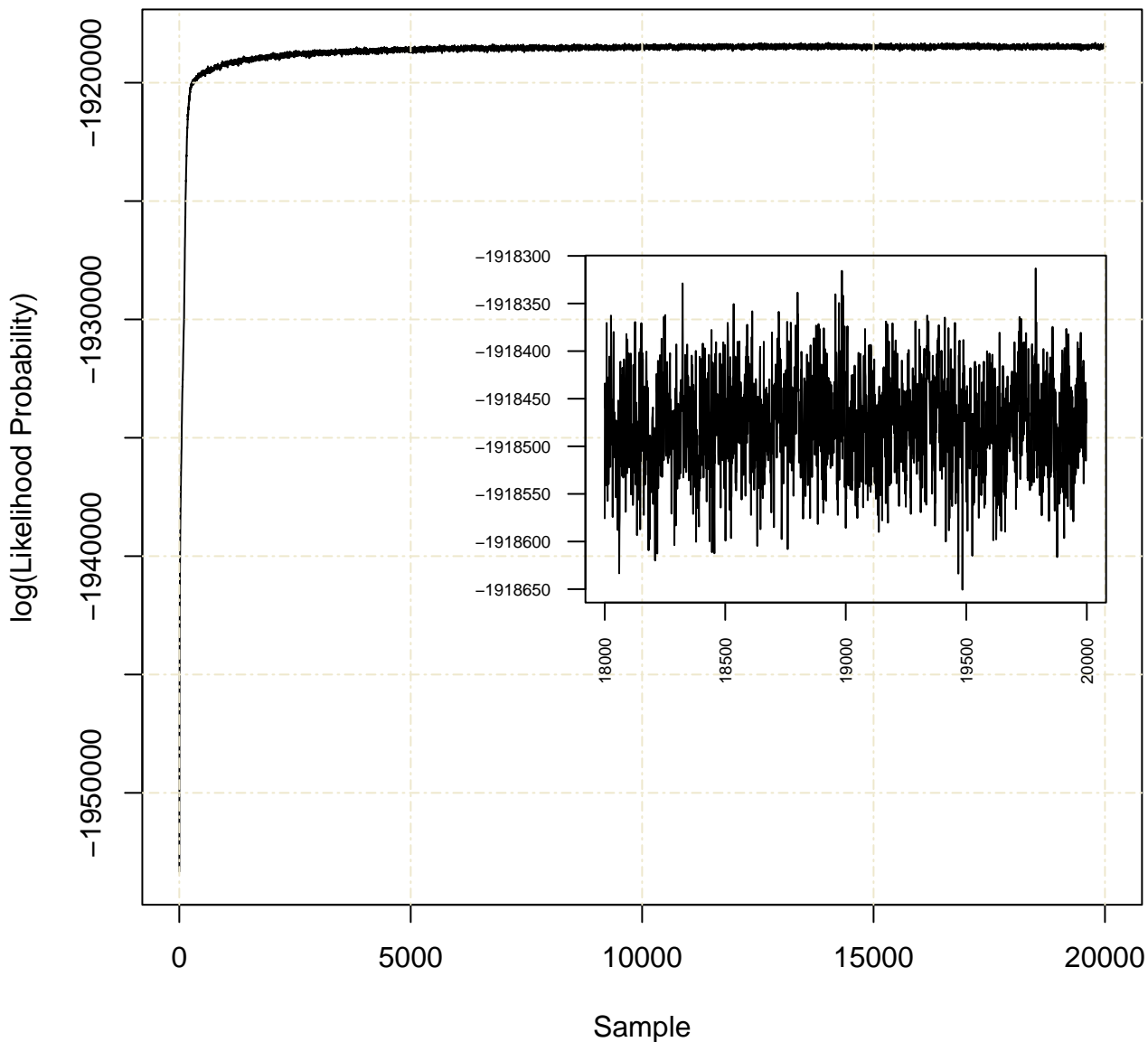


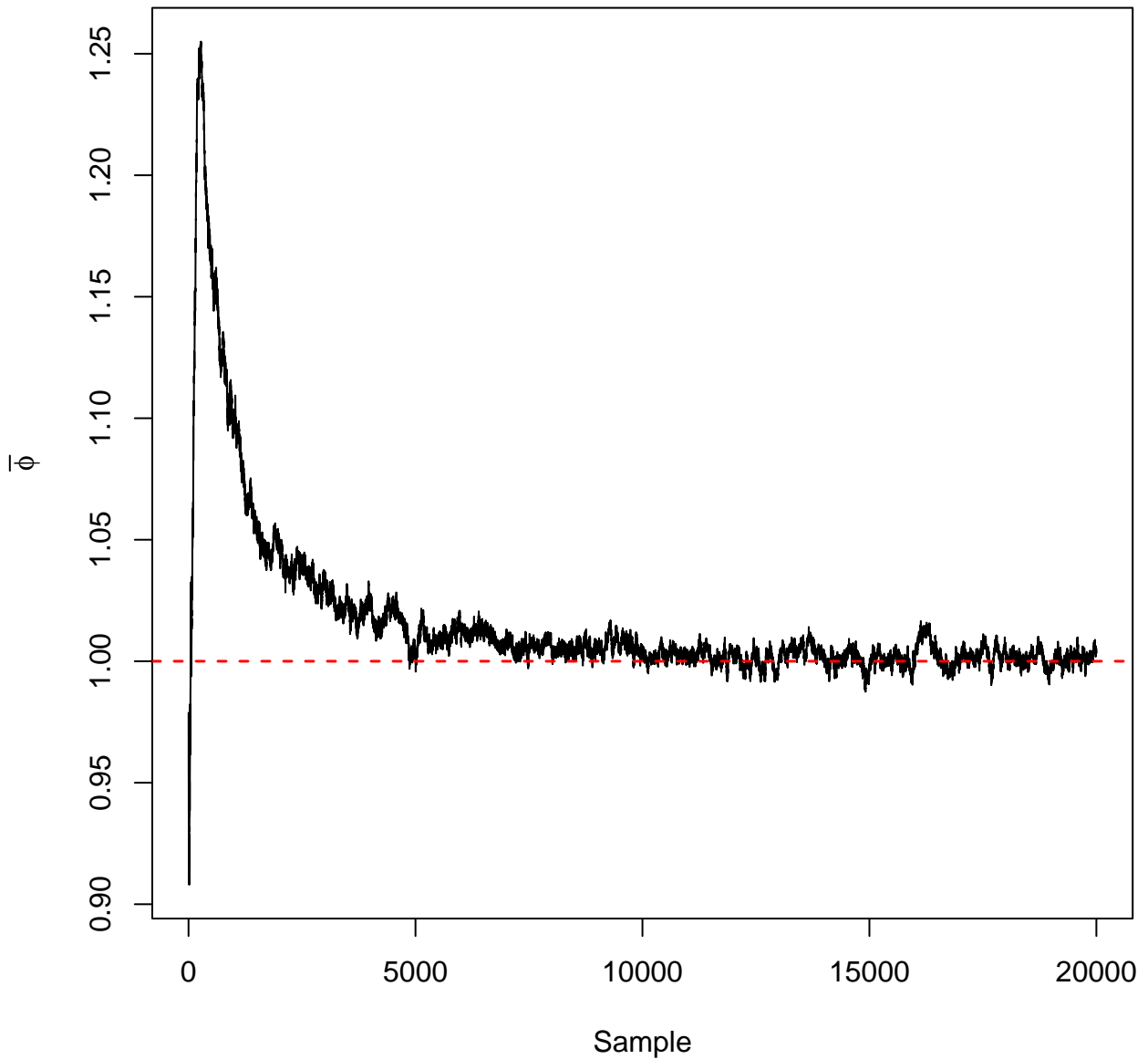
**log(Posterior Probability): -1919415.99573133**



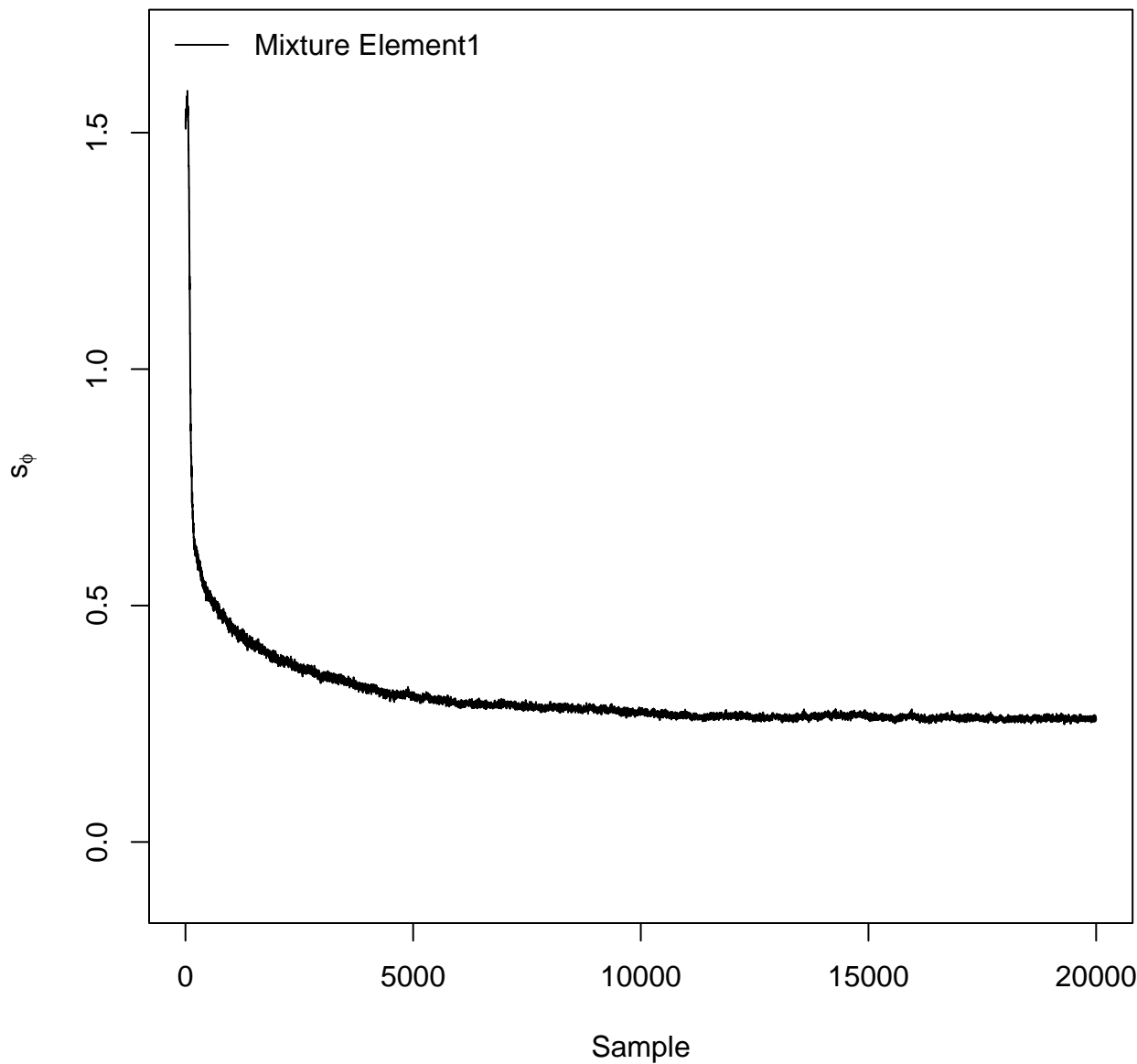
**log(Likelihood Probability): -1918476.39758264**



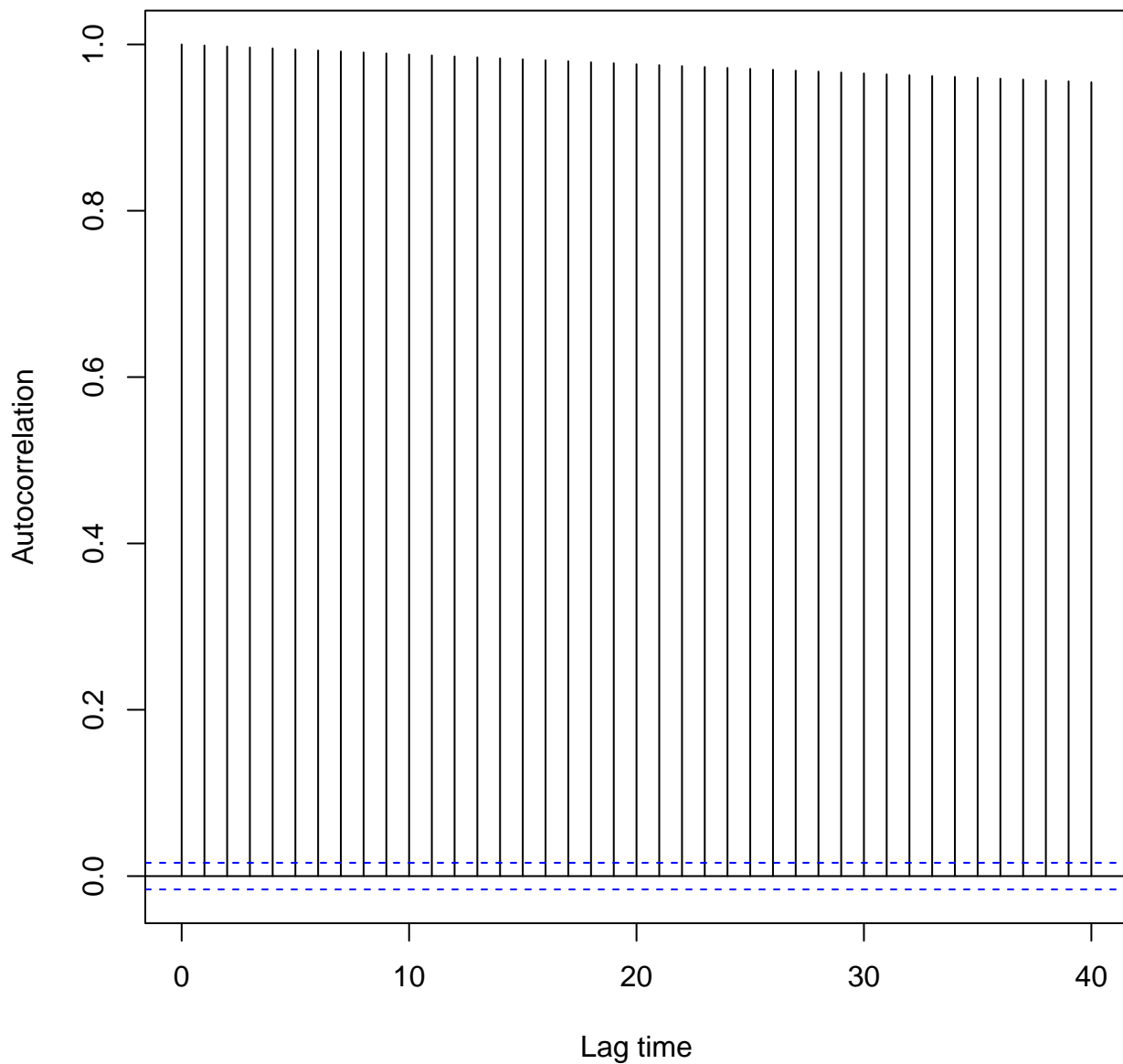
Trace of the Expected value of  $\phi$



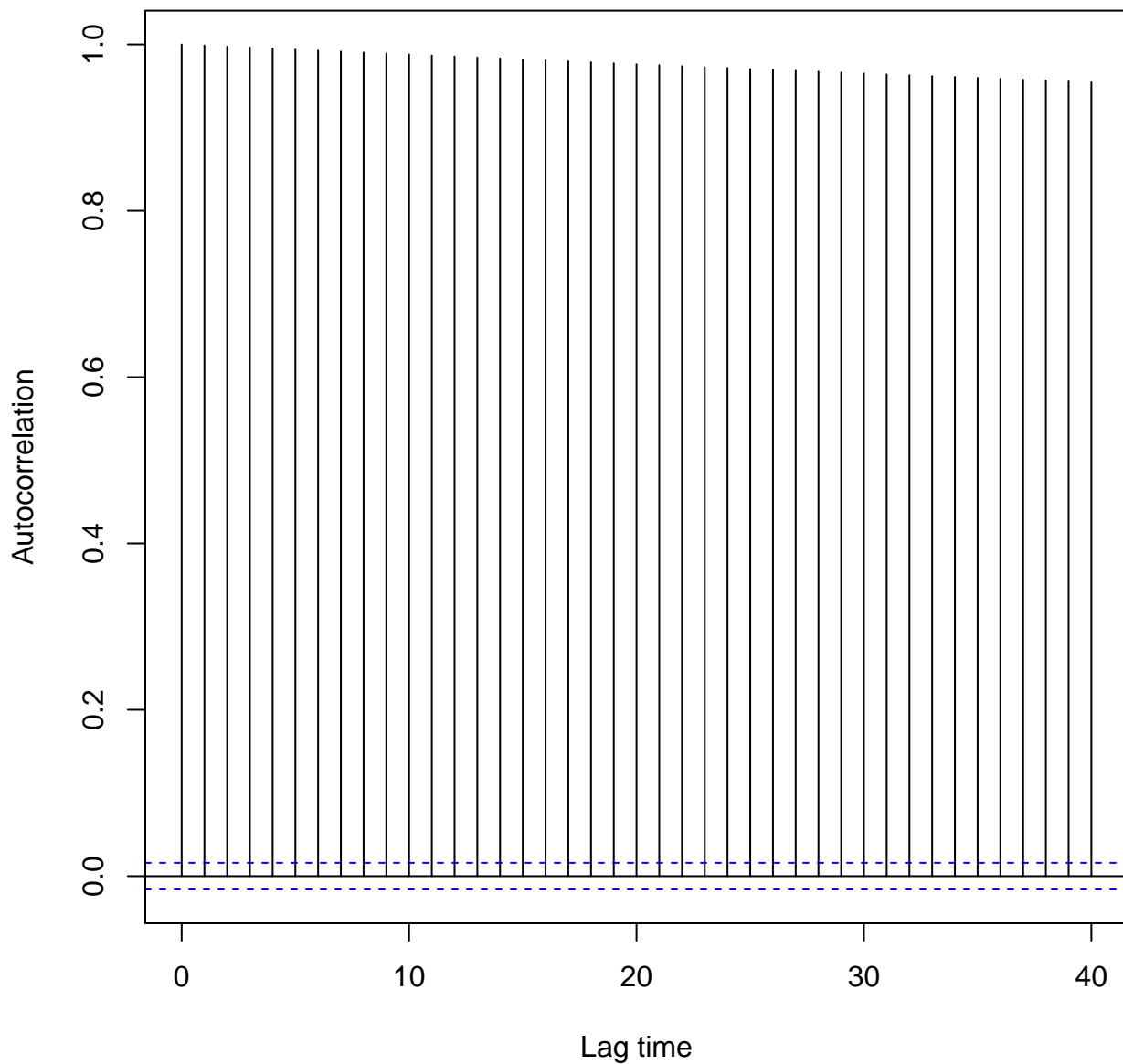
$s_\phi$  Trace



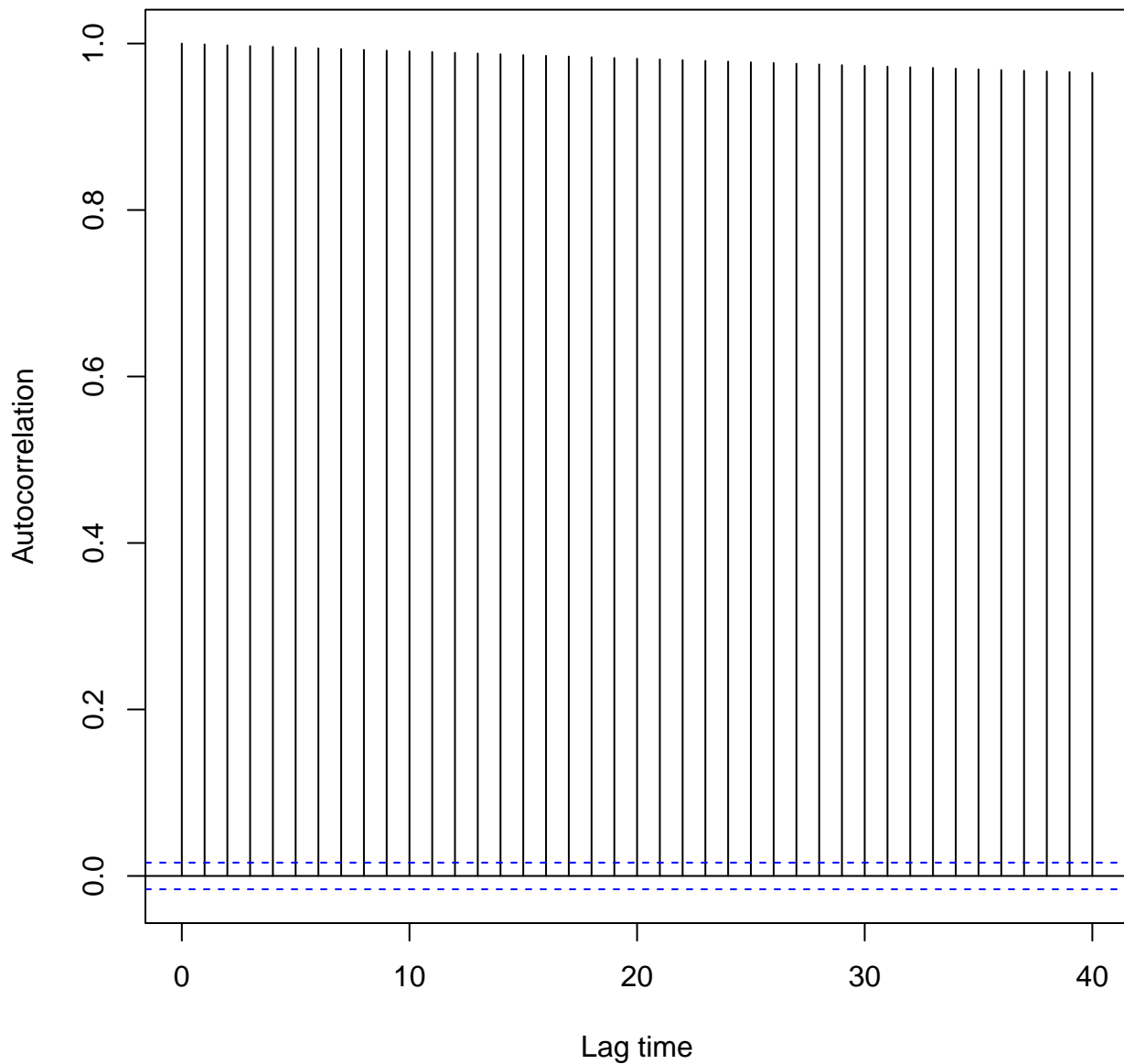
# Selection A GCA Mixture: 1



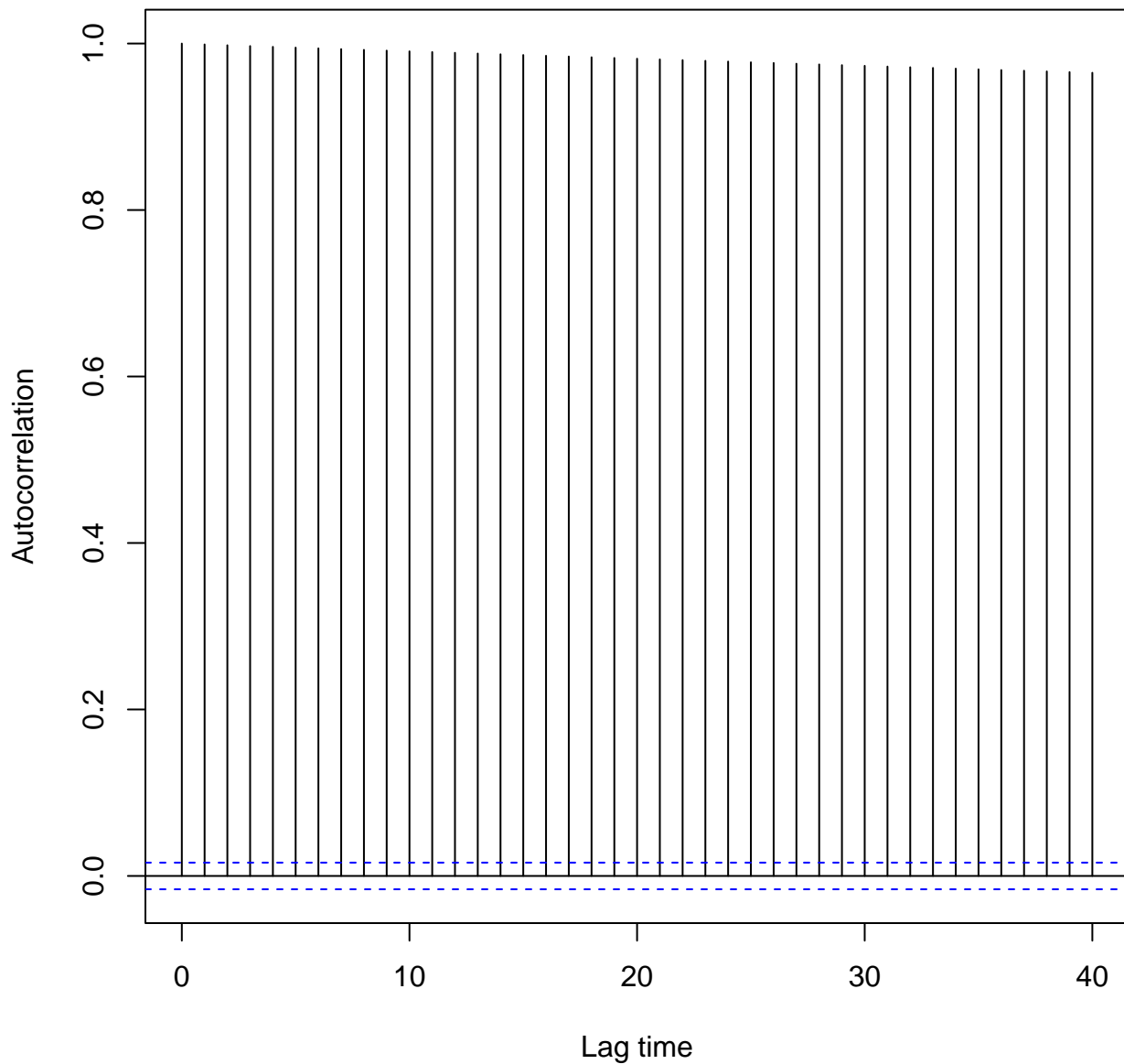
## Selection A GCA Mixture: 2



# Selection A GCC Mixture: 1

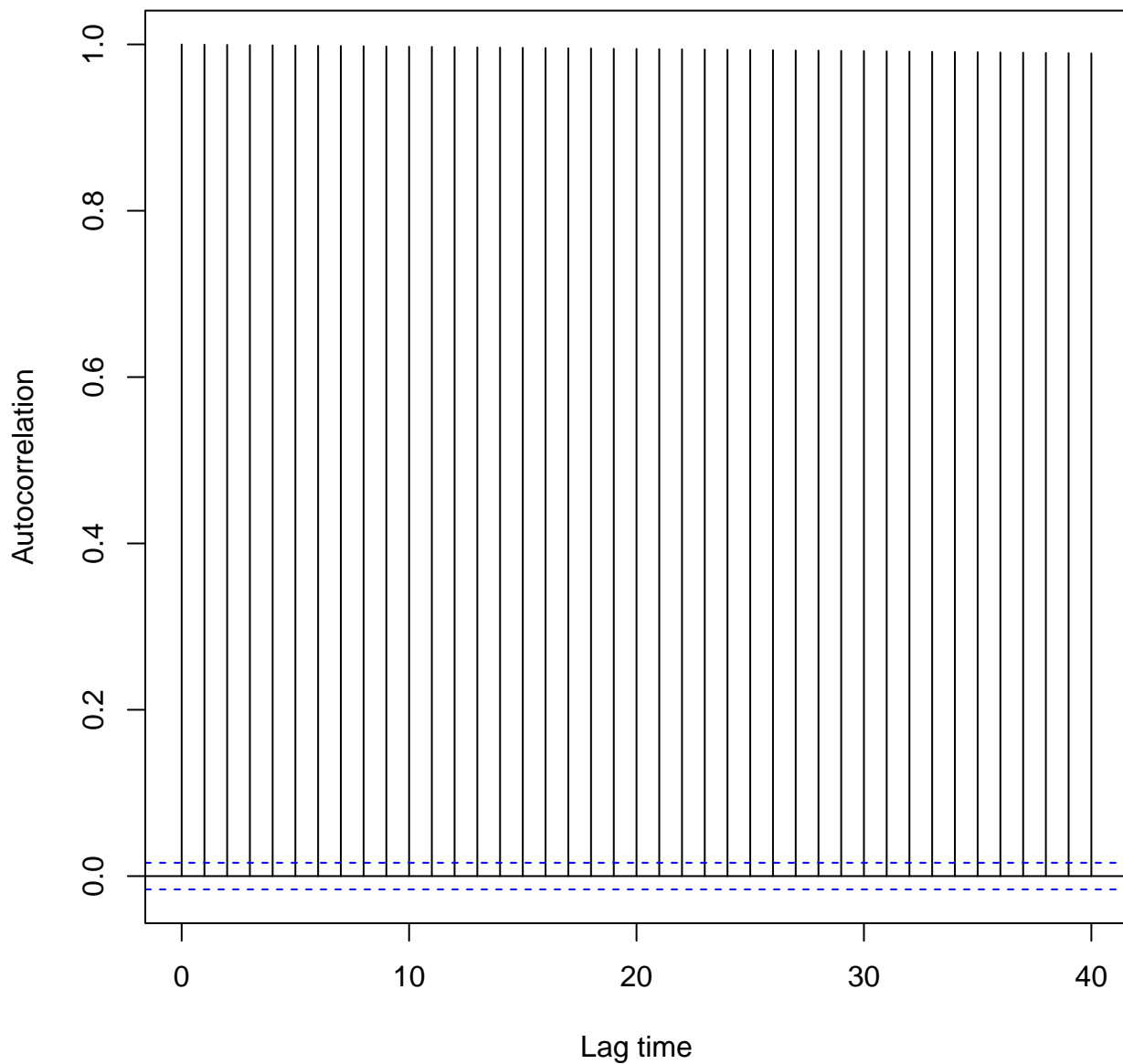


## Selection A GCC Mixture: 2

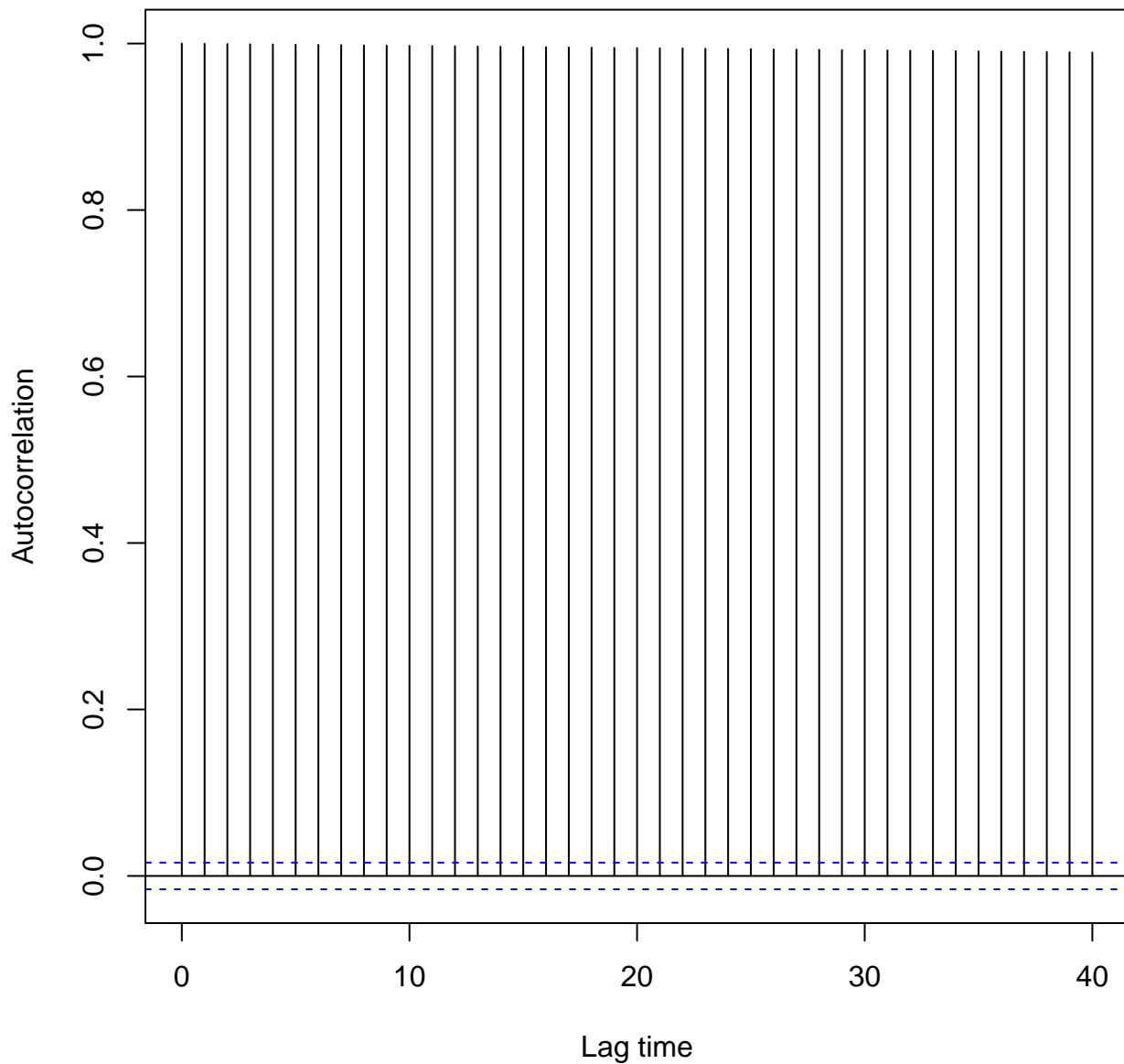




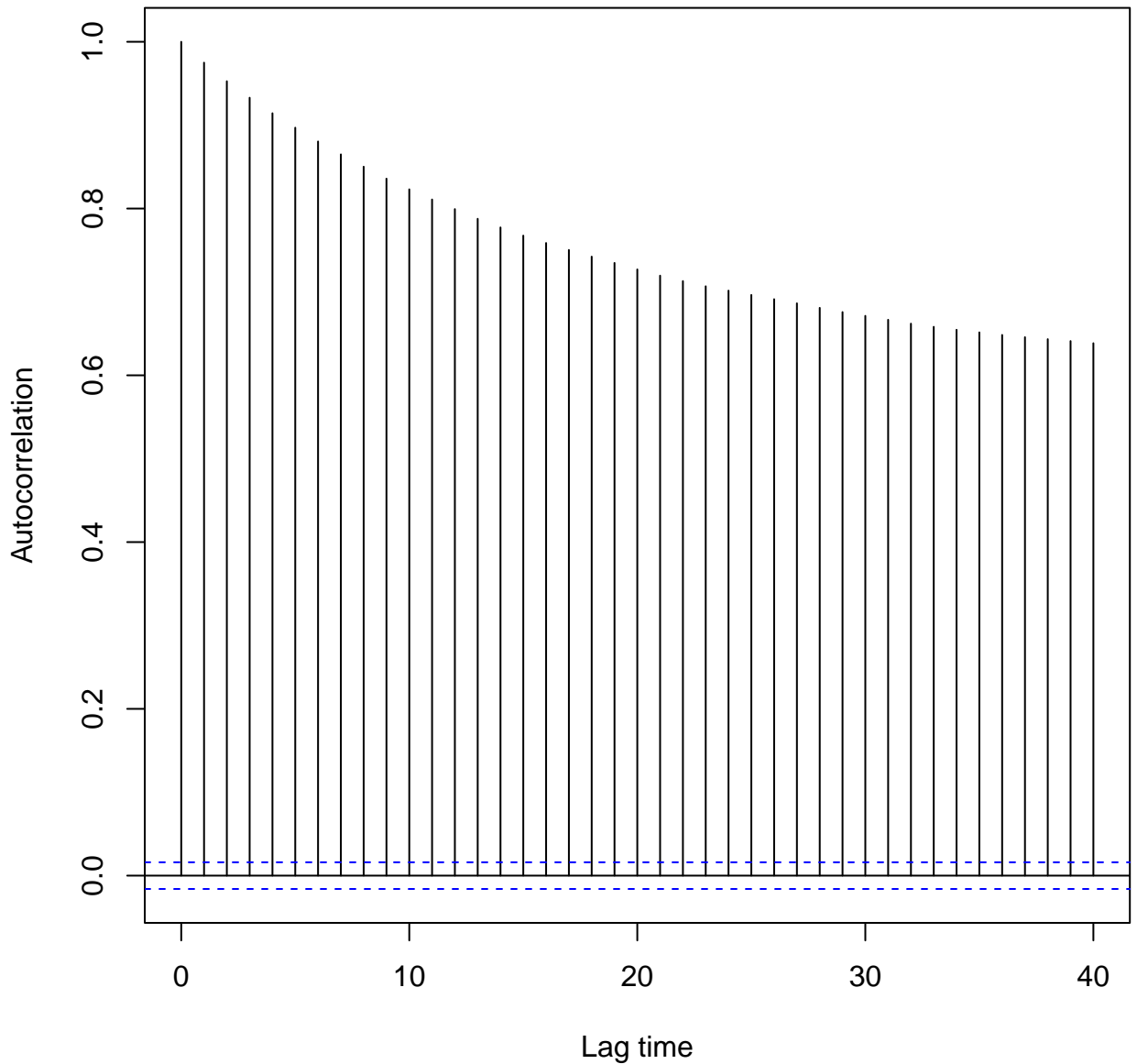
# Selection A GCG Mixture: 1



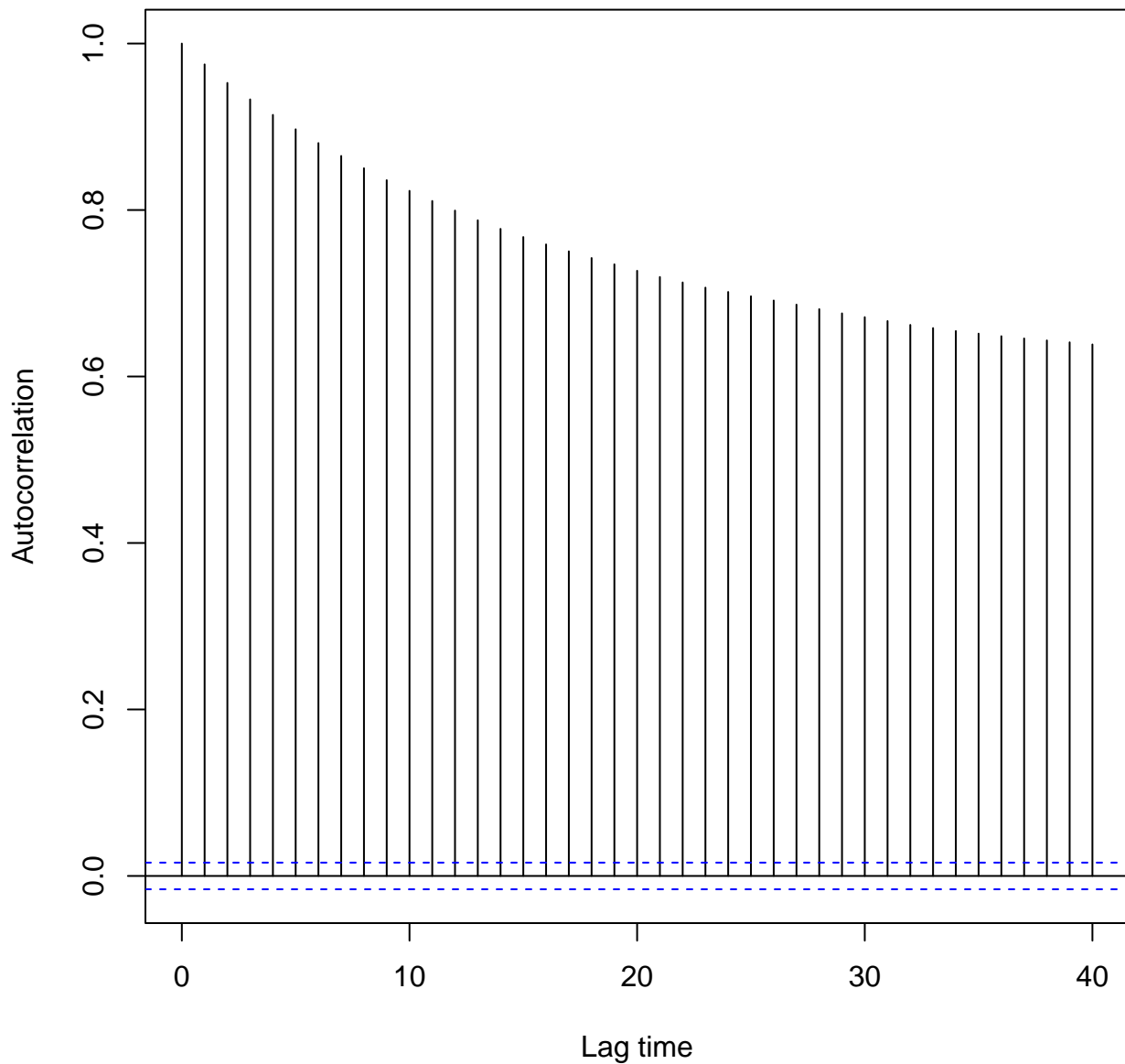
## Selection A GCG Mixture: 2



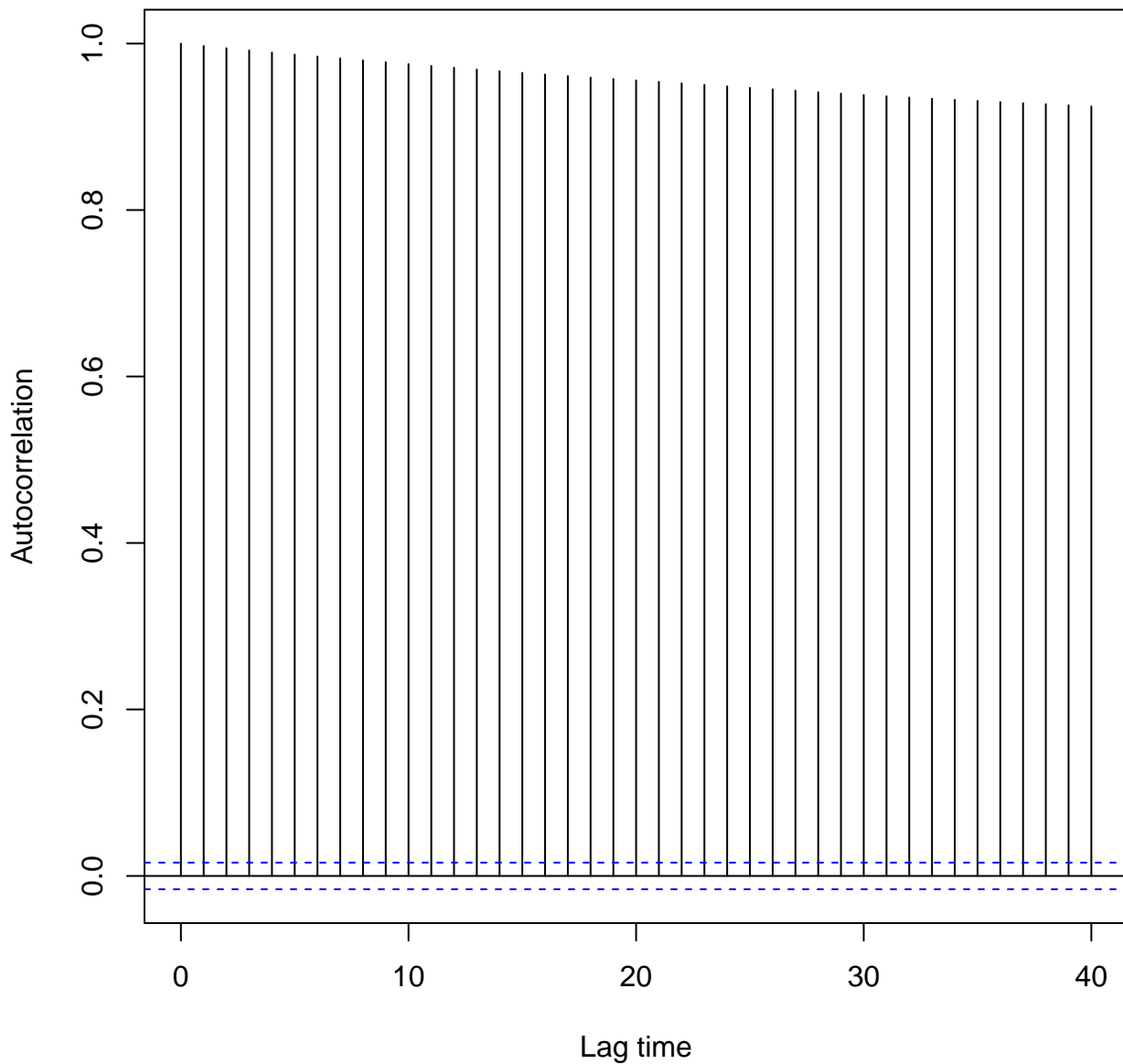
# Selection C TGC Mixture: 1



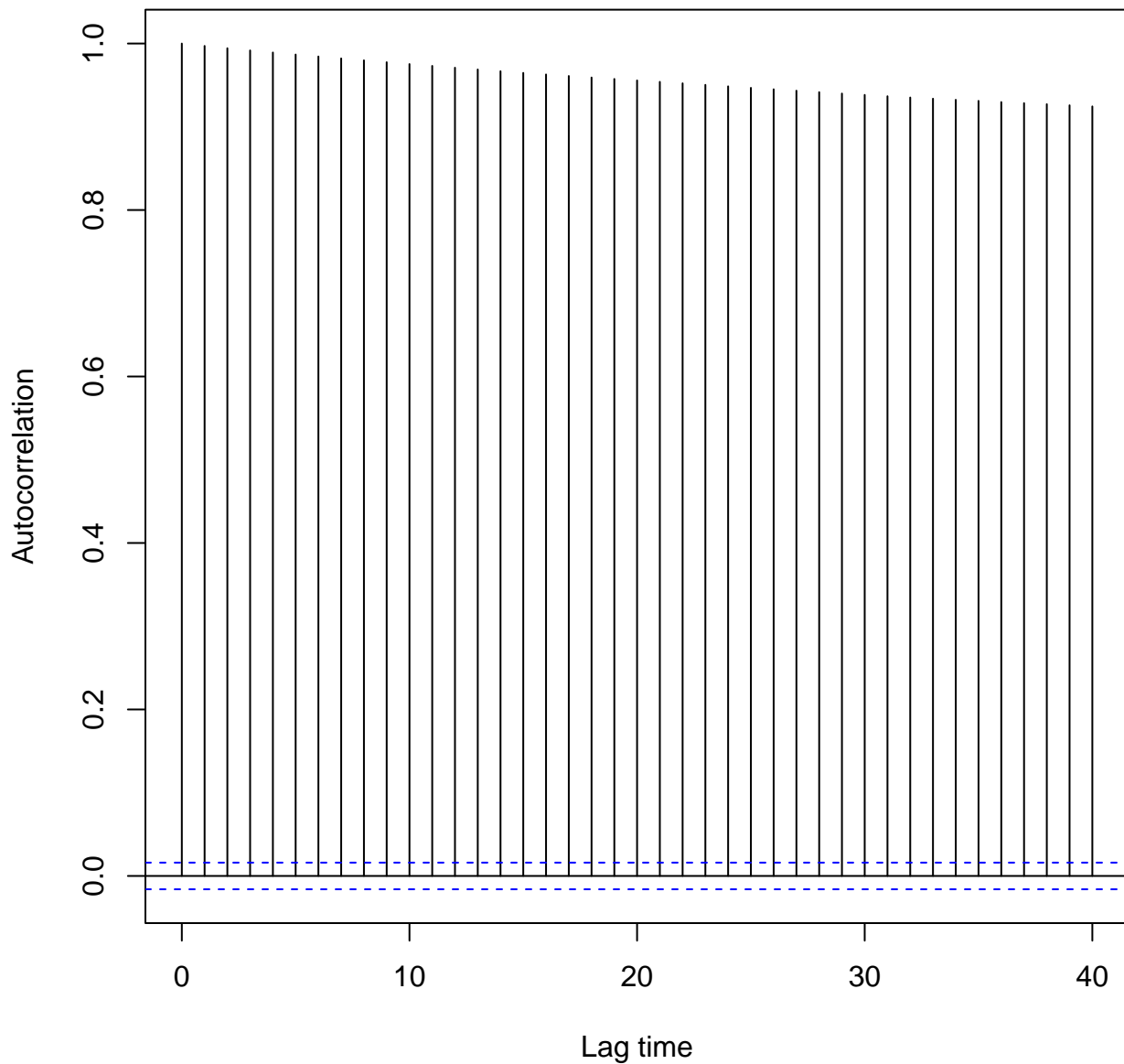
## Selection C TGC Mixture: 2



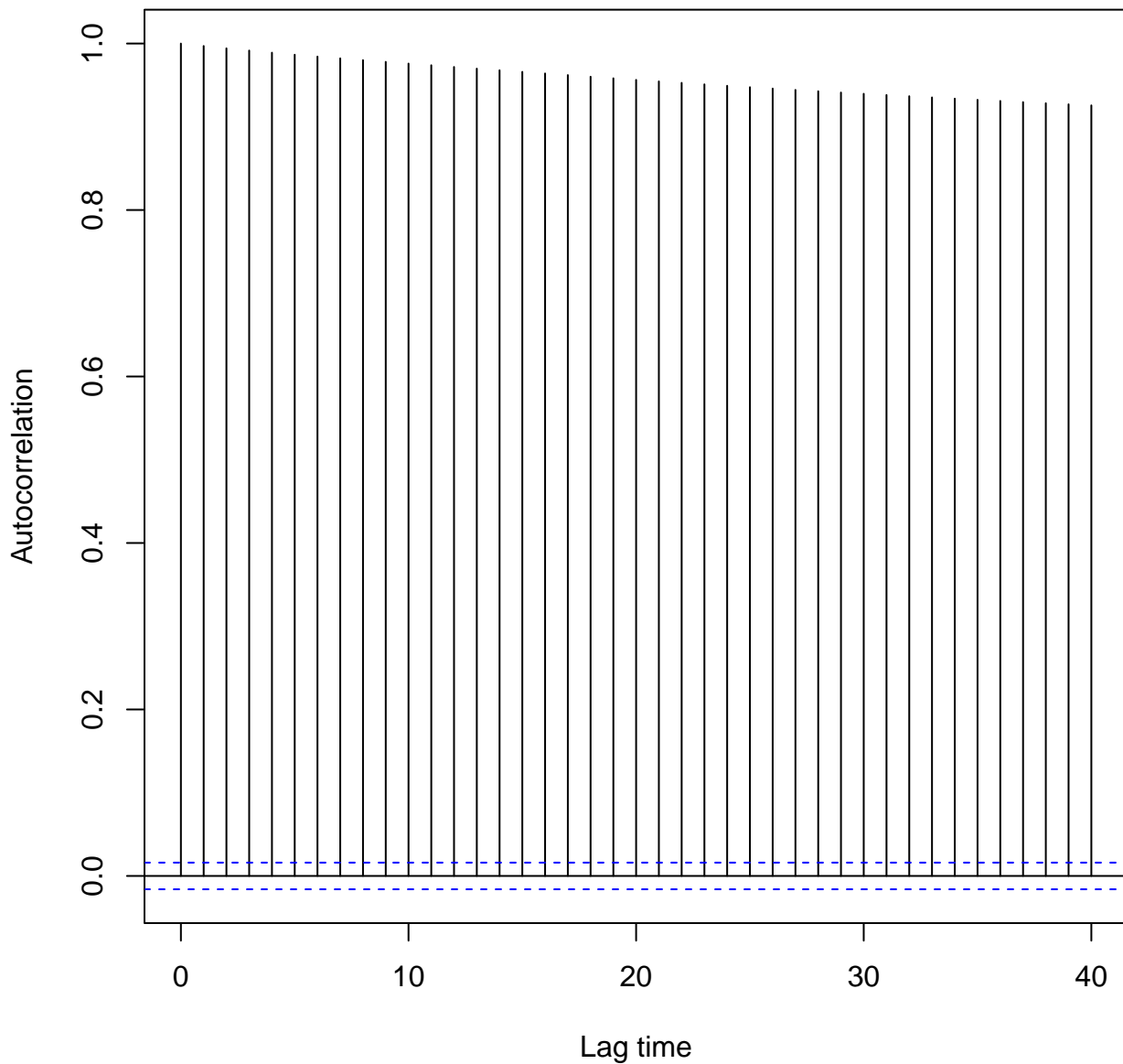
# Selection D GAC Mixture: 1



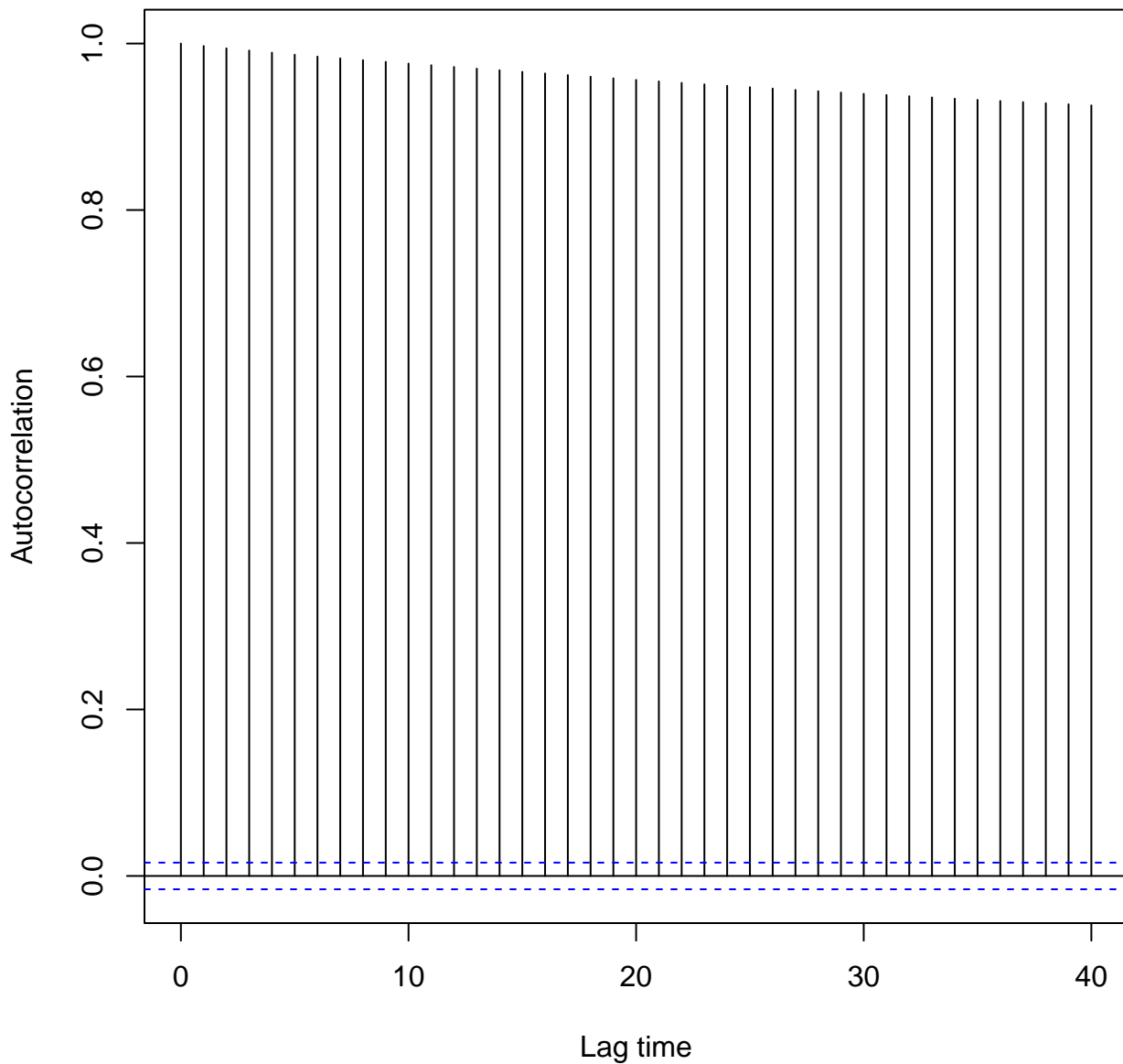
## Selection D GAC Mixture: 2



# Selection E GAA Mixture: 1

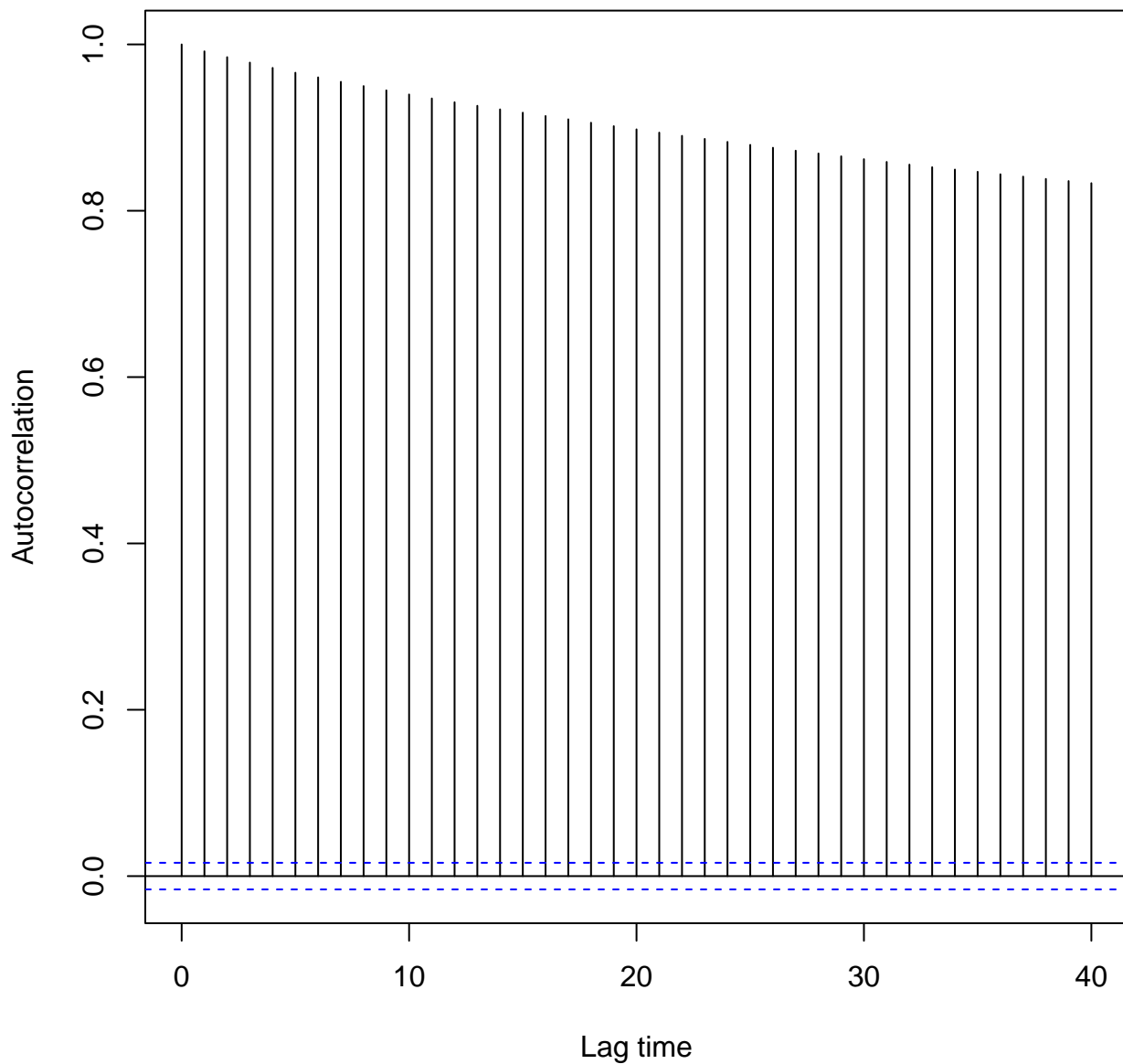


## Selection E GAA Mixture: 2

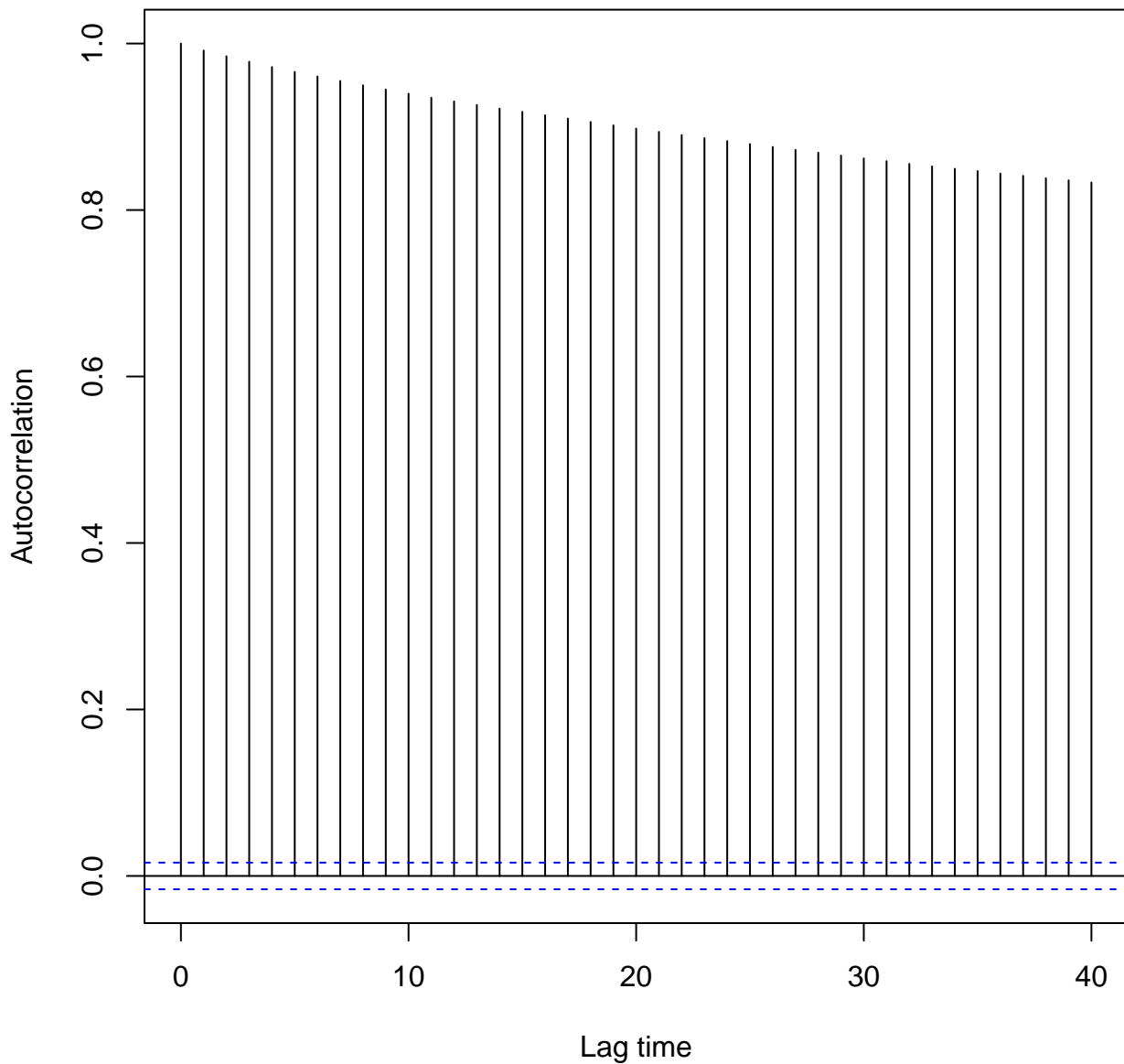




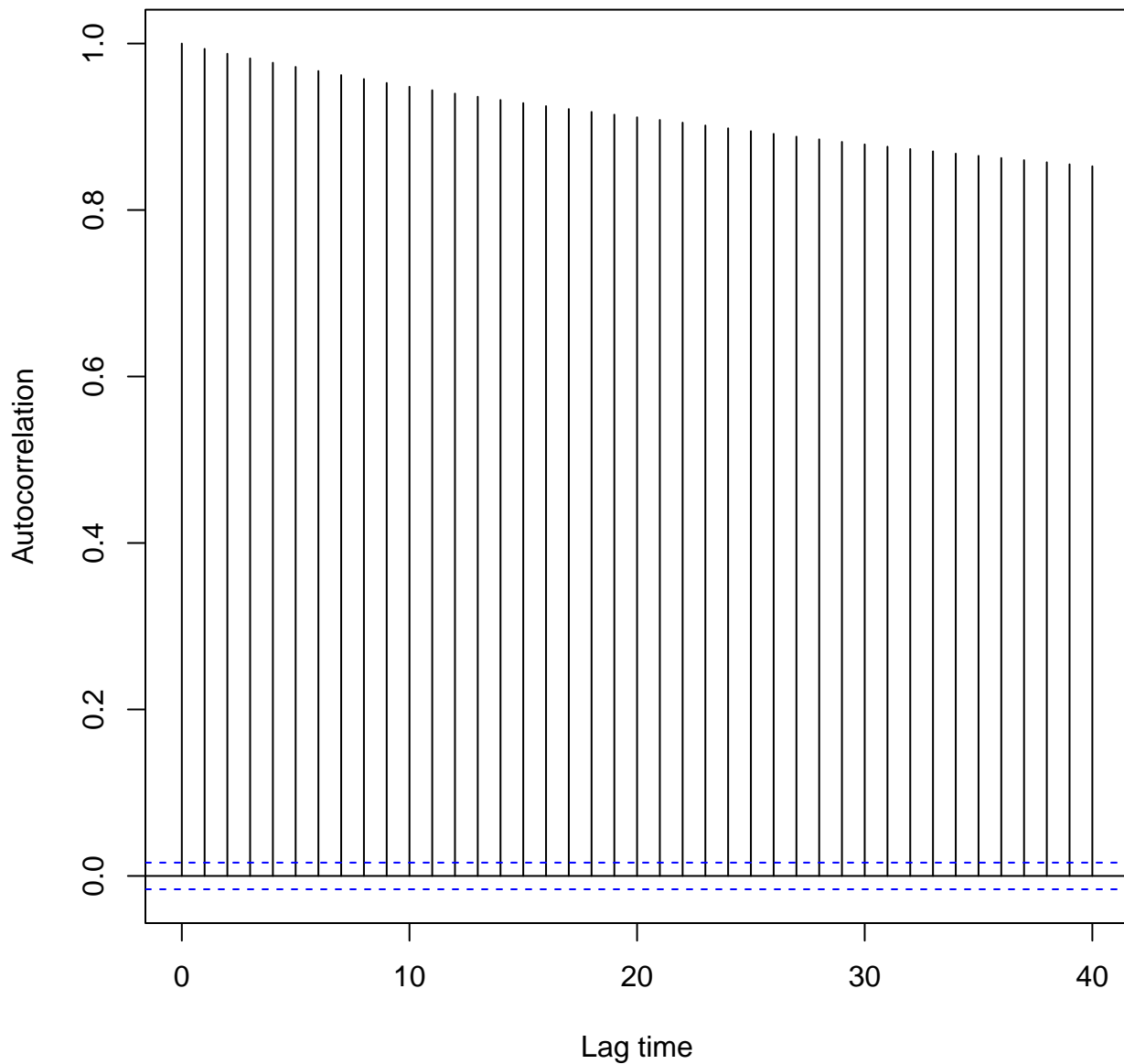
# Selection F TTC Mixture: 1



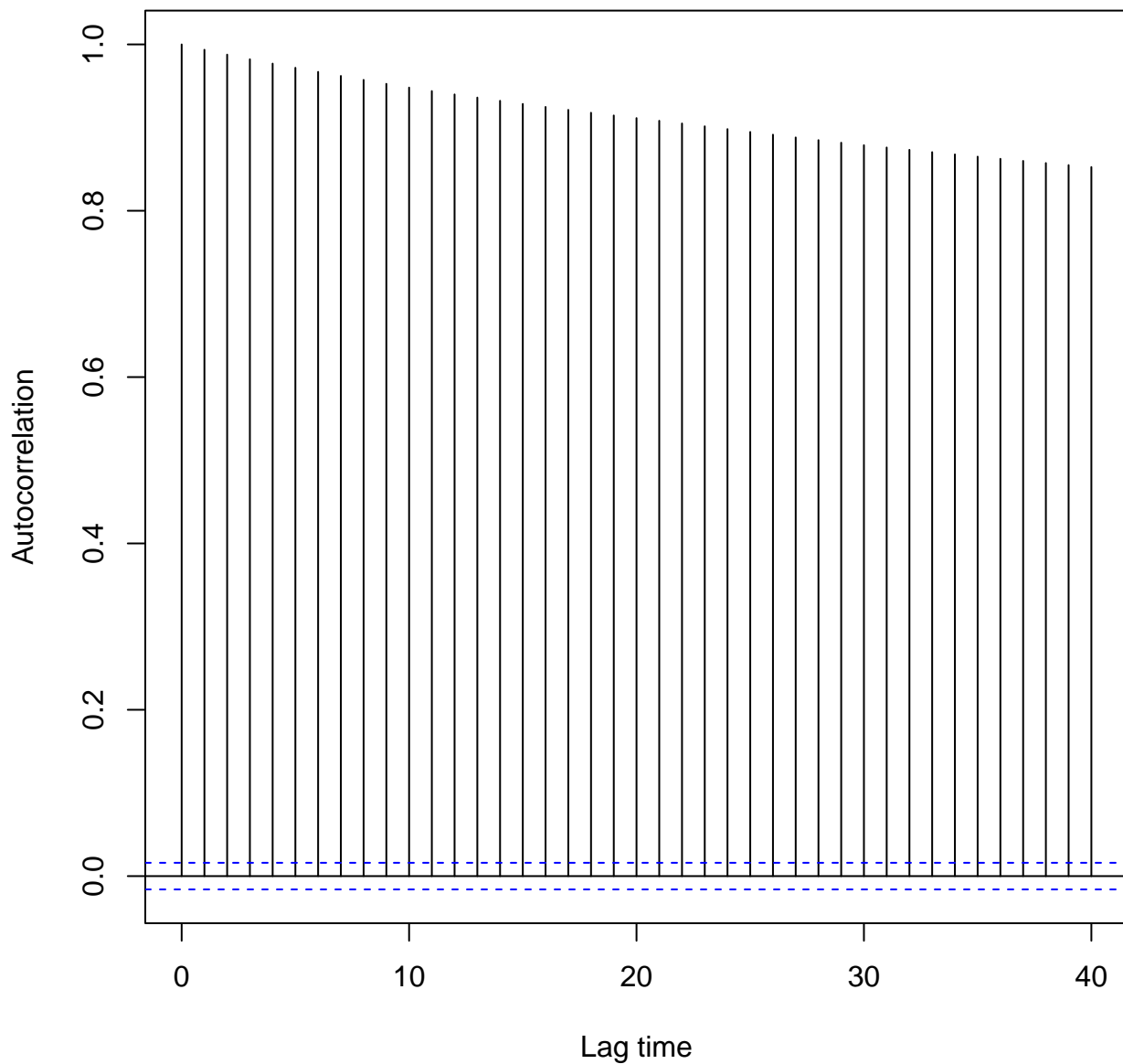
## Selection F TTC Mixture: 2



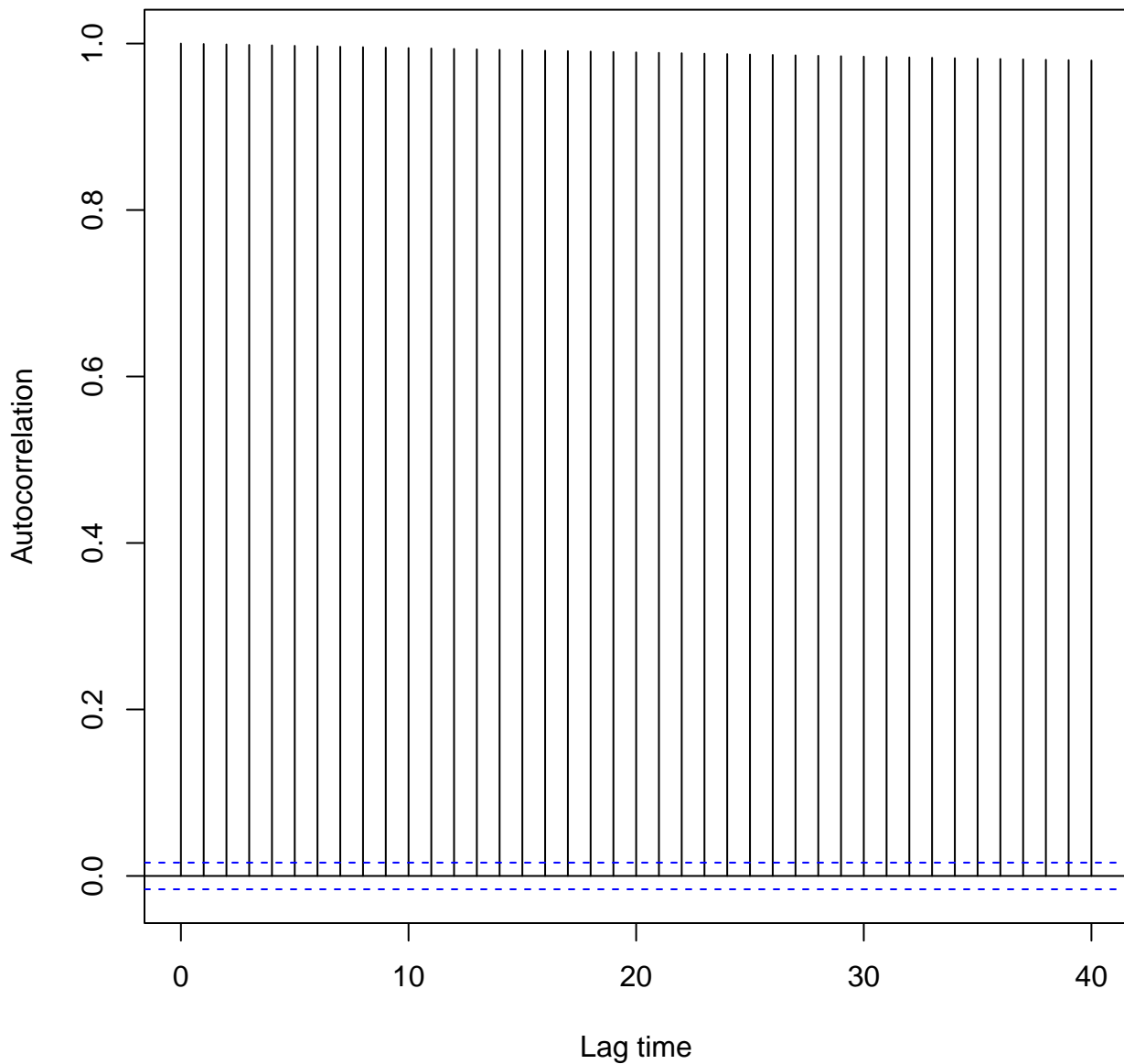
# Selection G GGA Mixture: 1



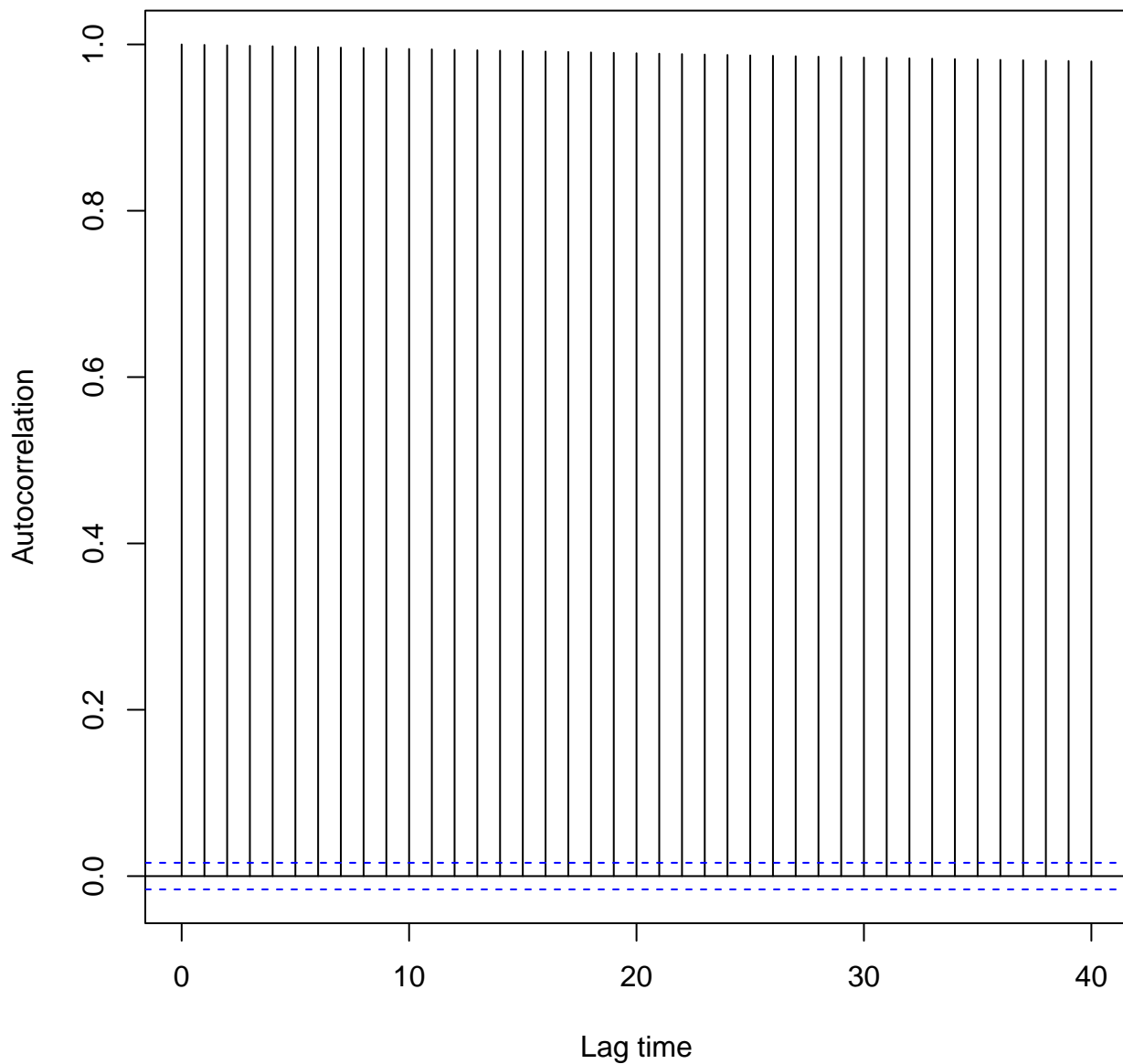
## Selection G GGA Mixture: 2



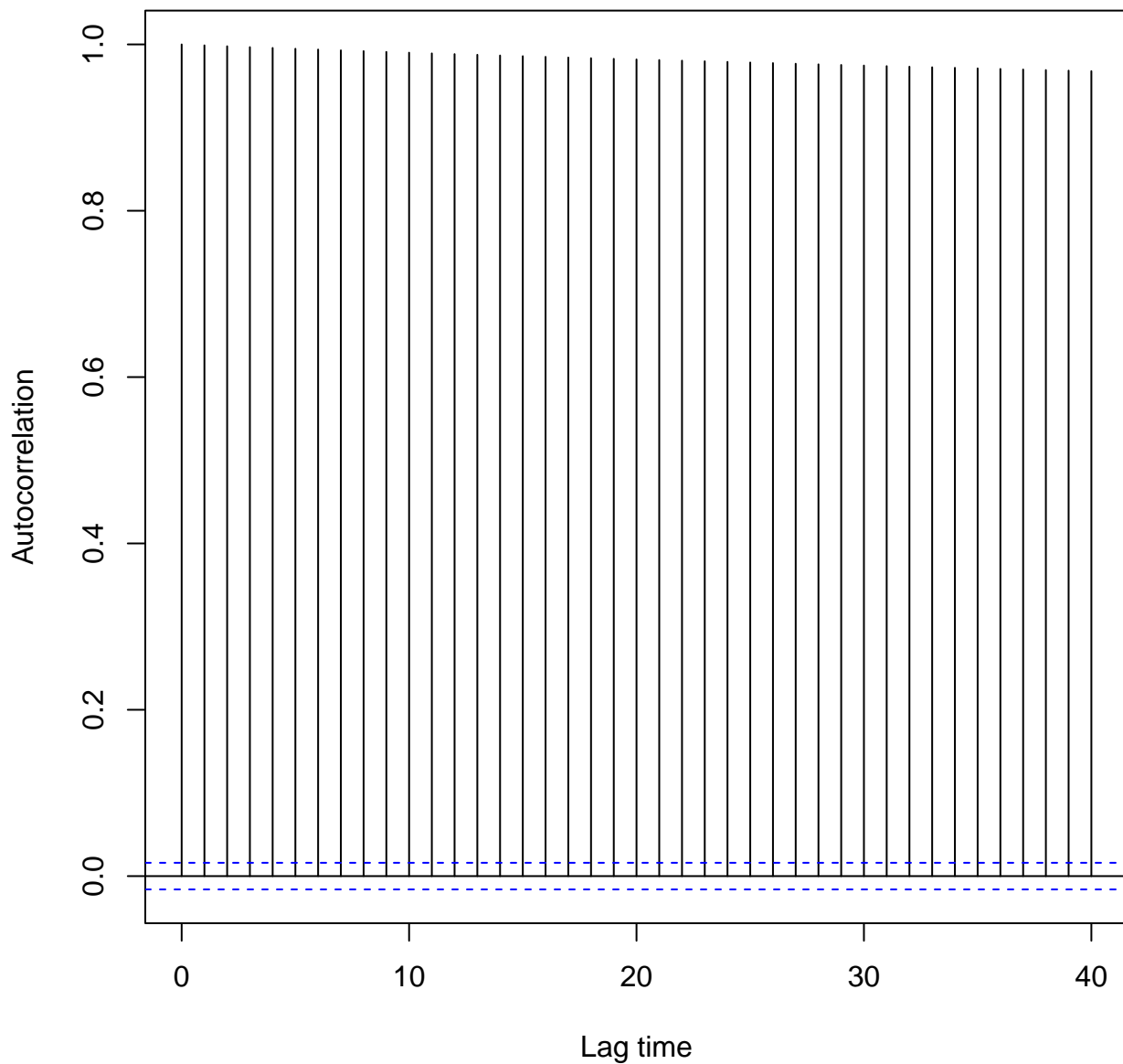
# Selection G GGC Mixture: 1



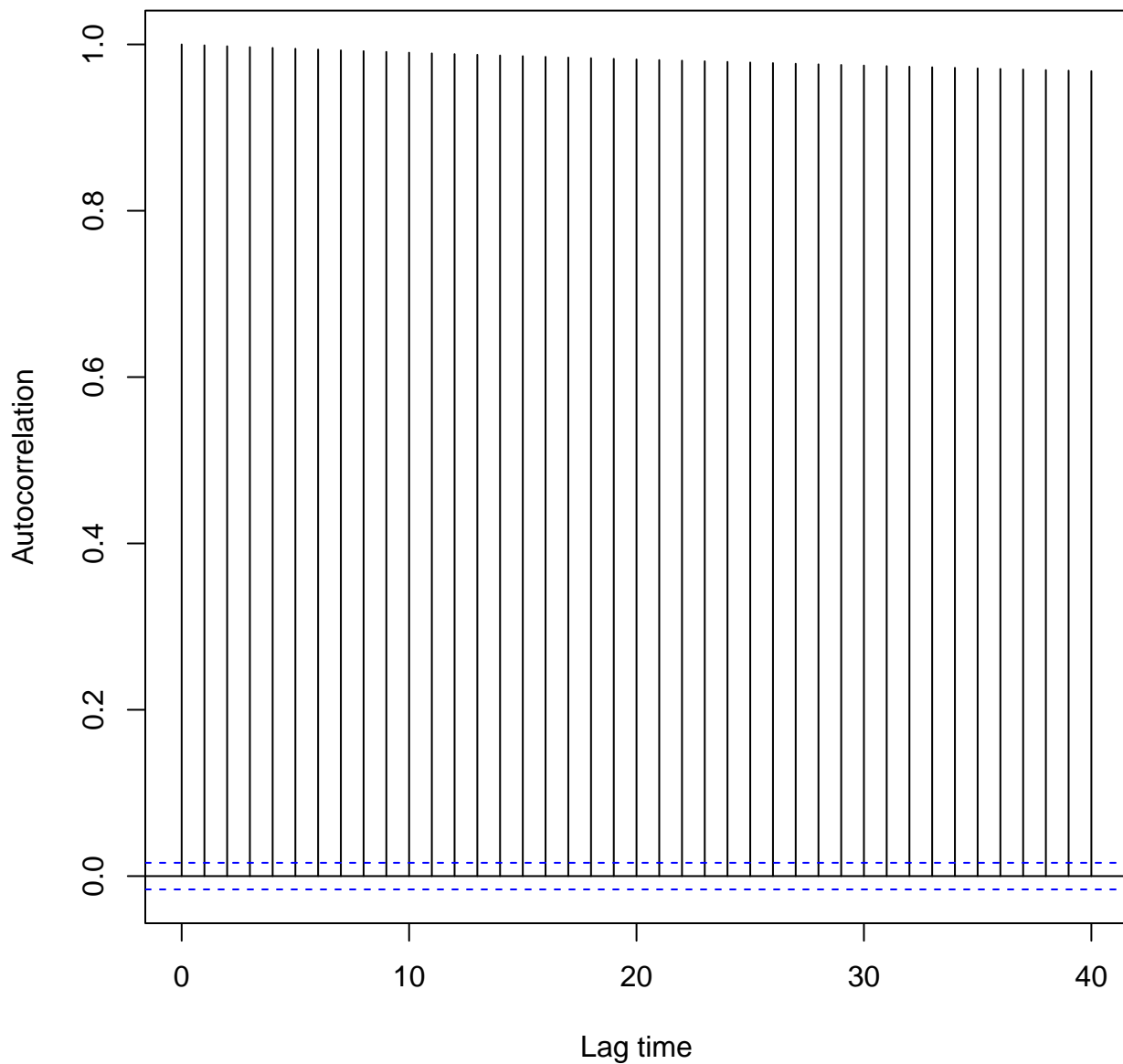
## Selection G GGC Mixture: 2



# Selection G GGG Mixture: 1

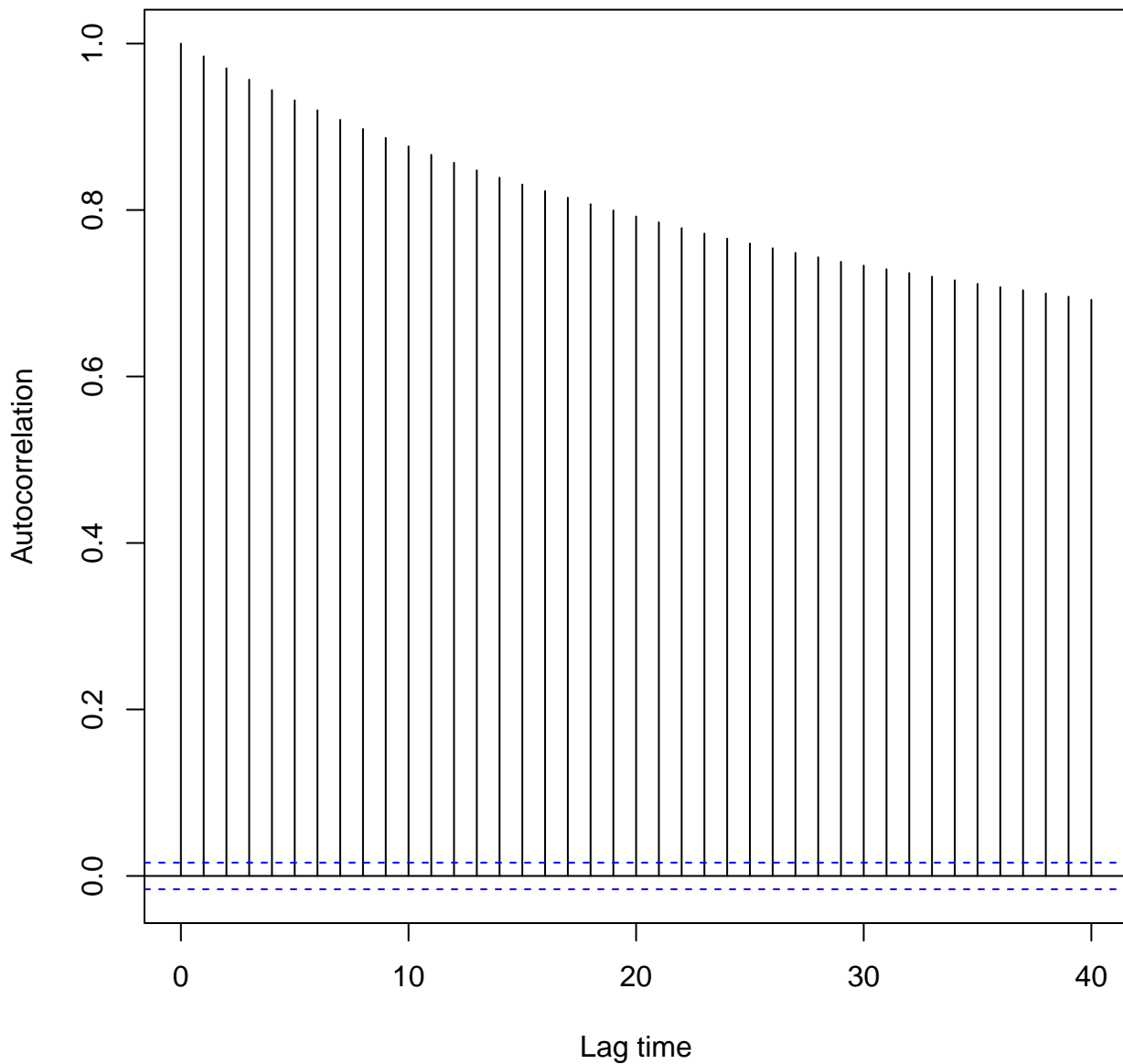


## Selection G GGG Mixture: 2

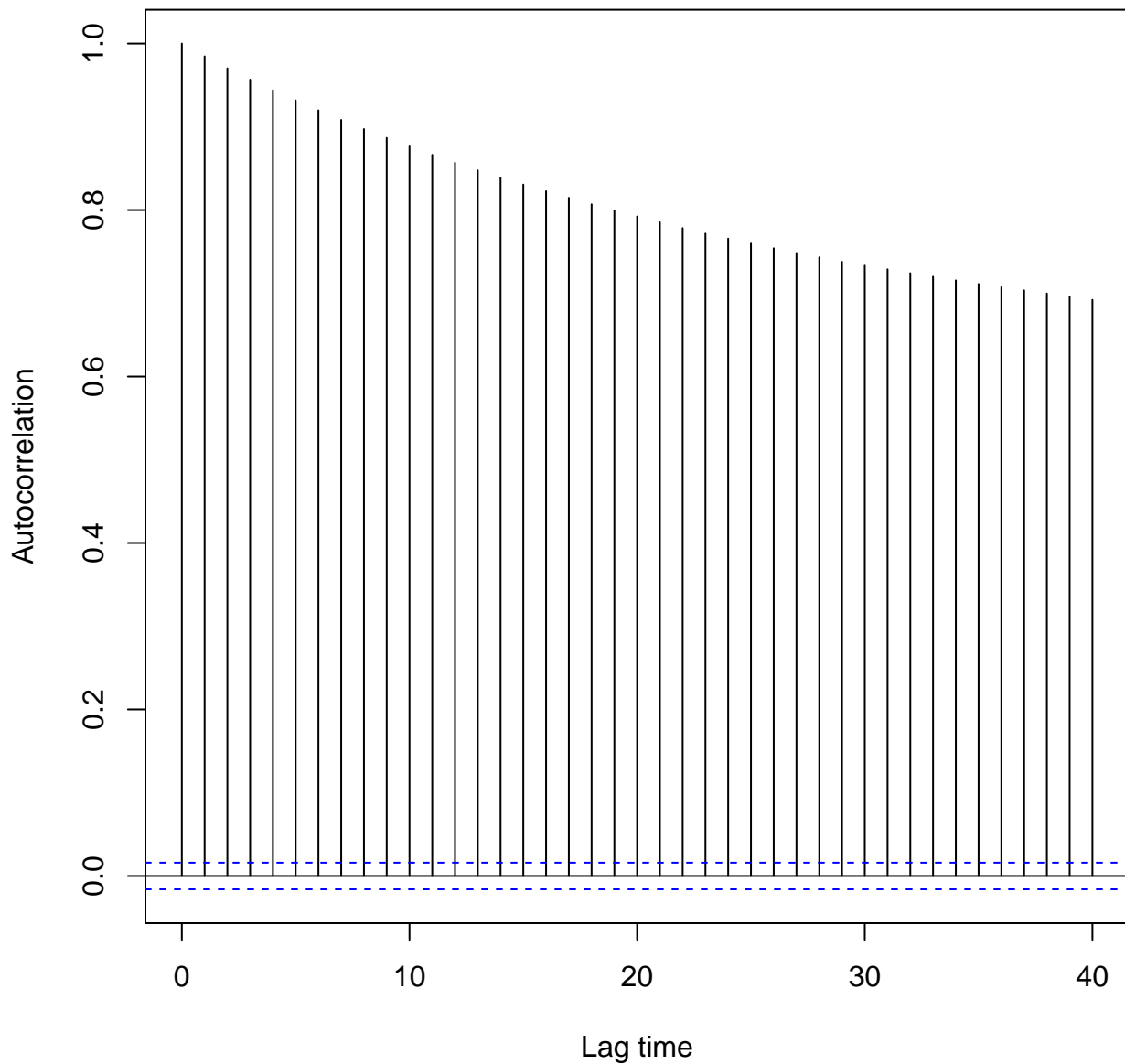




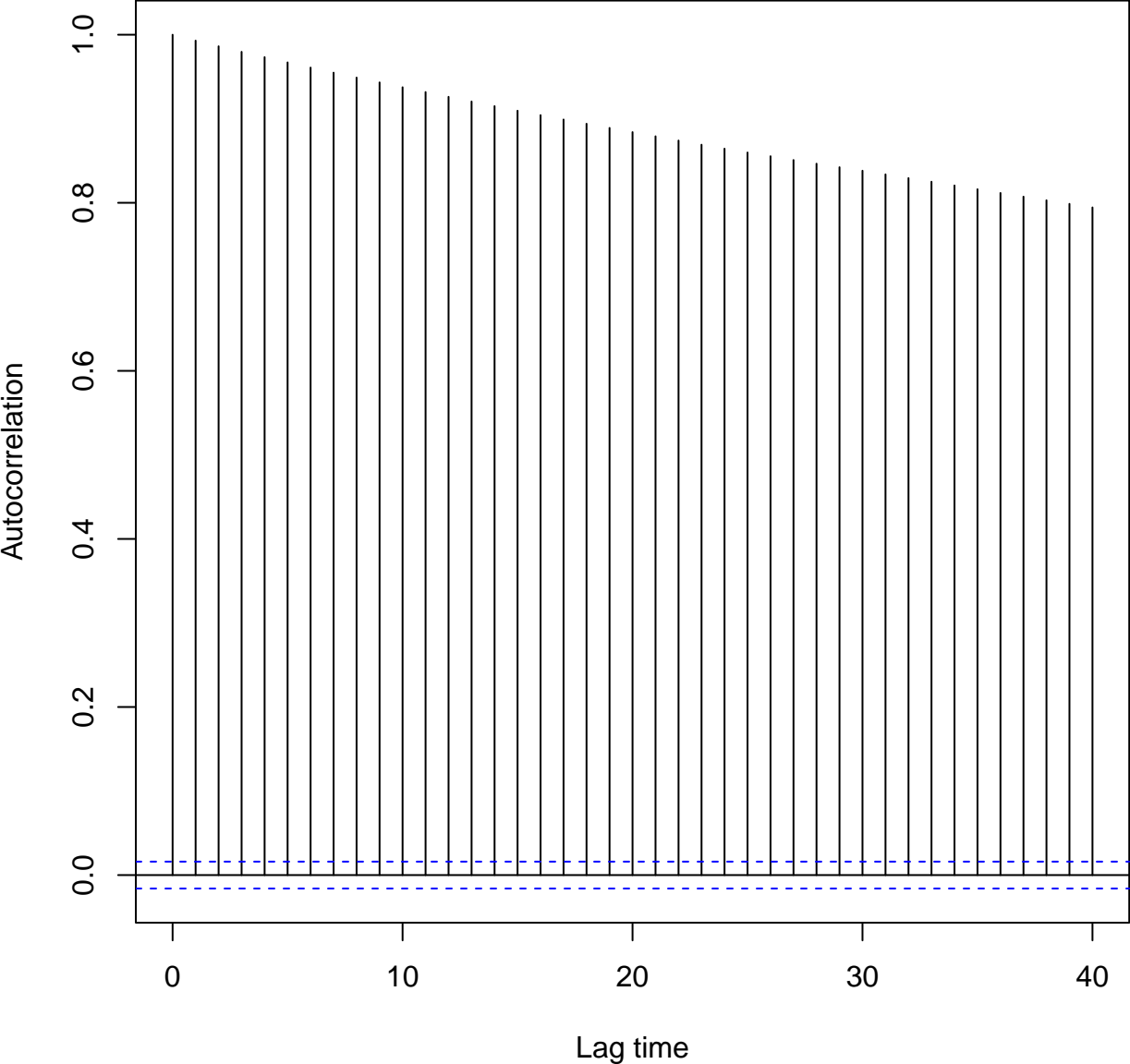
# Selection H CAC Mixture: 1



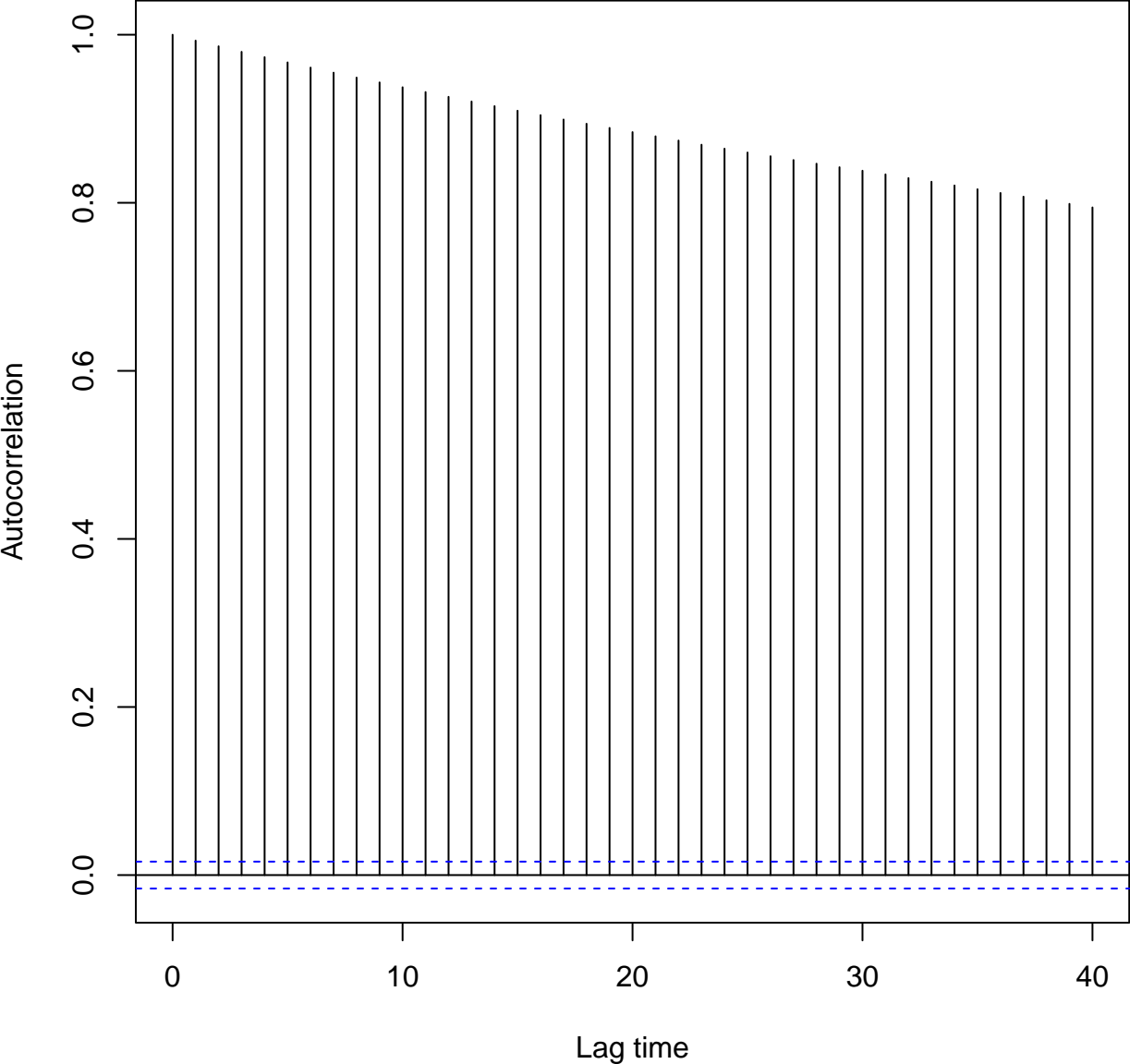
## Selection H CAC Mixture: 2



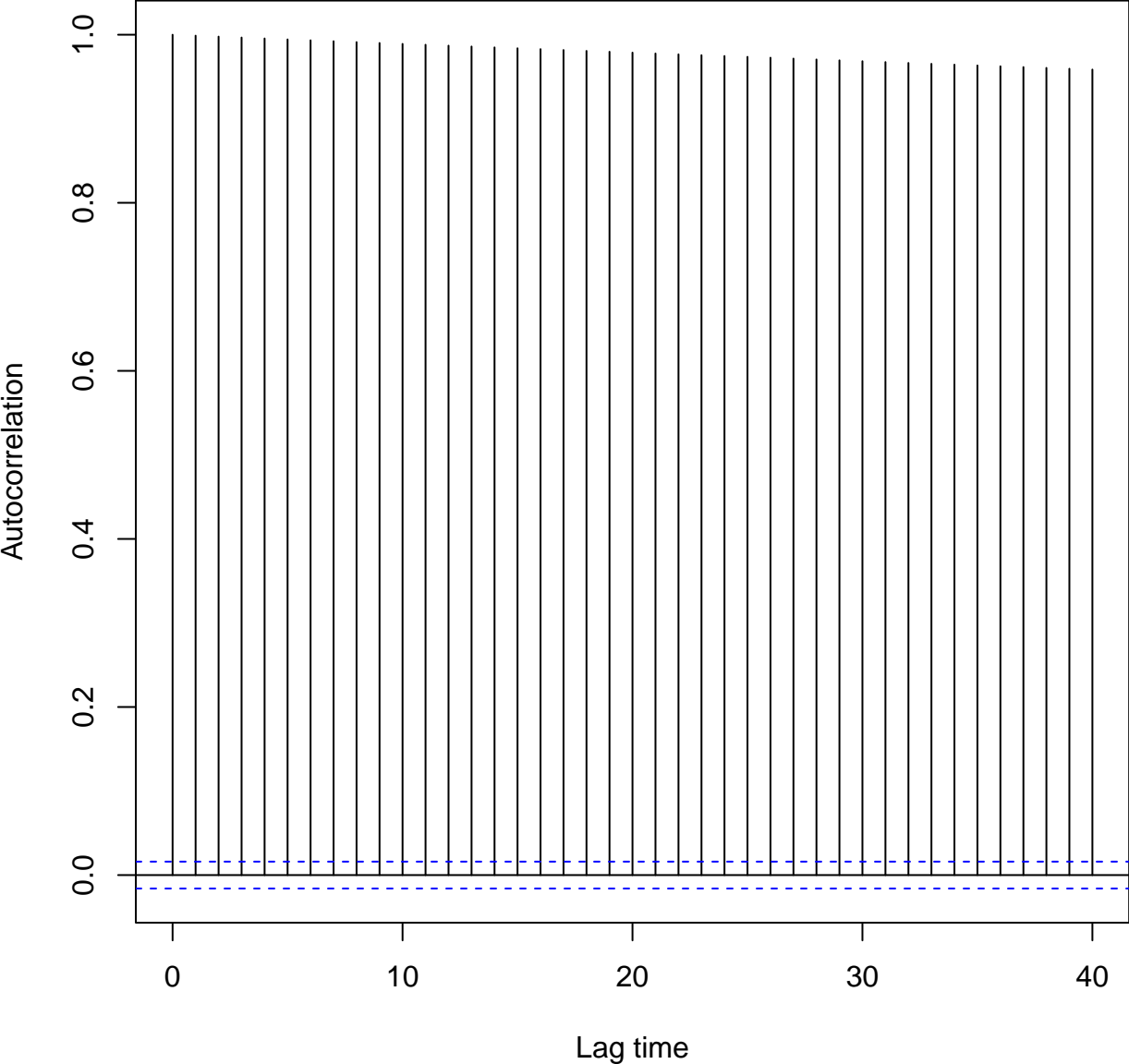
**Selection I ATA Mixture: 1**



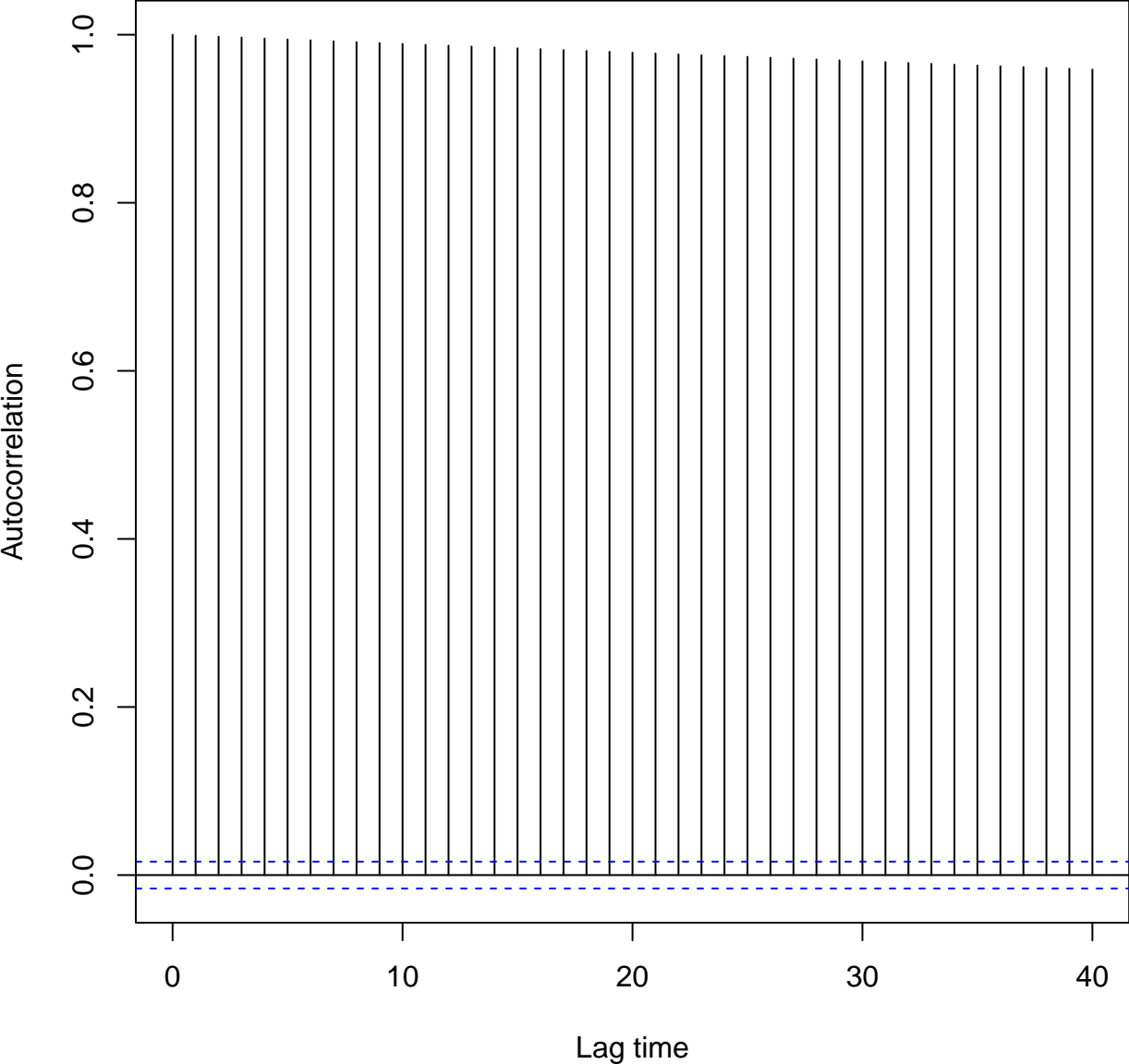
**Selection I ATA Mixture: 2**



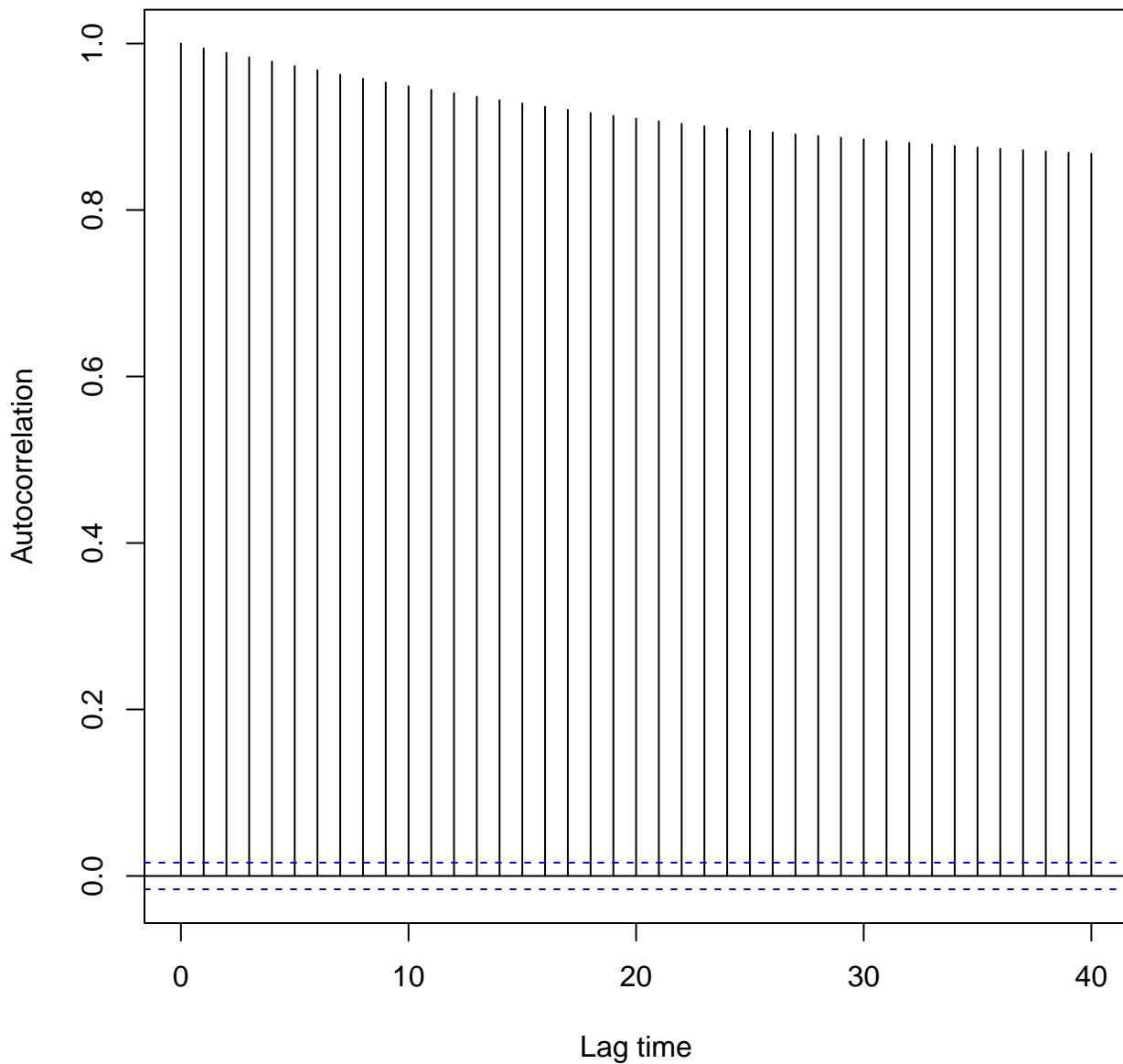
**Selection I ATC Mixture: 1**



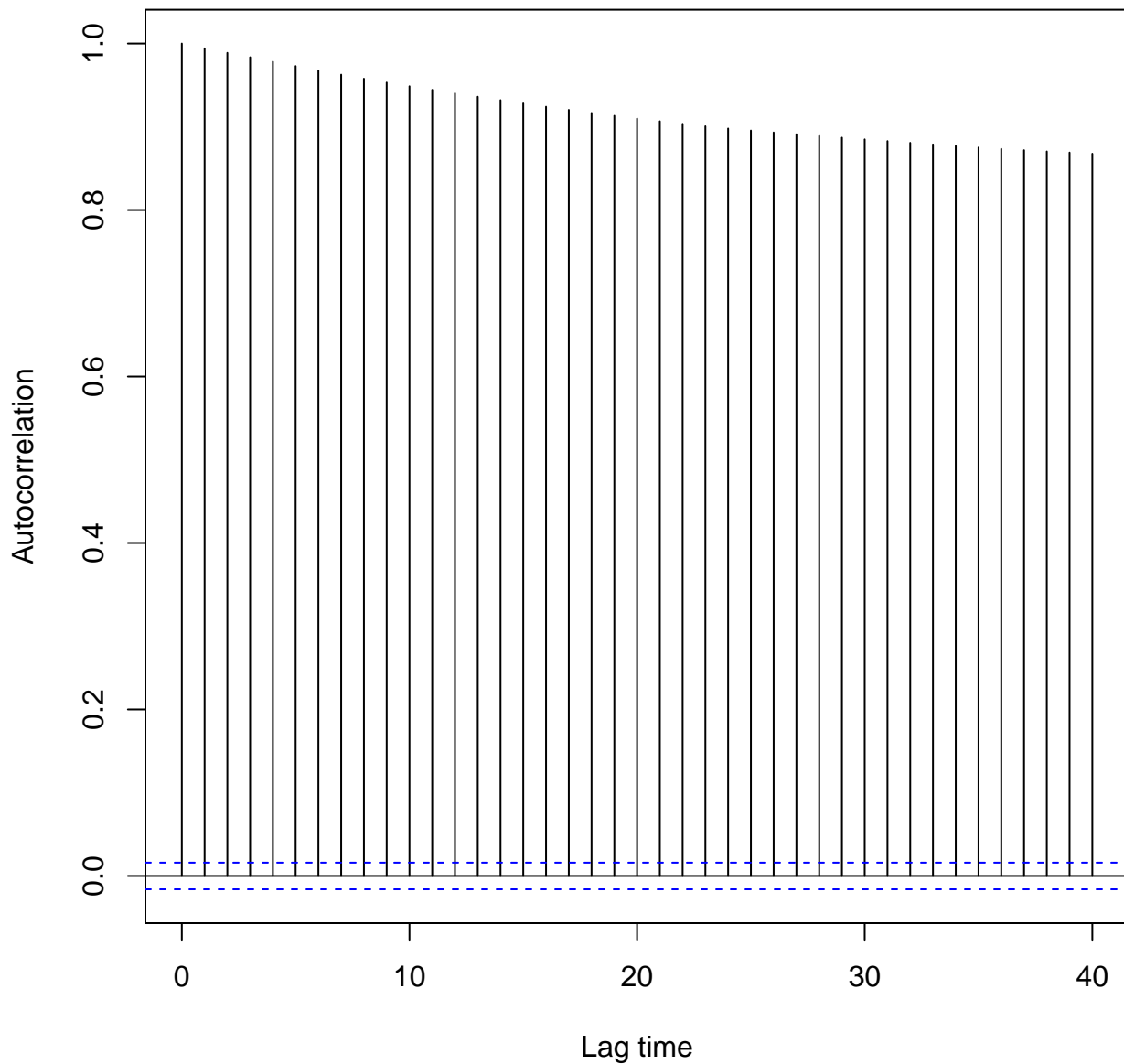
**Selection I ATC Mixture: 2**



# Selection K AAA Mixture: 1

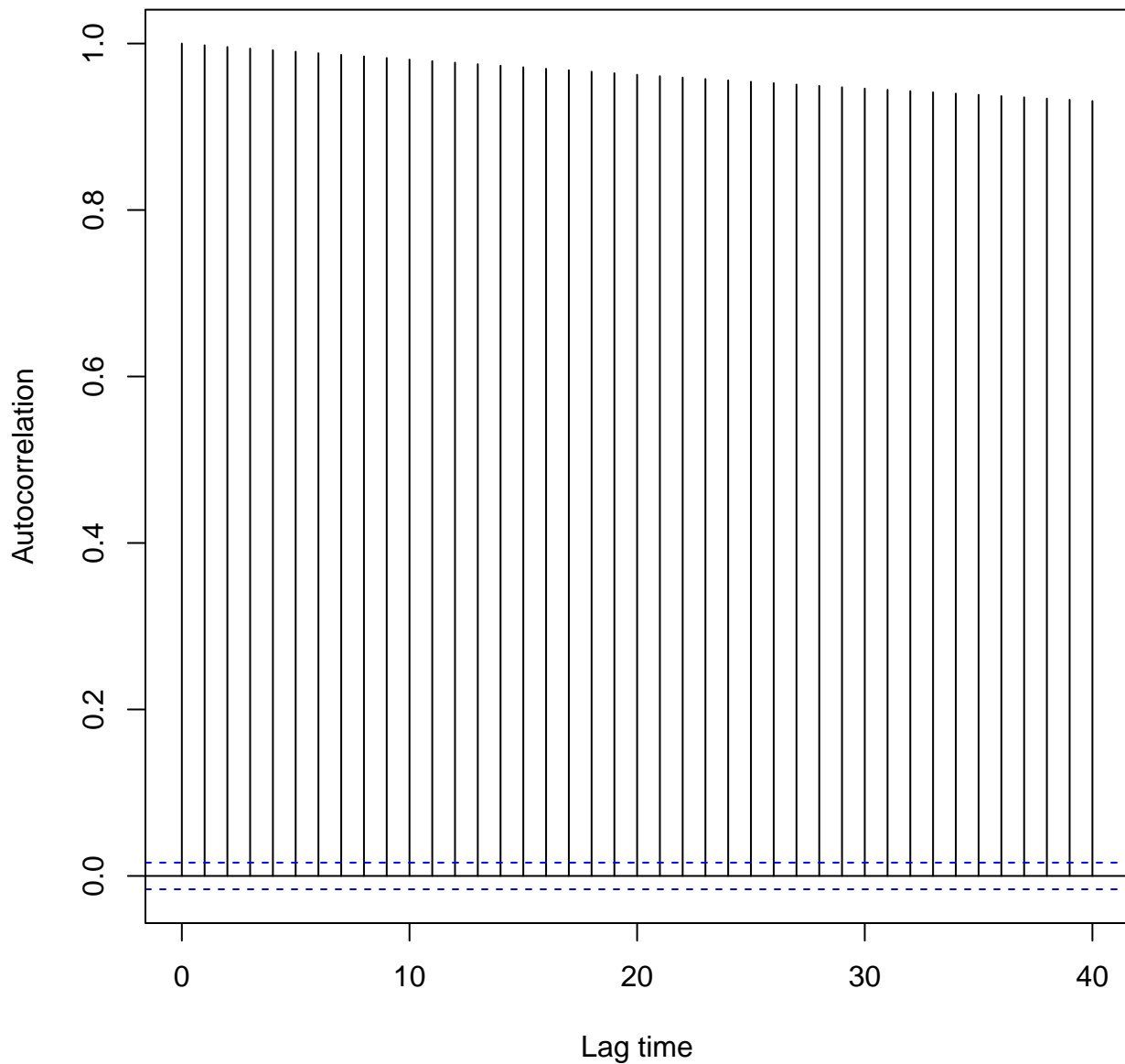


## Selection K AAA Mixture: 2

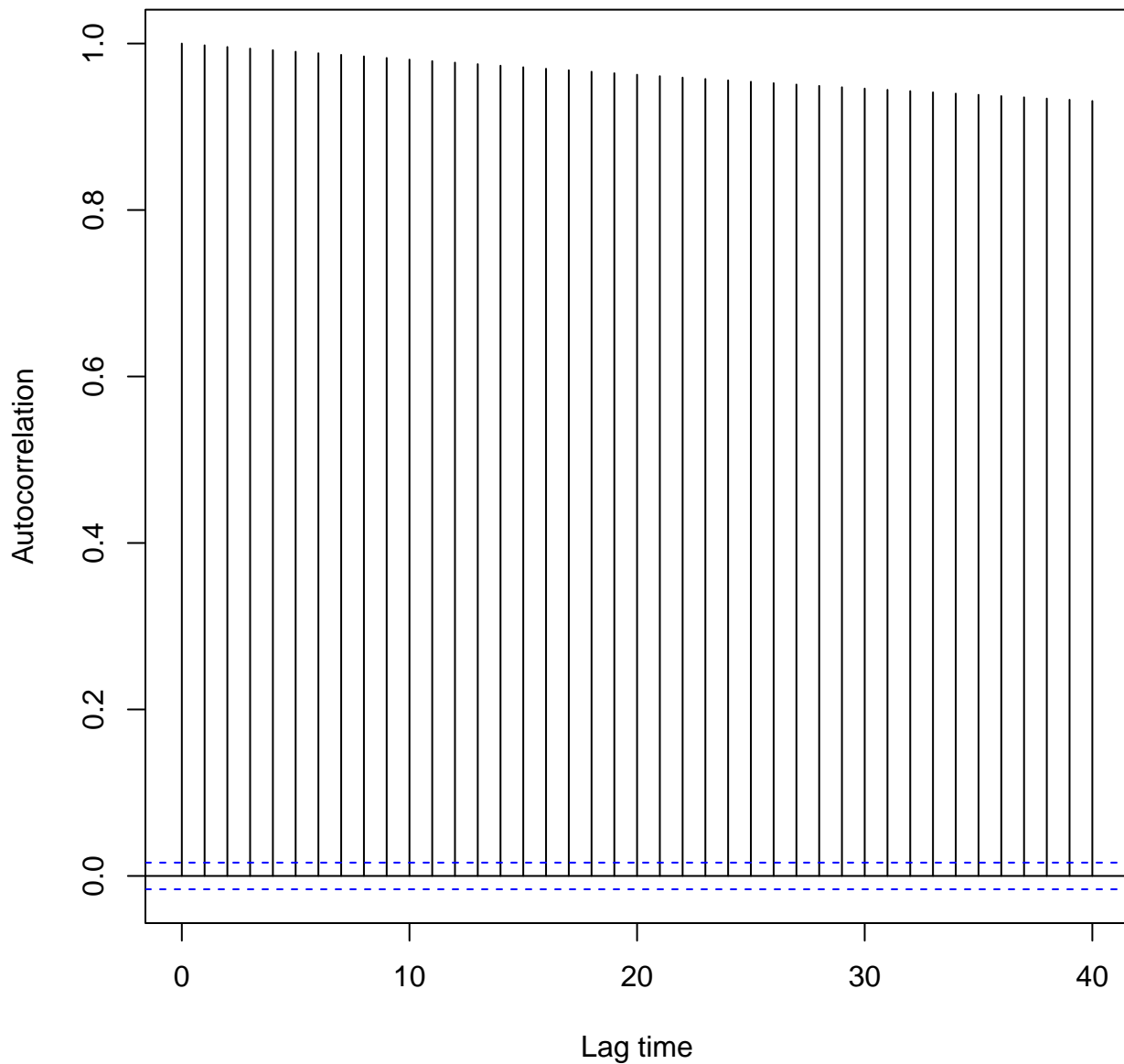




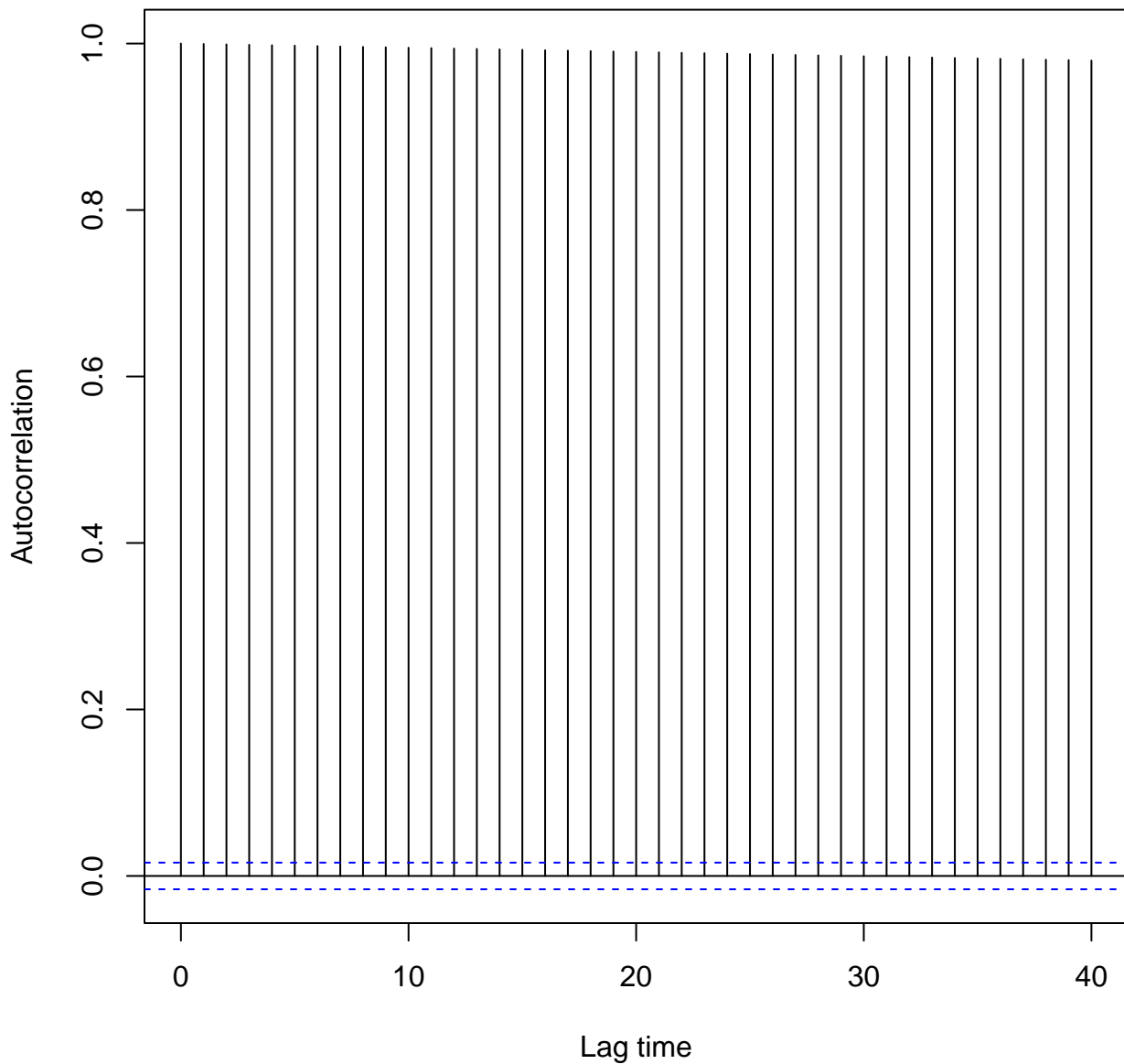
# Selection L CTA Mixture: 1



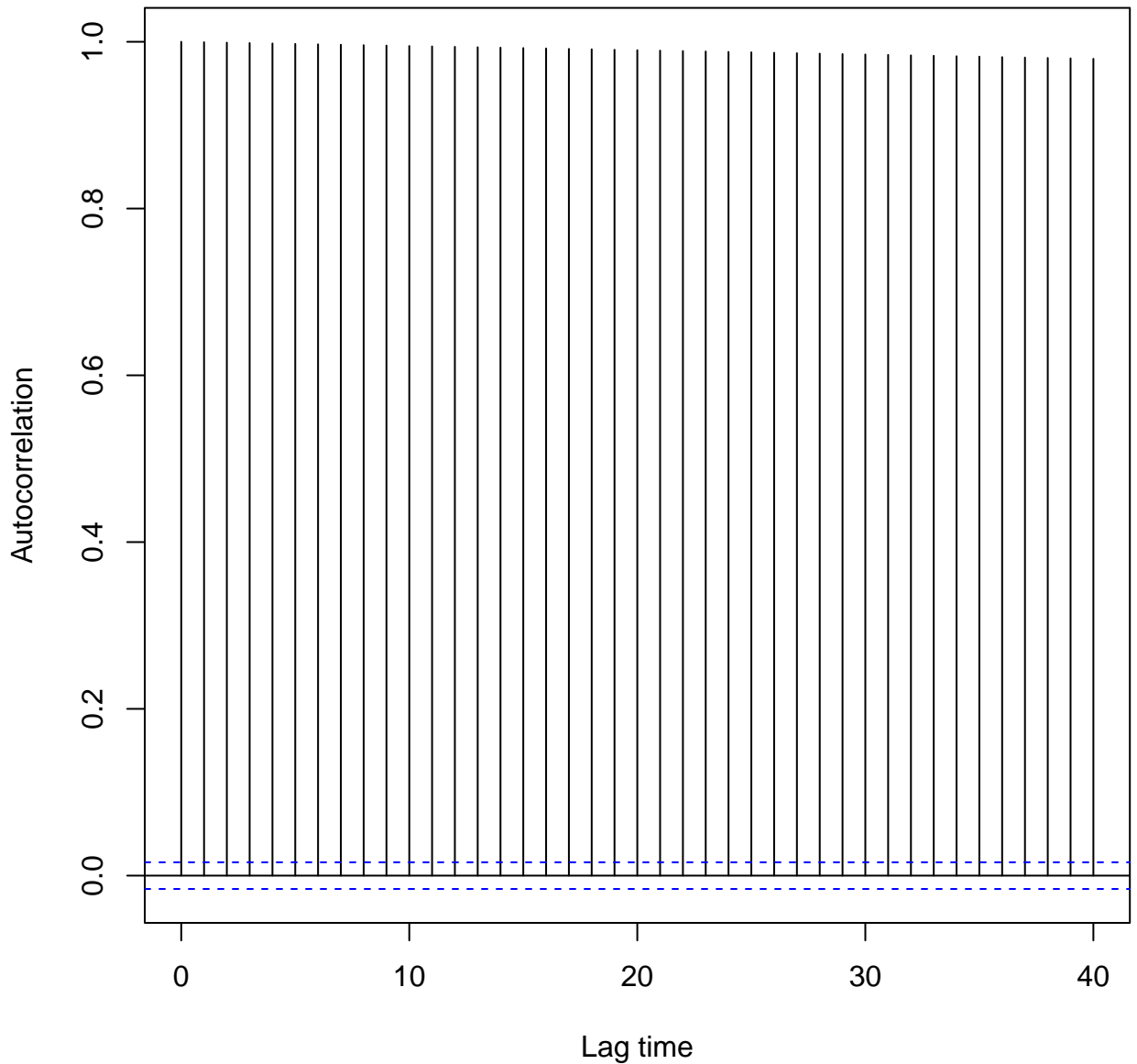
## Selection L CTA Mixture: 2



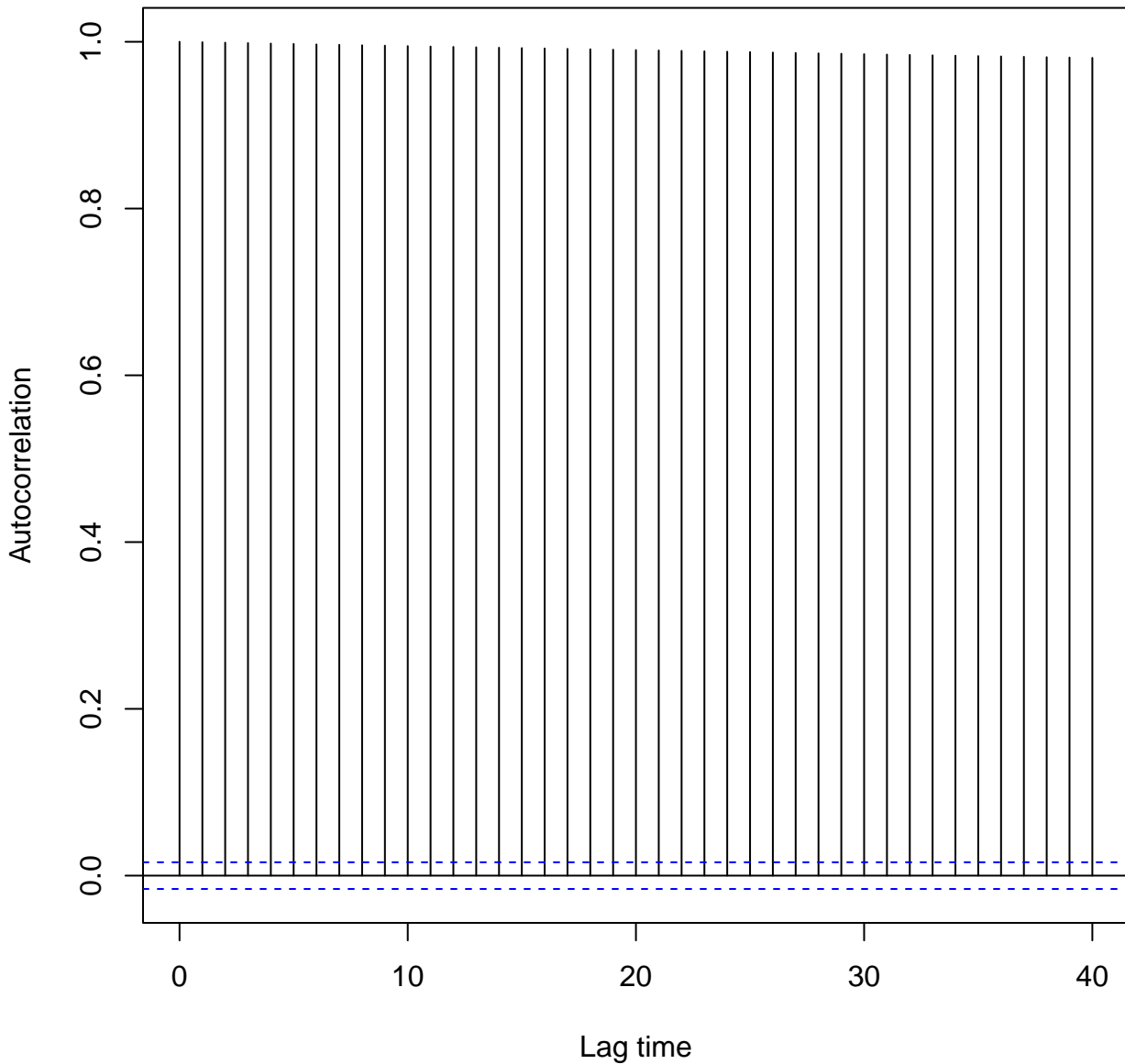
# Selection L CTC Mixture: 1



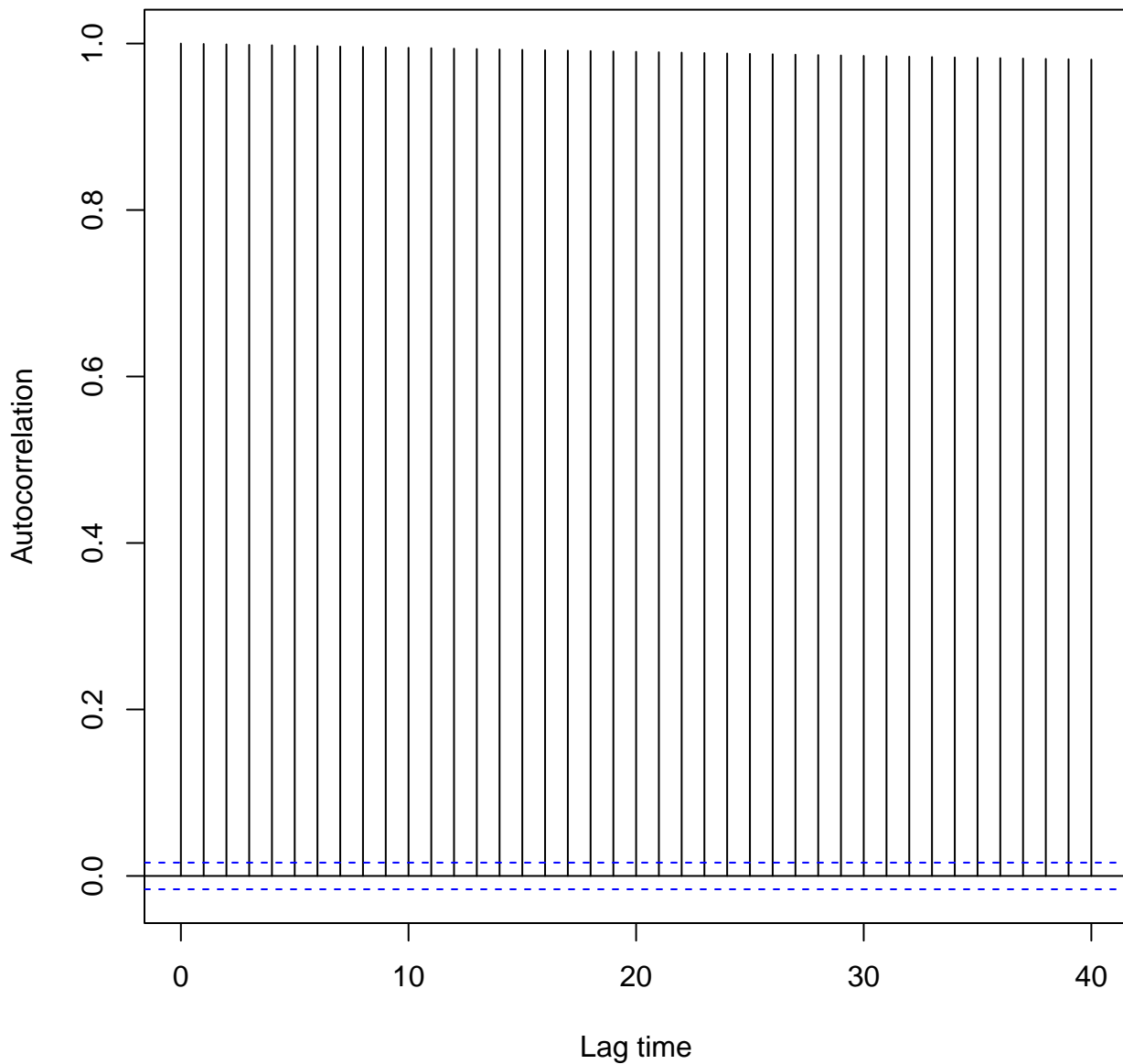
## Selection L CTC Mixture: 2



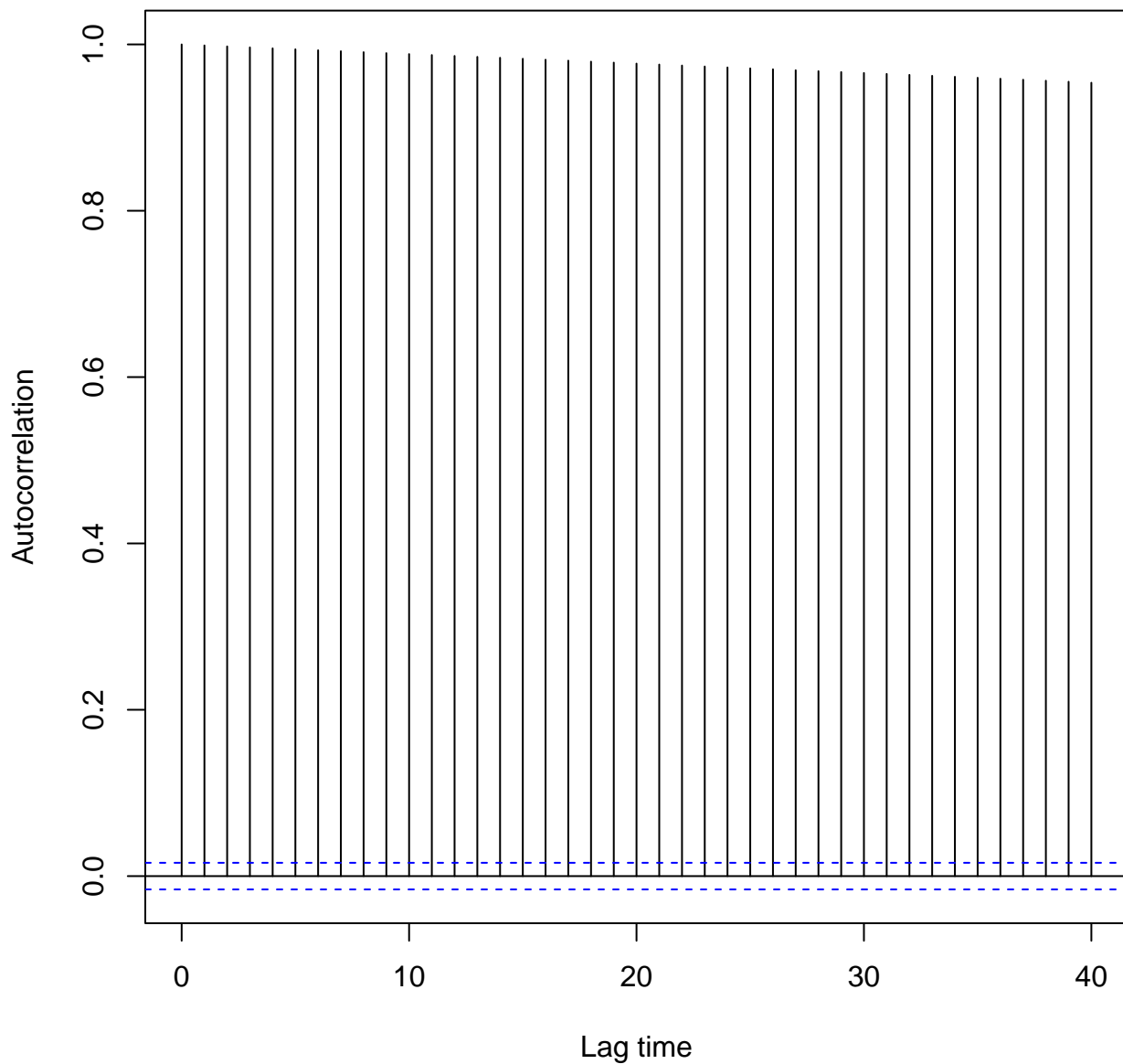
# Selection L CTG Mixture: 1



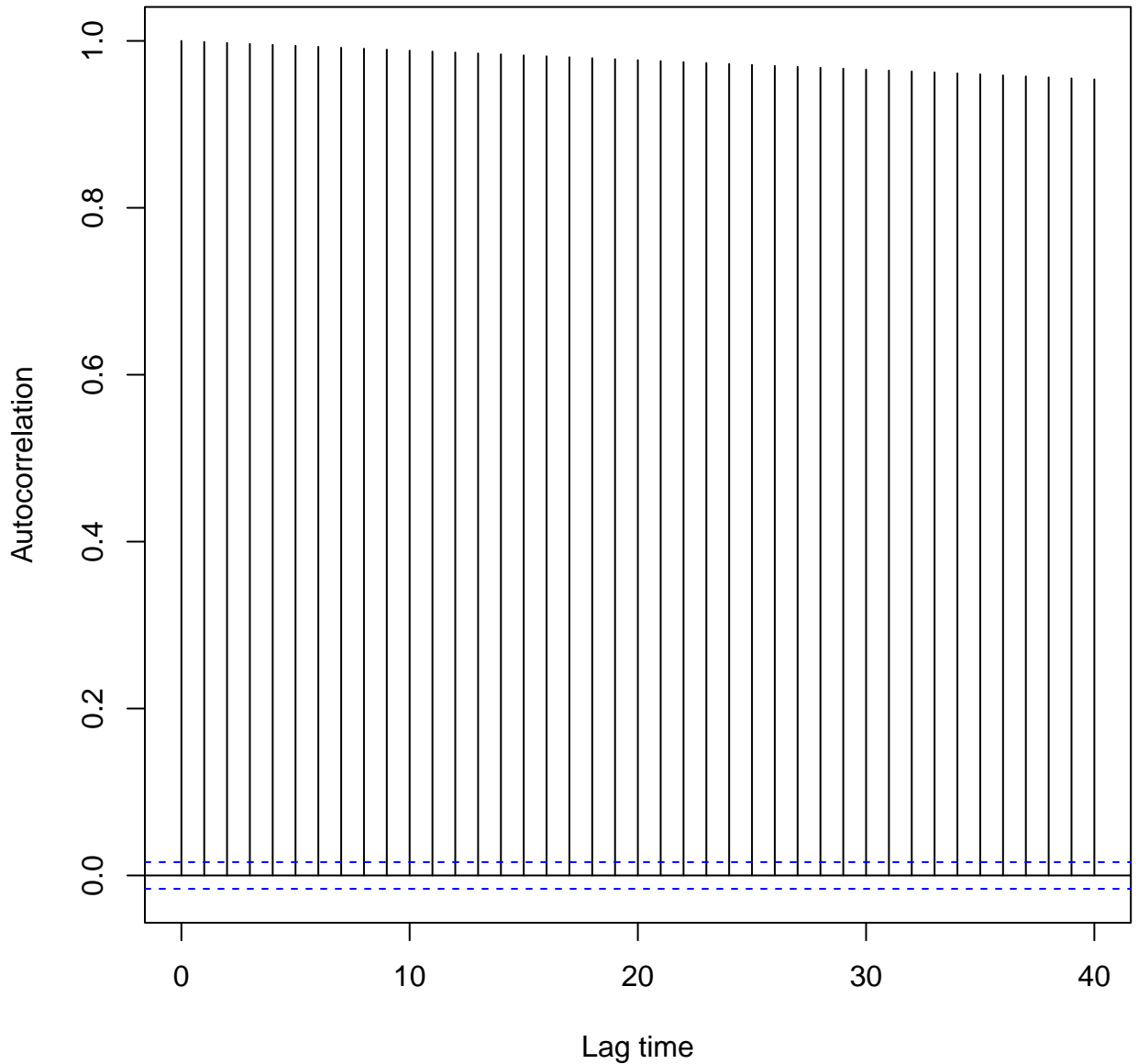
## Selection L CTG Mixture: 2



# Selection L CTT Mixture: 1

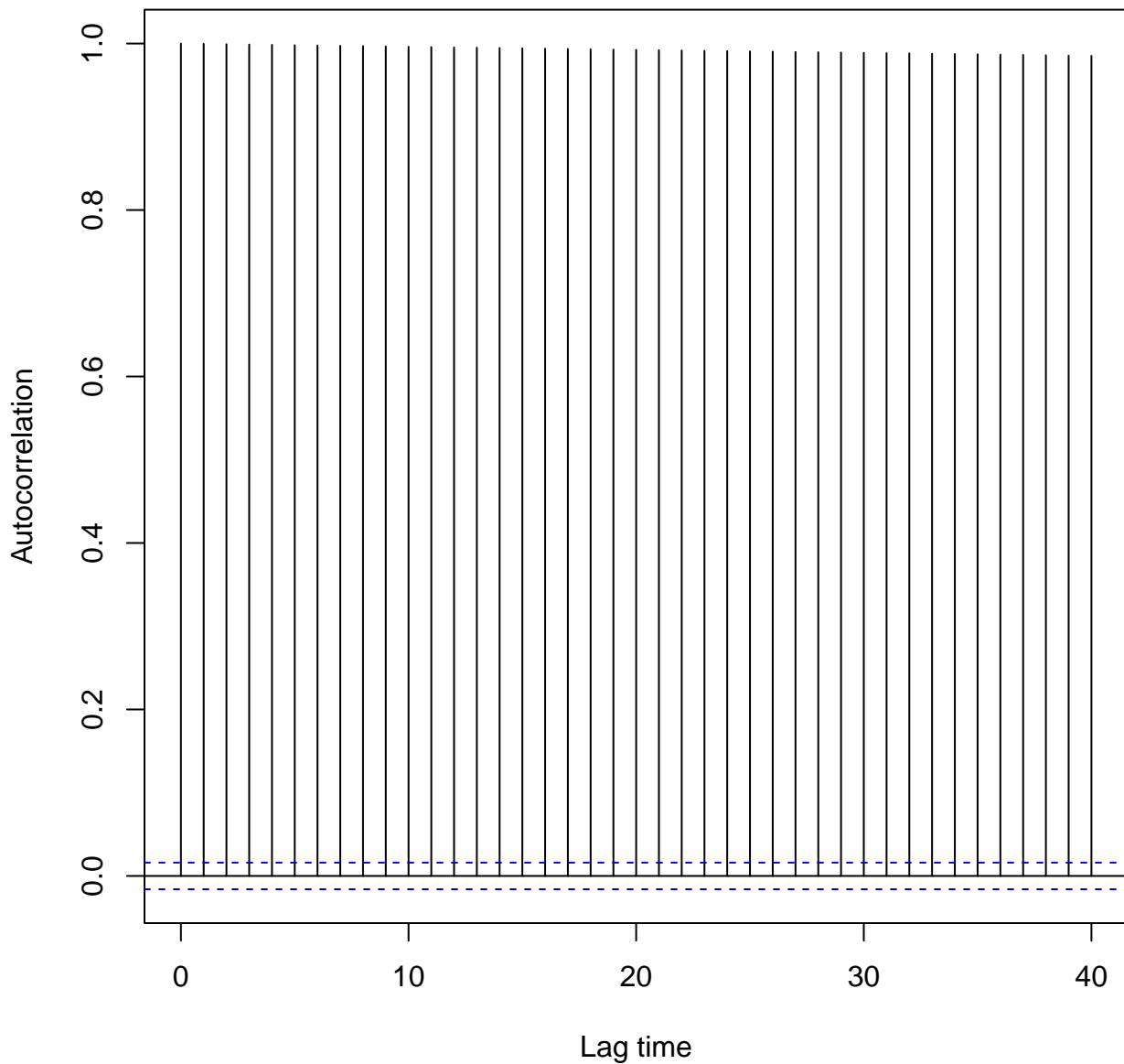


## Selection L CTT Mixture: 2

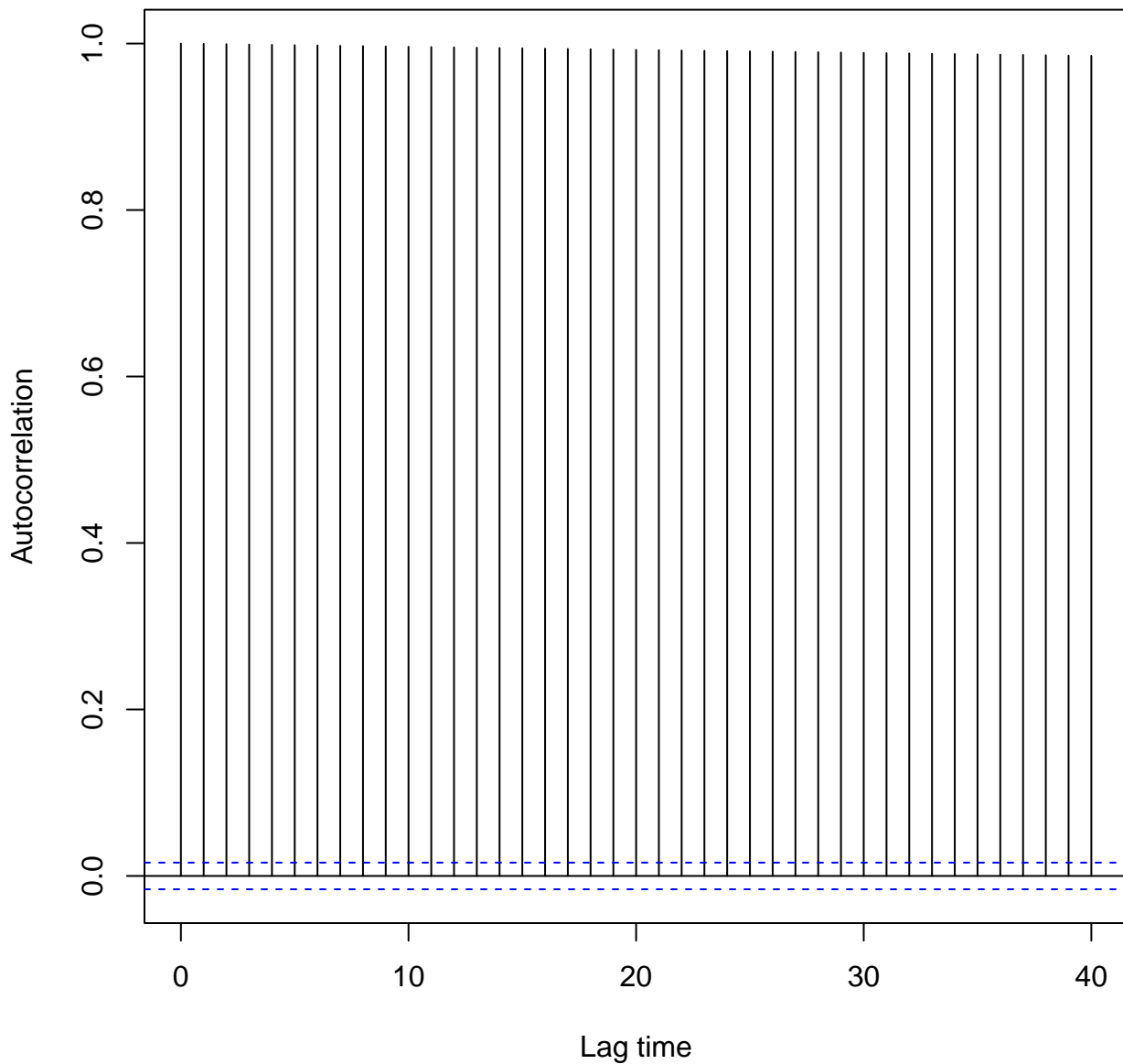




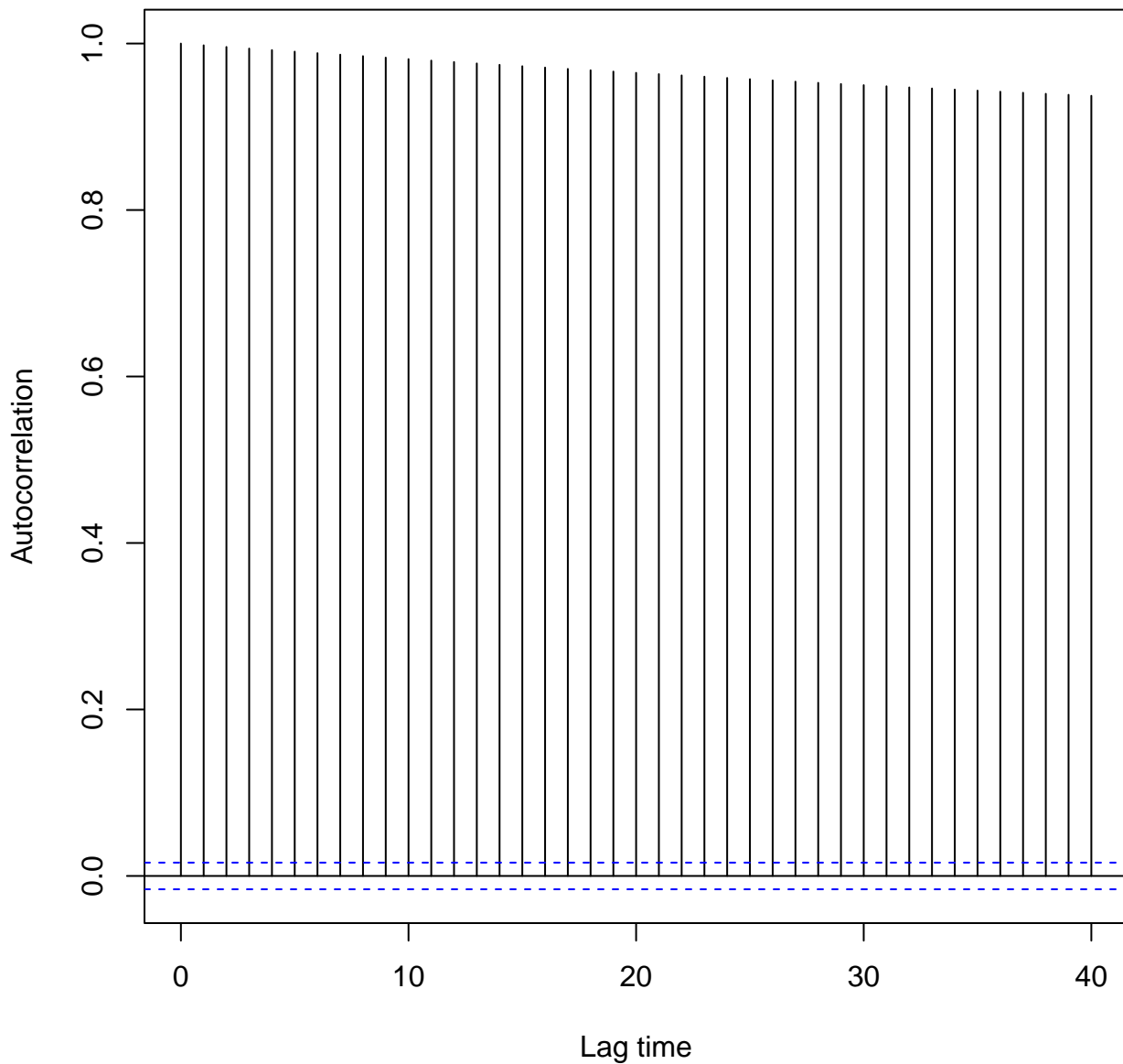
# Selection L TTA Mixture: 1



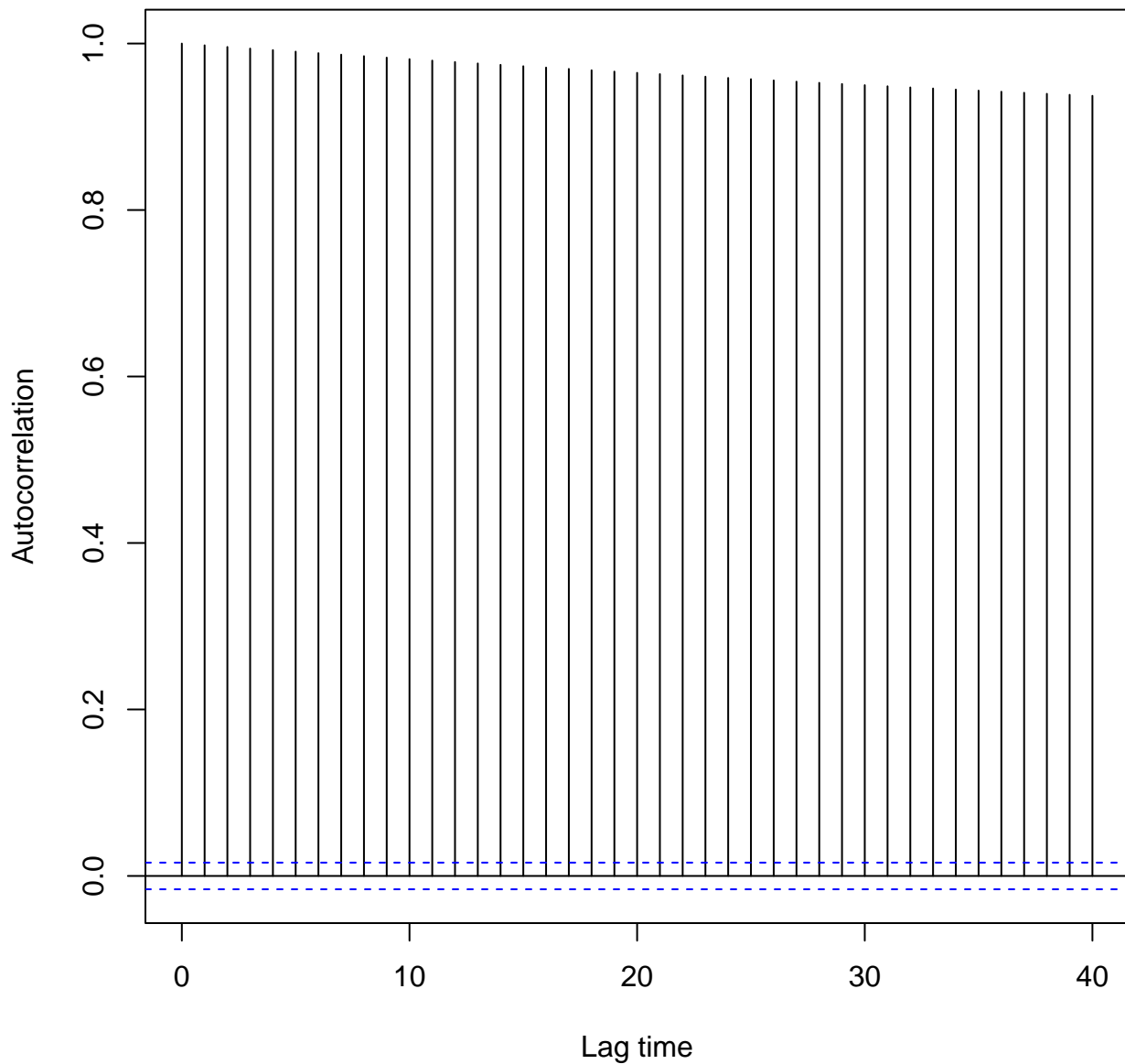
## Selection L TTA Mixture: 2



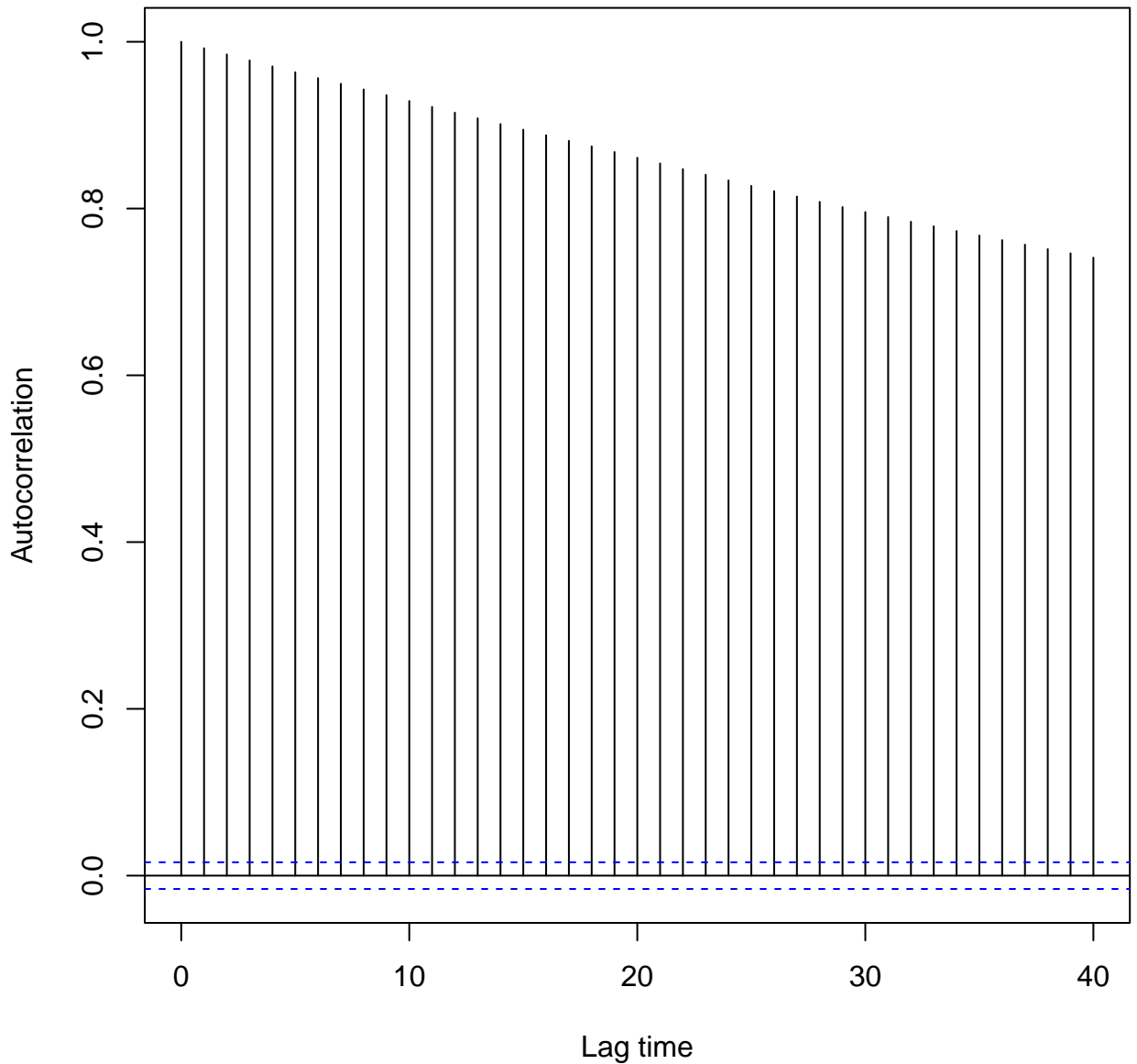
# Selection N AAC Mixture: 1



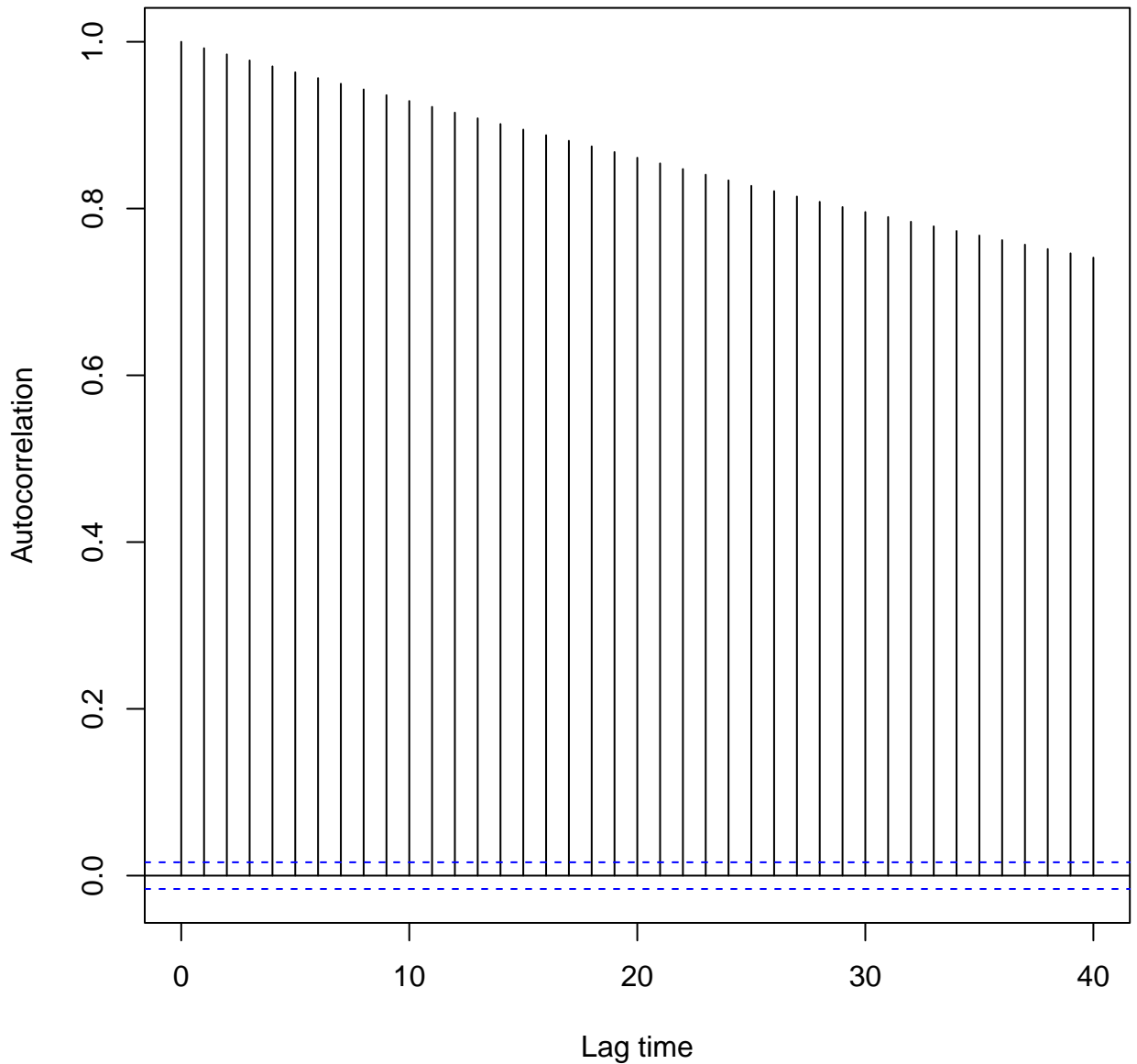
## Selection N AAC Mixture: 2



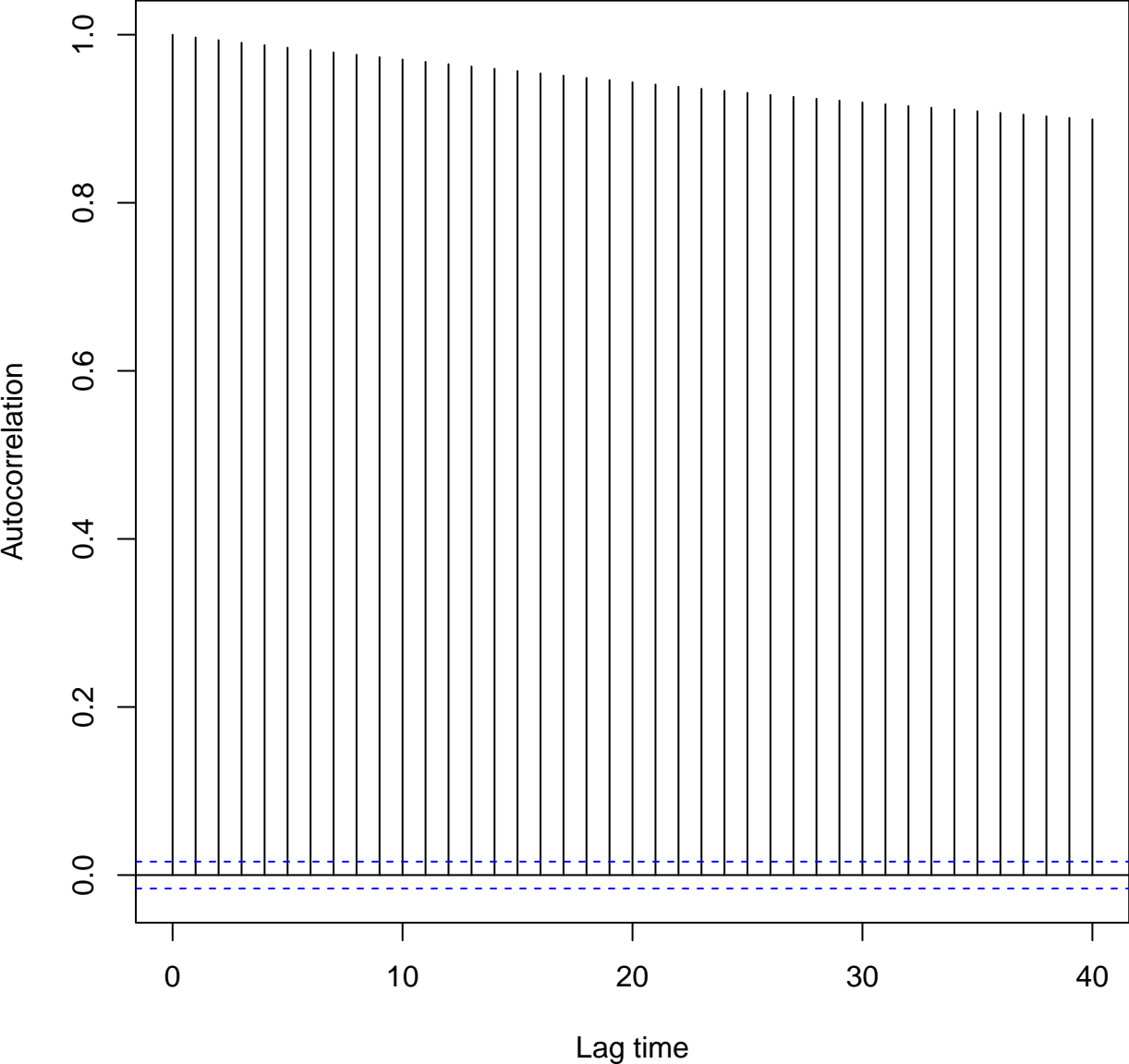
# Selection P CCA Mixture: 1



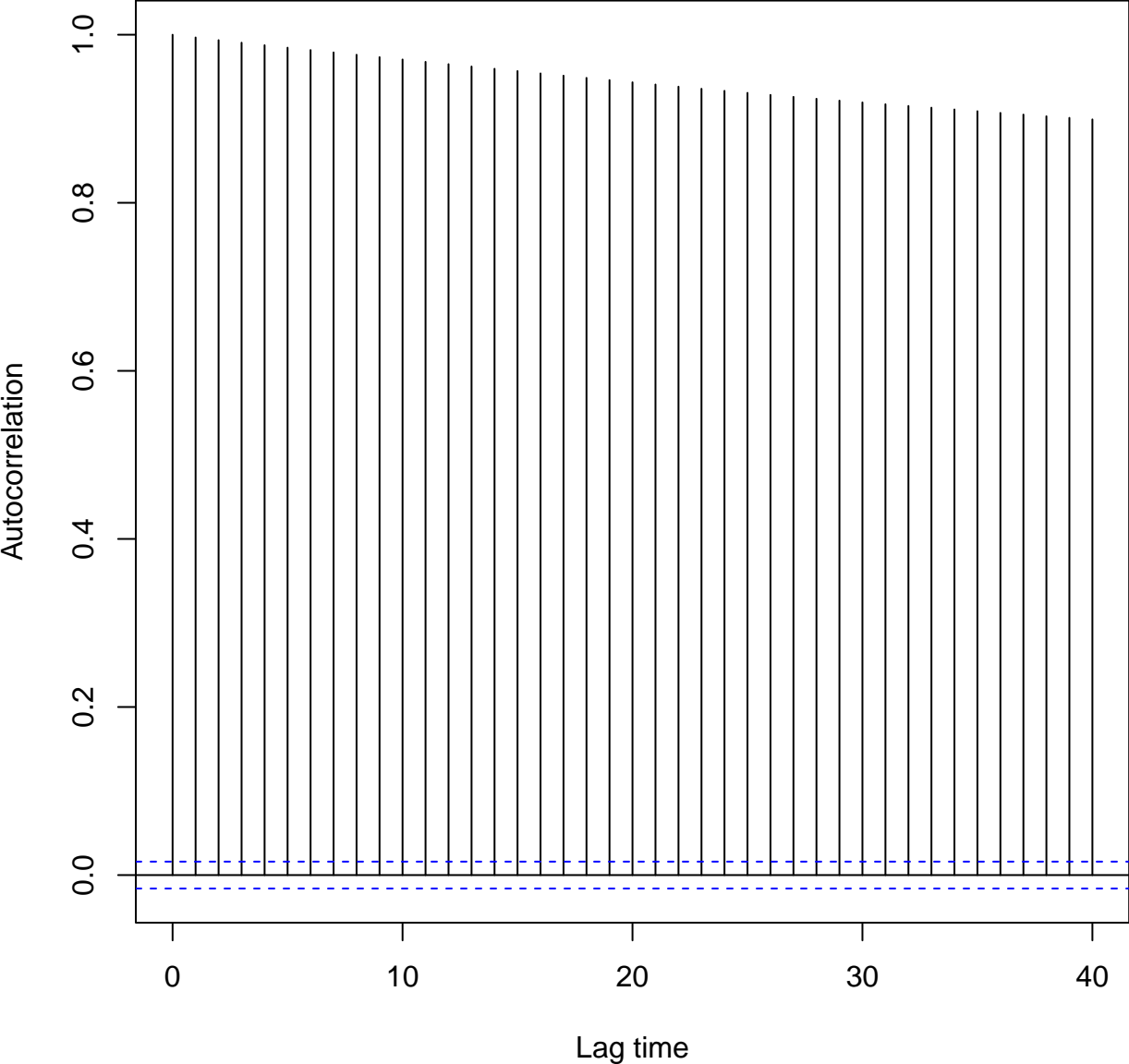
## Selection P CCA Mixture: 2



Selection P CCC Mixture: 1

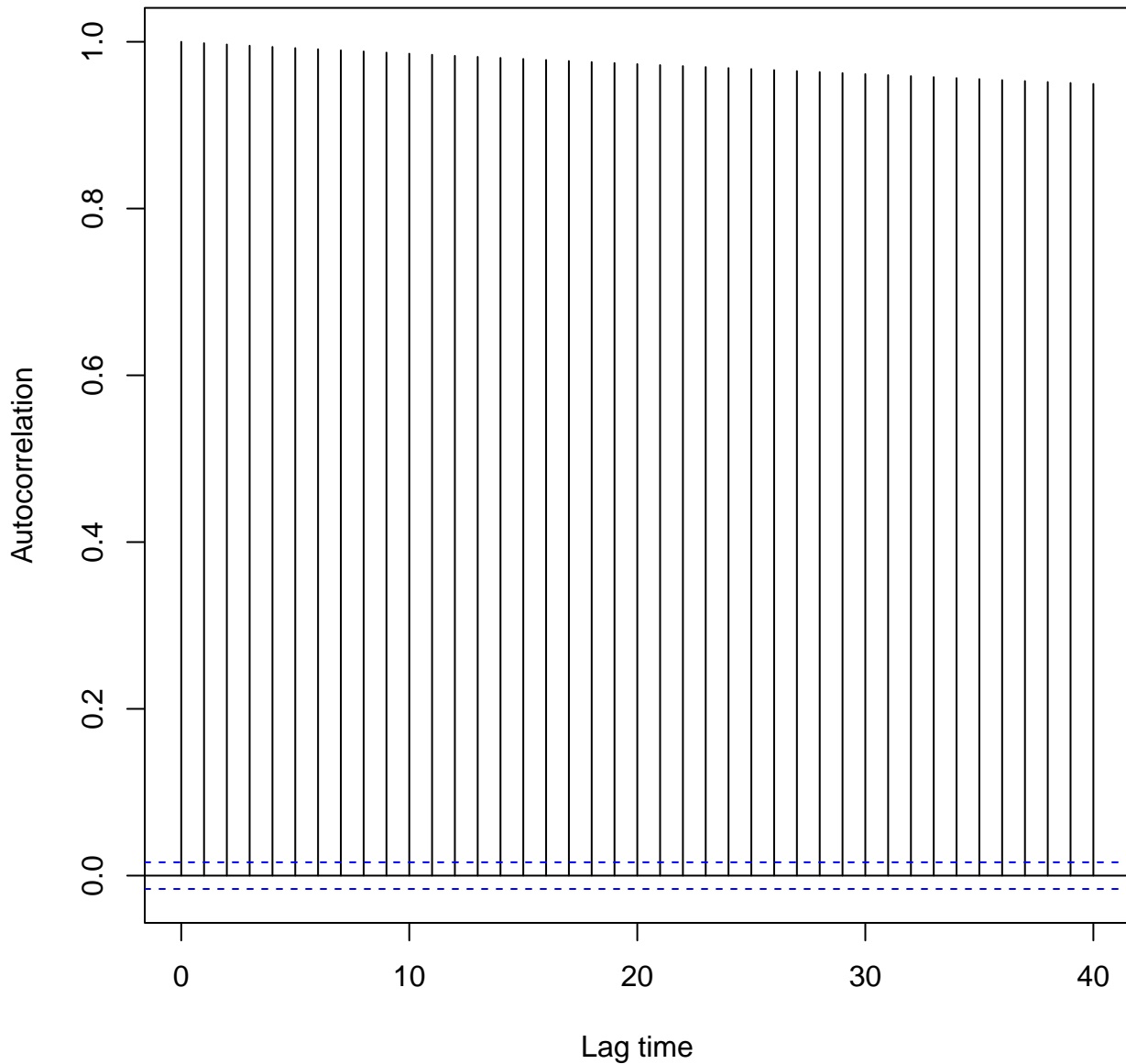


Selection P CCC Mixture: 2

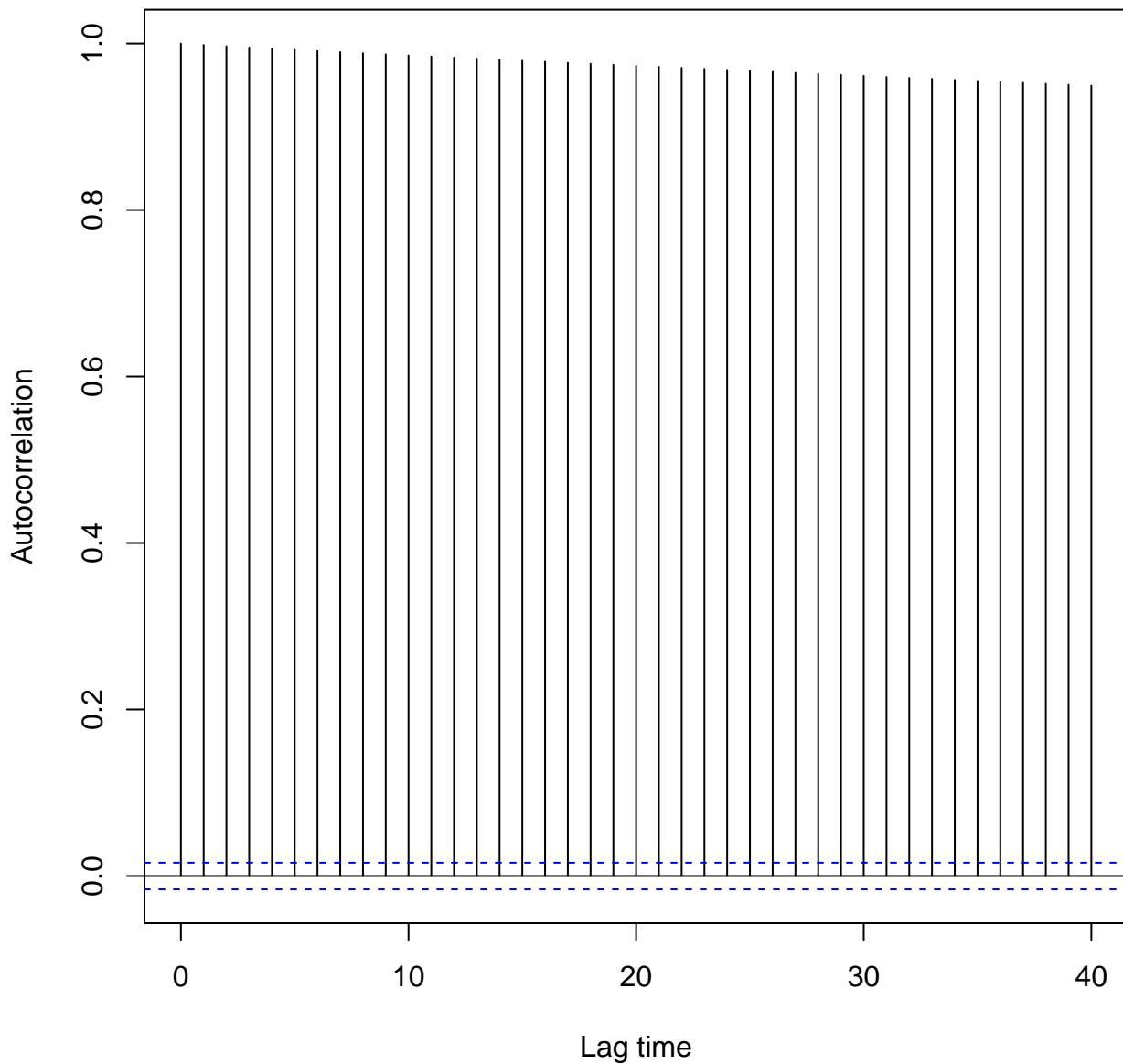




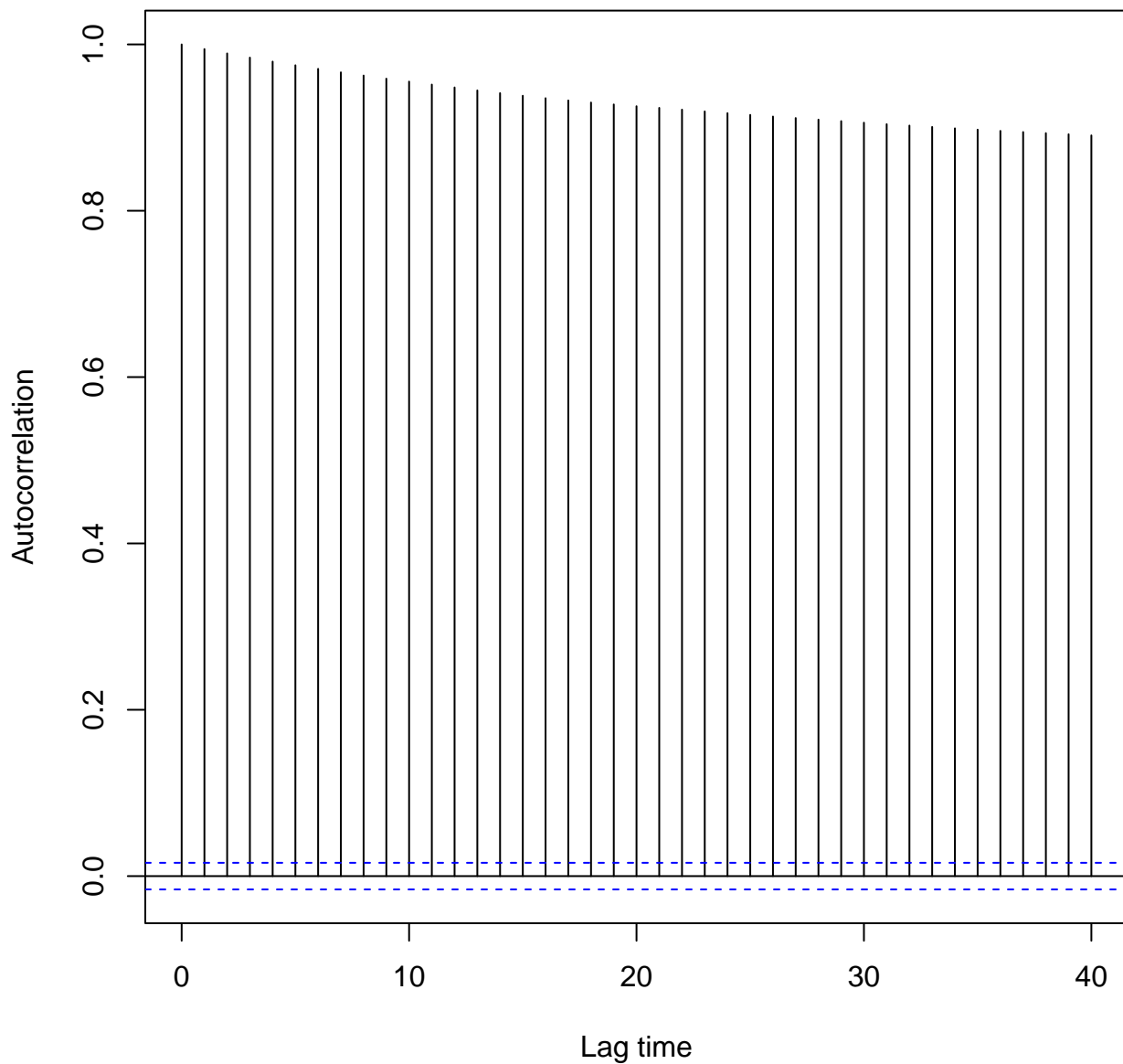
# Selection P CCG Mixture: 1



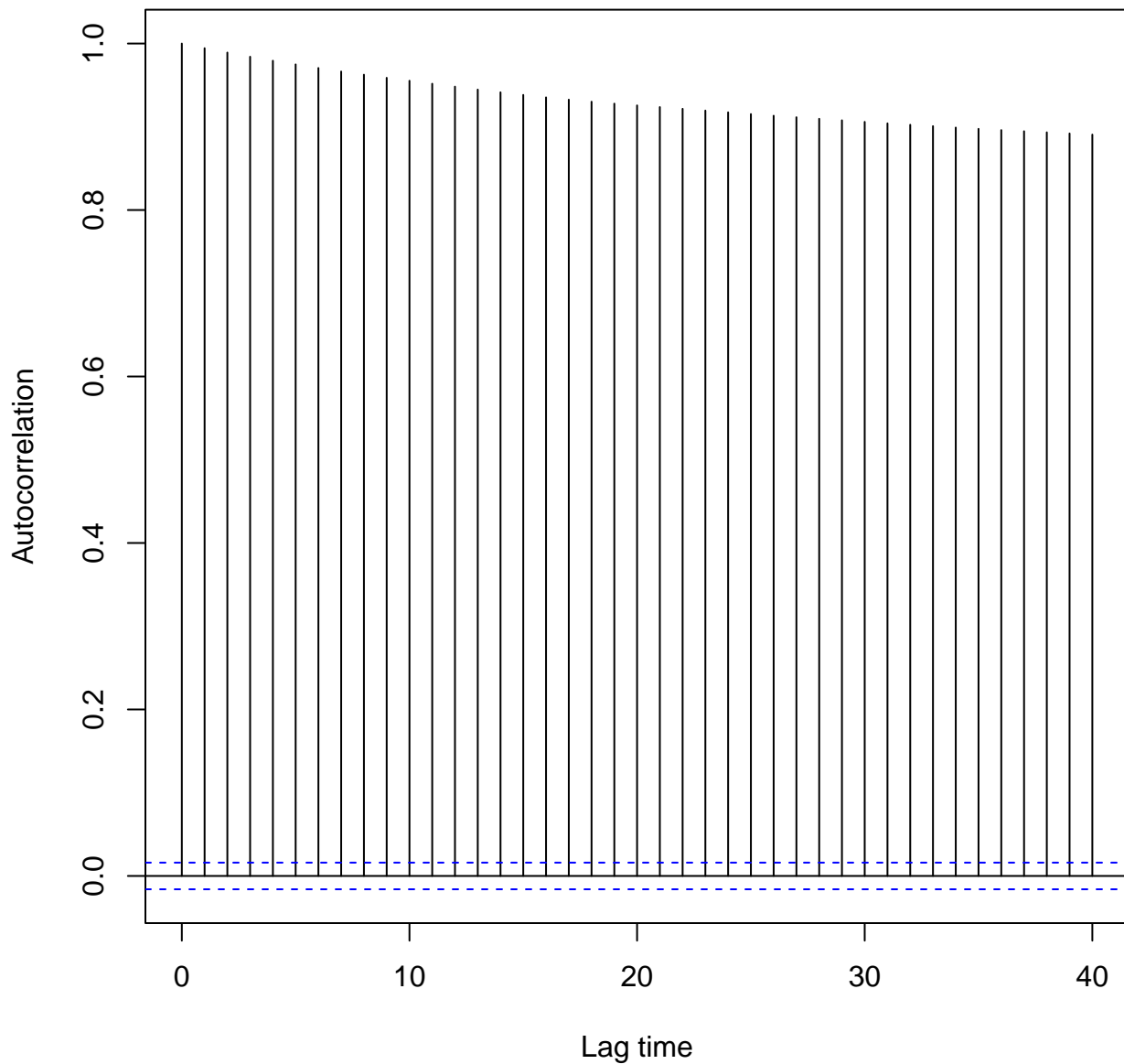
## Selection P CCG Mixture: 2



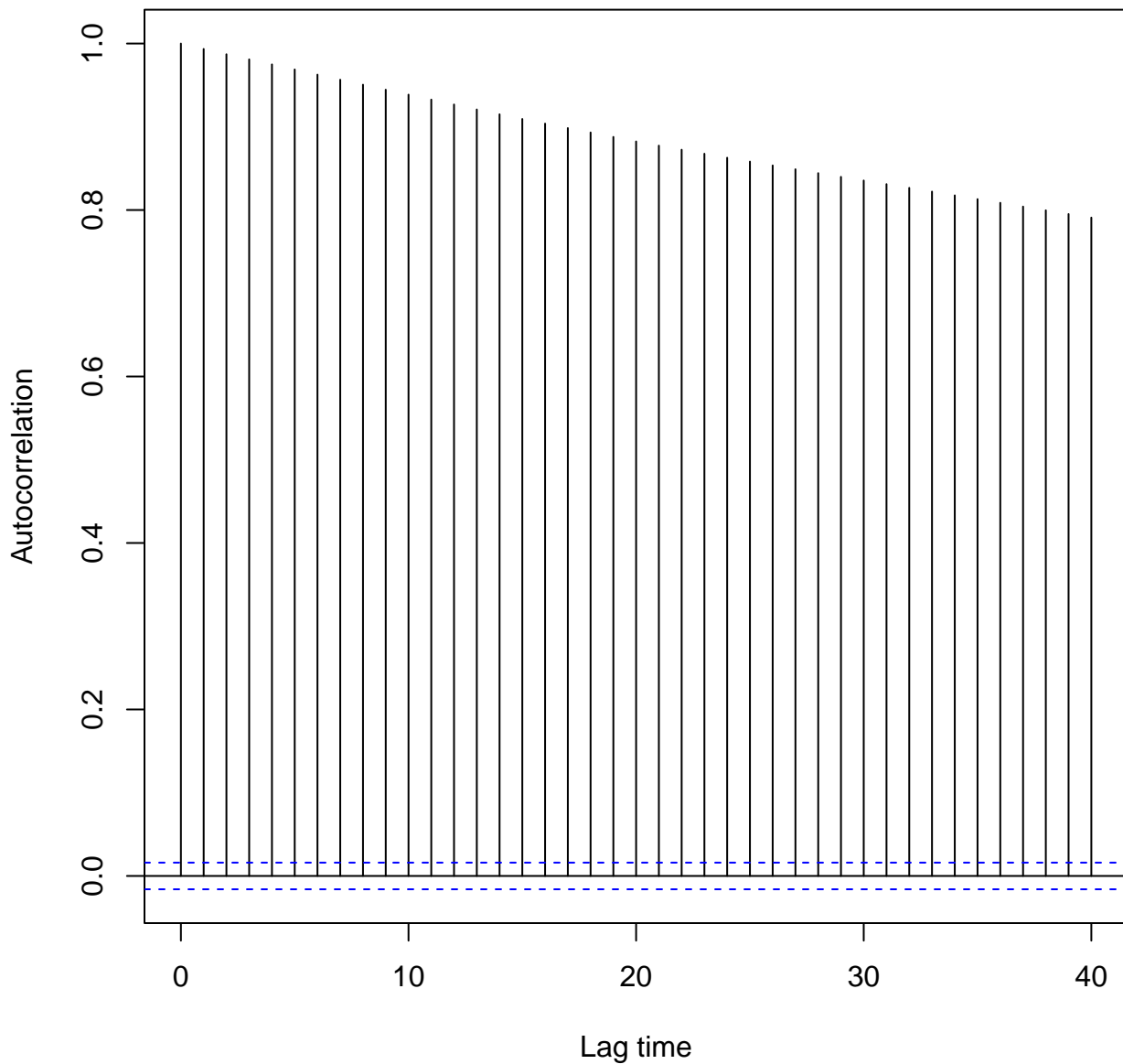
# Selection Q CAA Mixture: 1



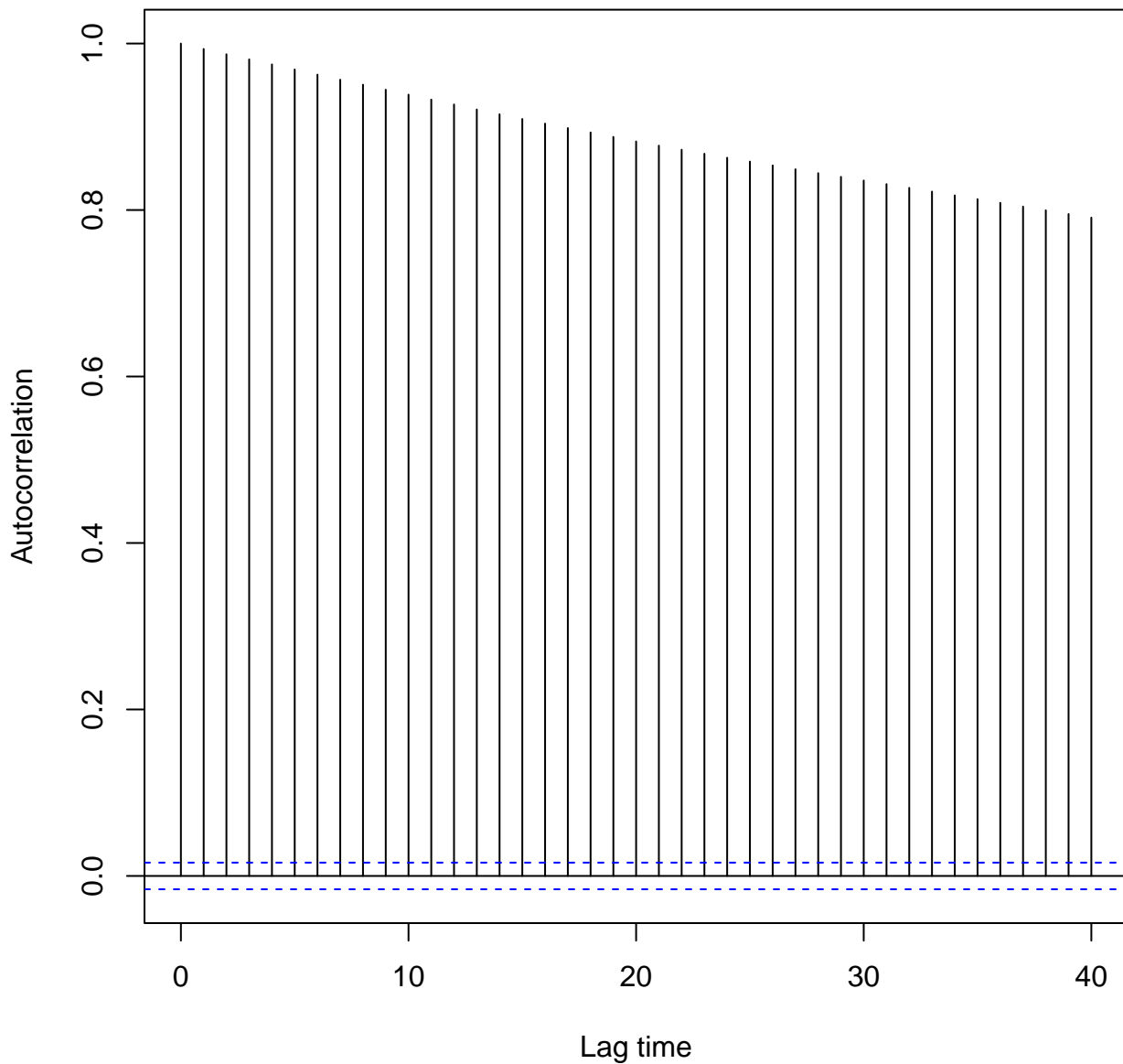
## Selection Q CAA Mixture: 2



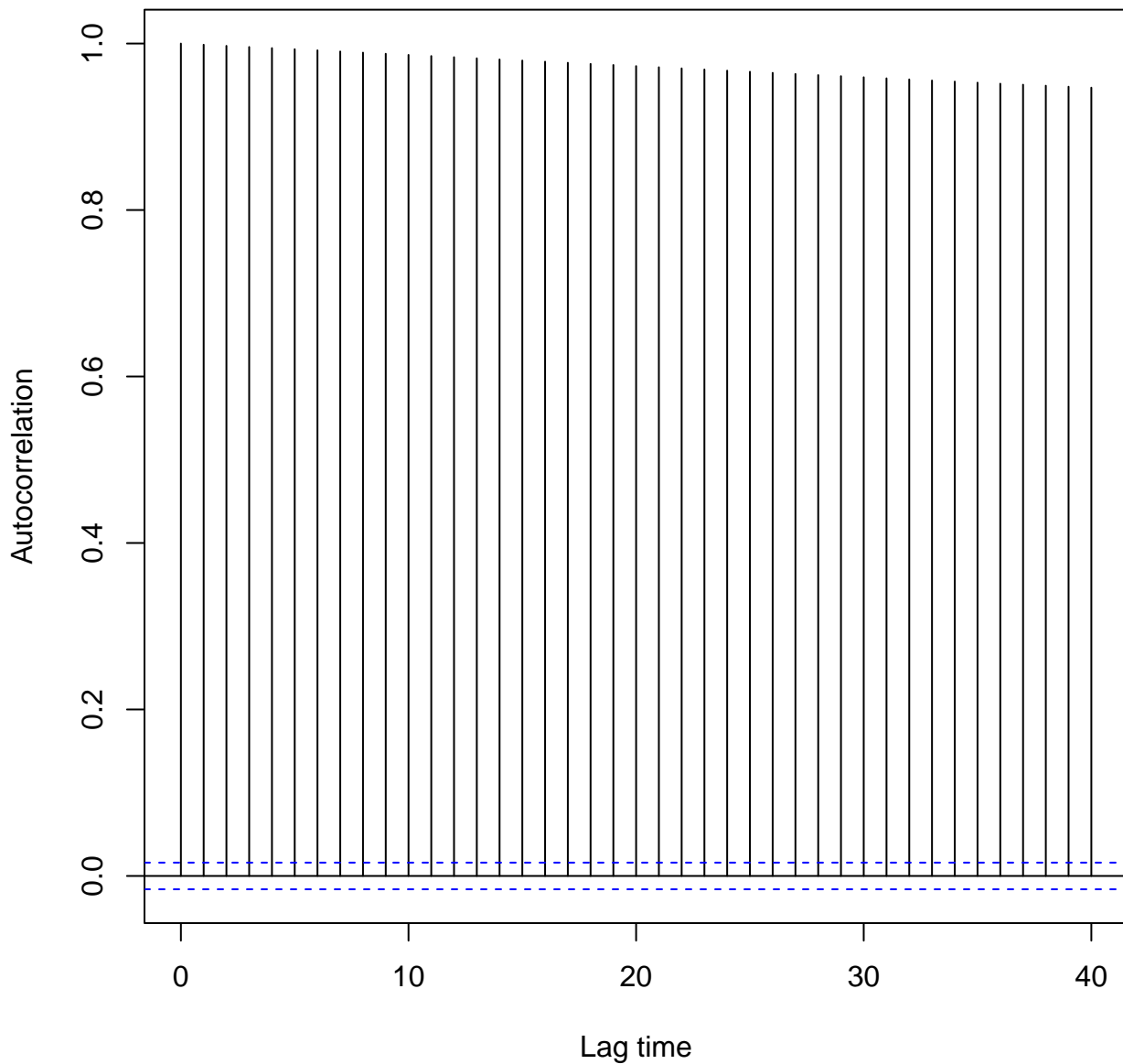
# Selection R AGA Mixture: 1



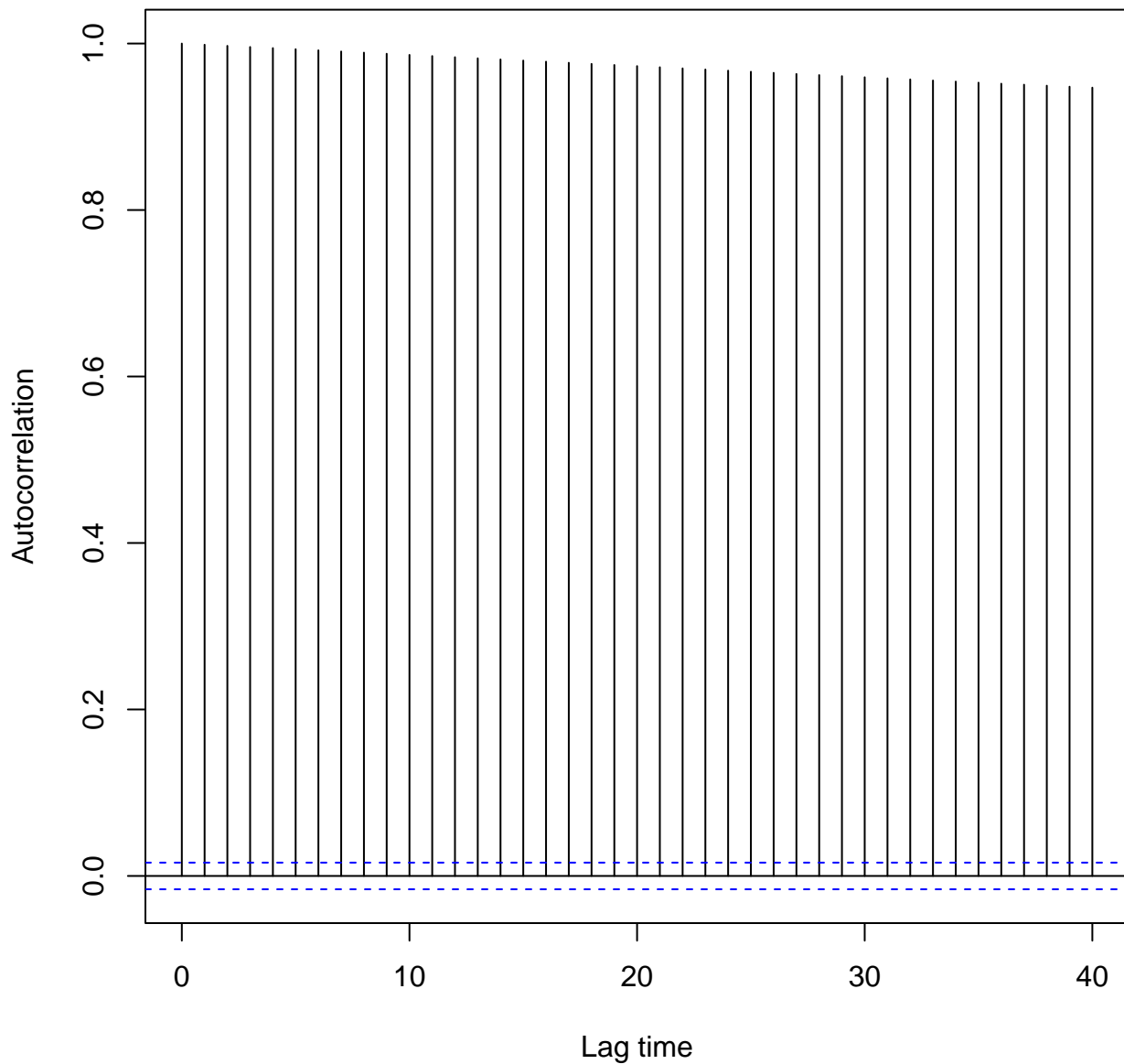
## Selection R AGA Mixture: 2



# Selection R AGG Mixture: 1

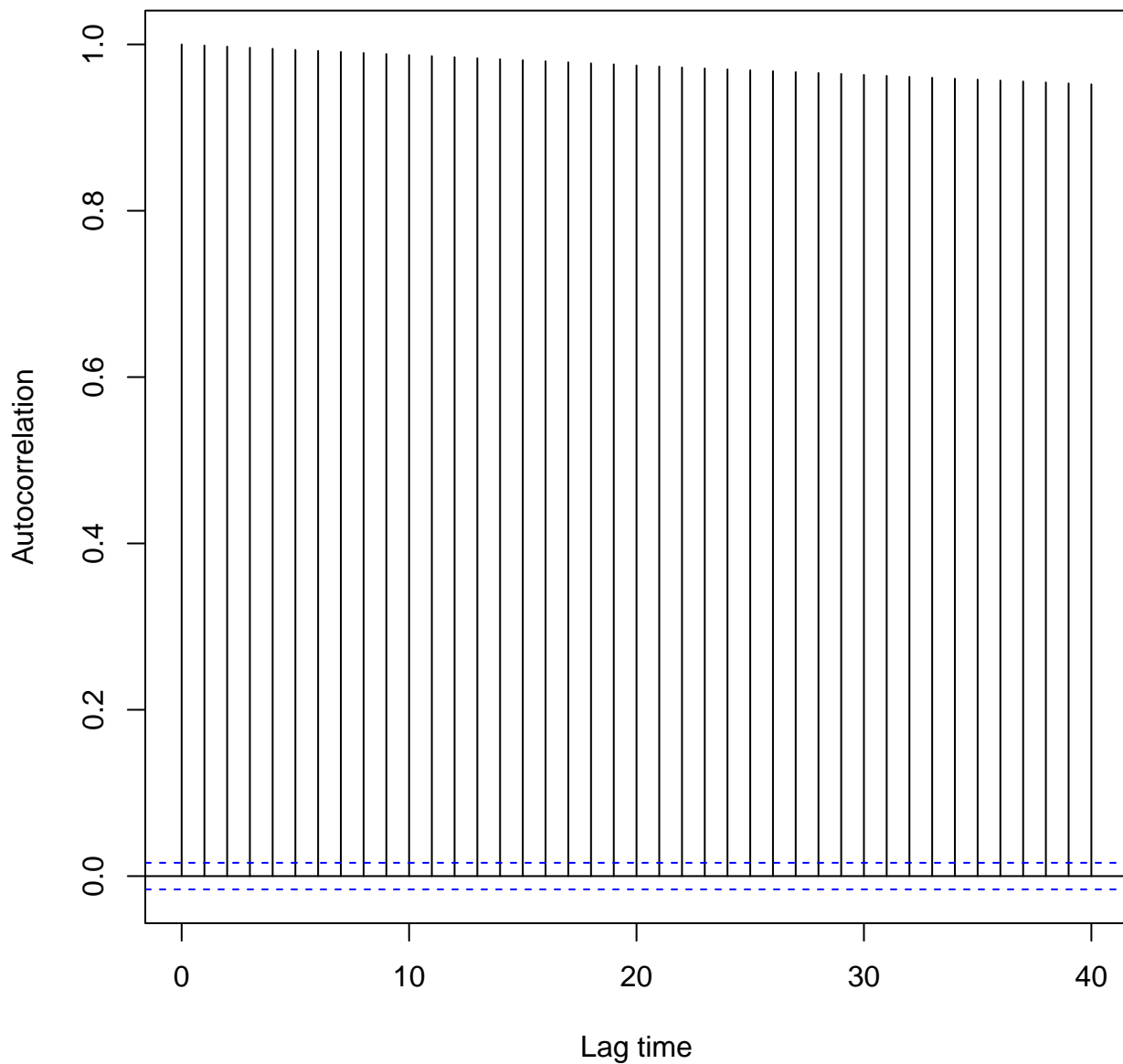


## Selection R AGG Mixture: 2

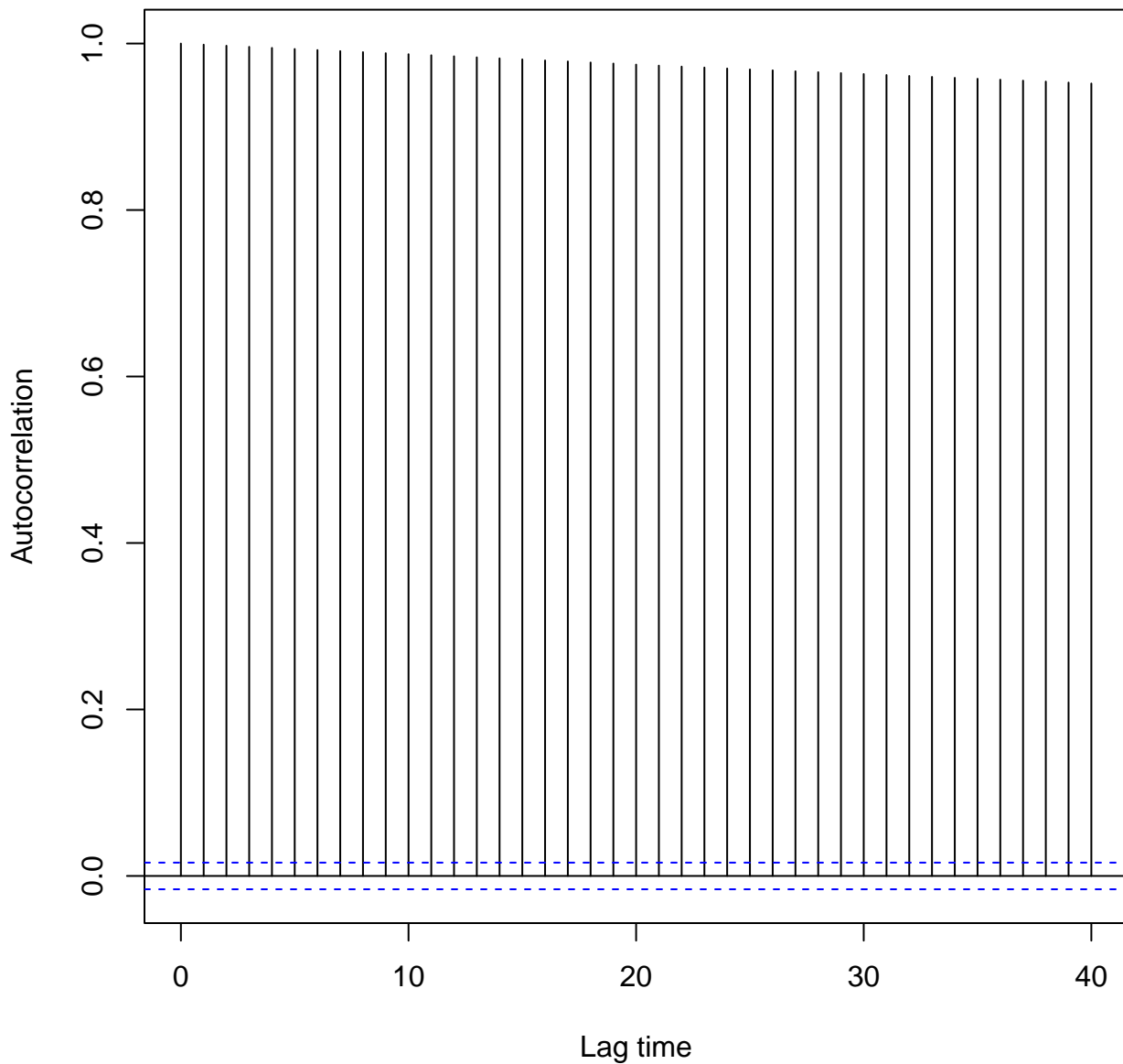




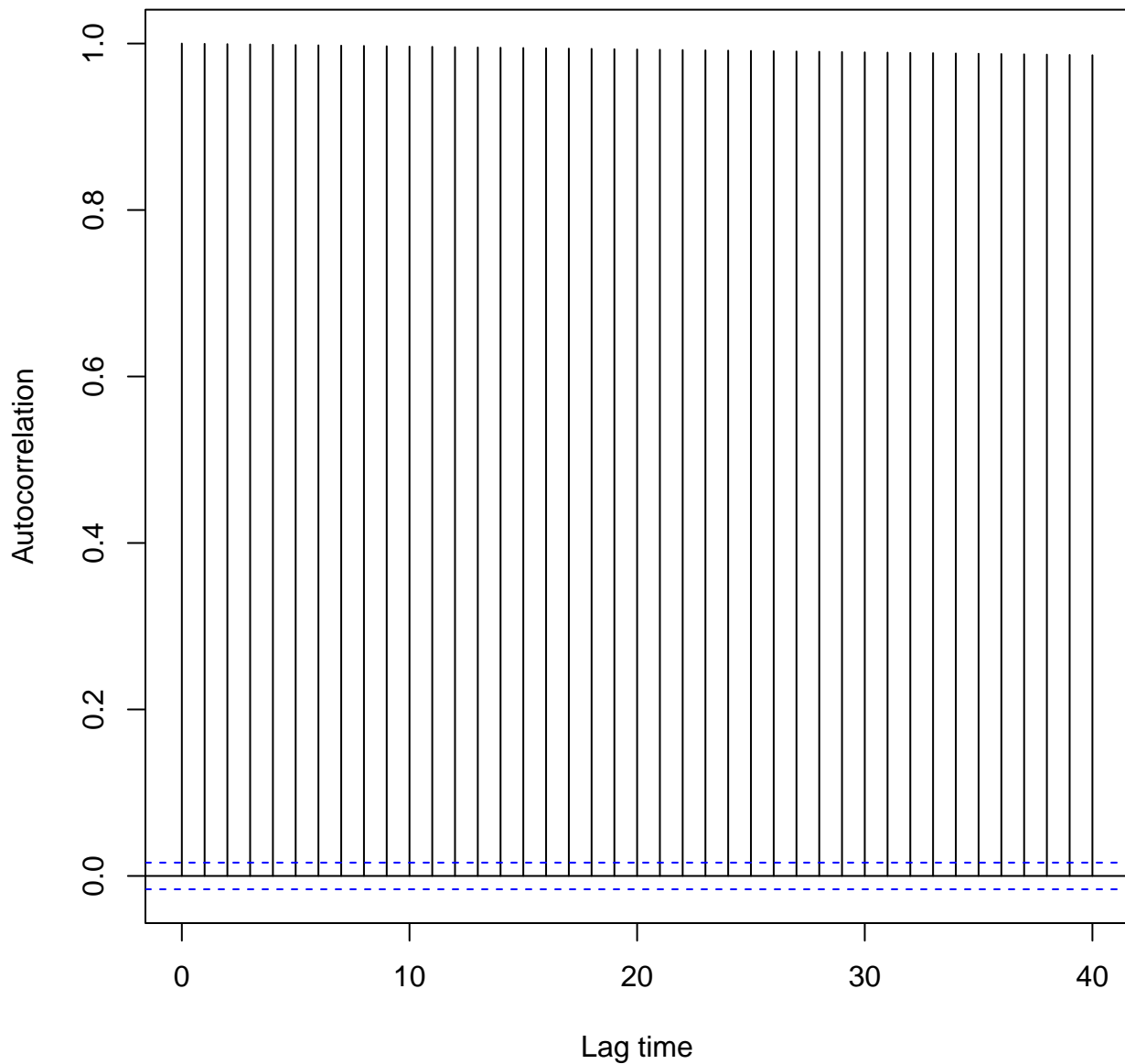
# Selection R CGA Mixture: 1



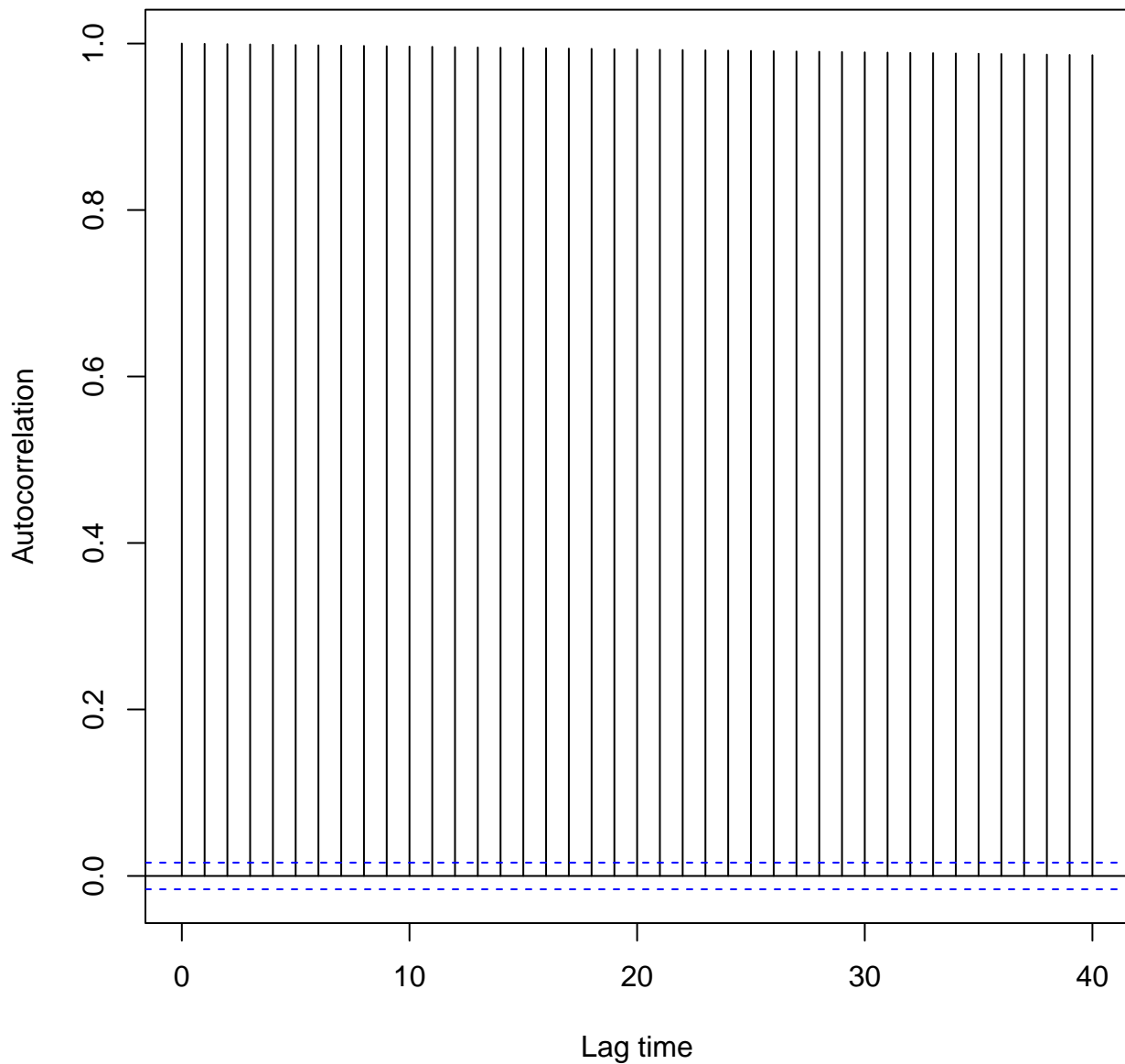
## Selection R CGA Mixture: 2



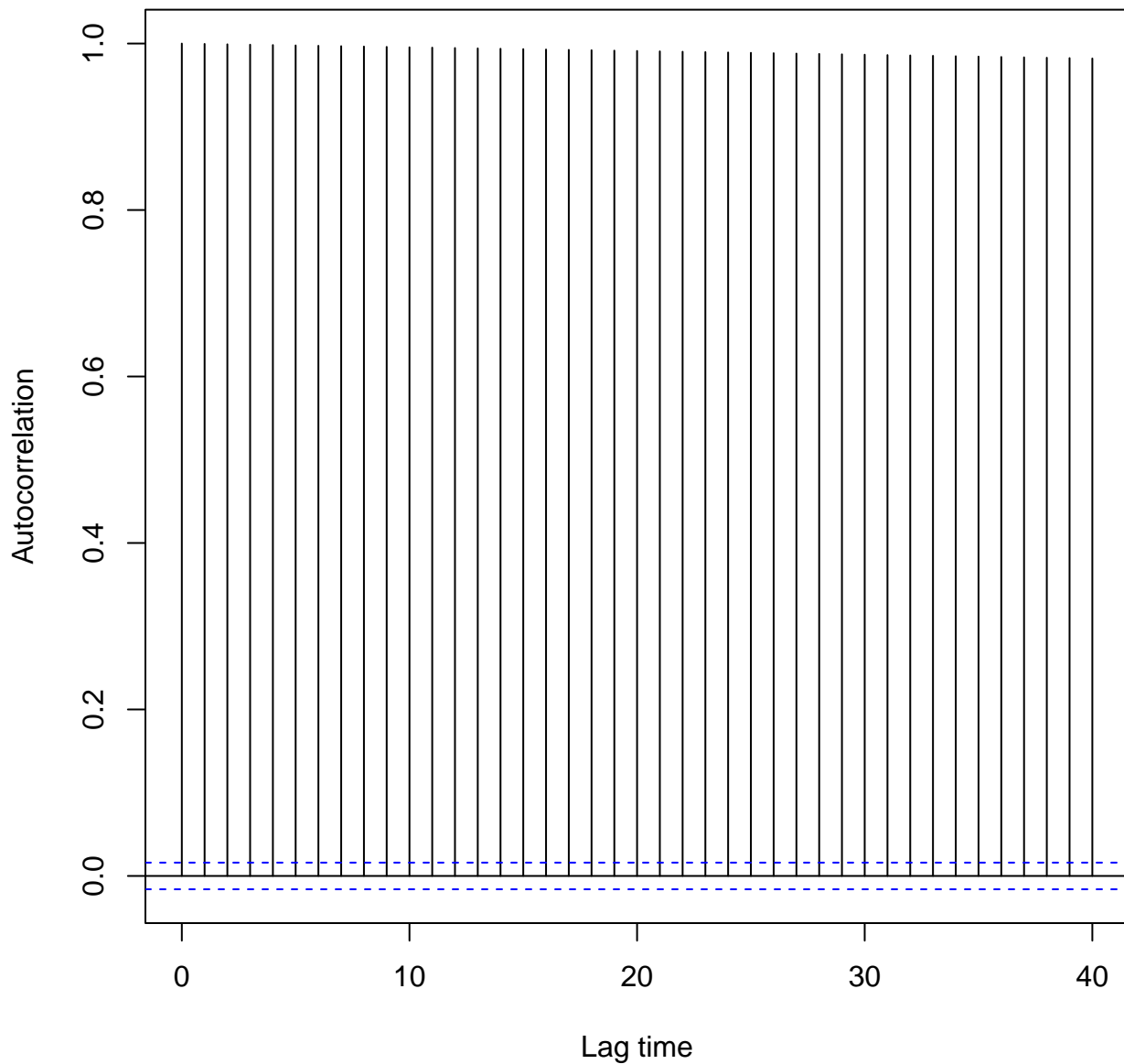
# Selection R CGC Mixture: 1



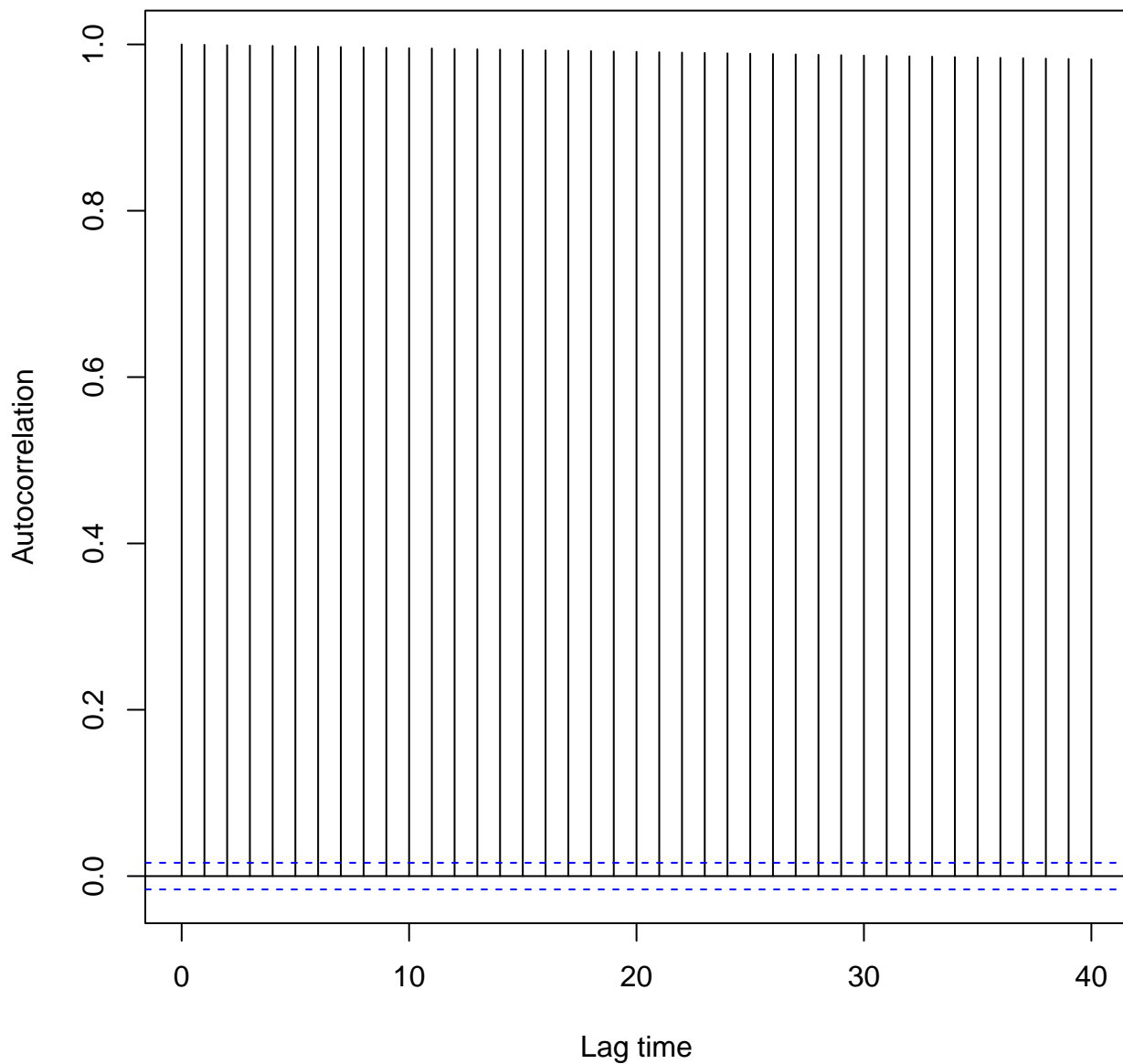
## Selection R CGC Mixture: 2



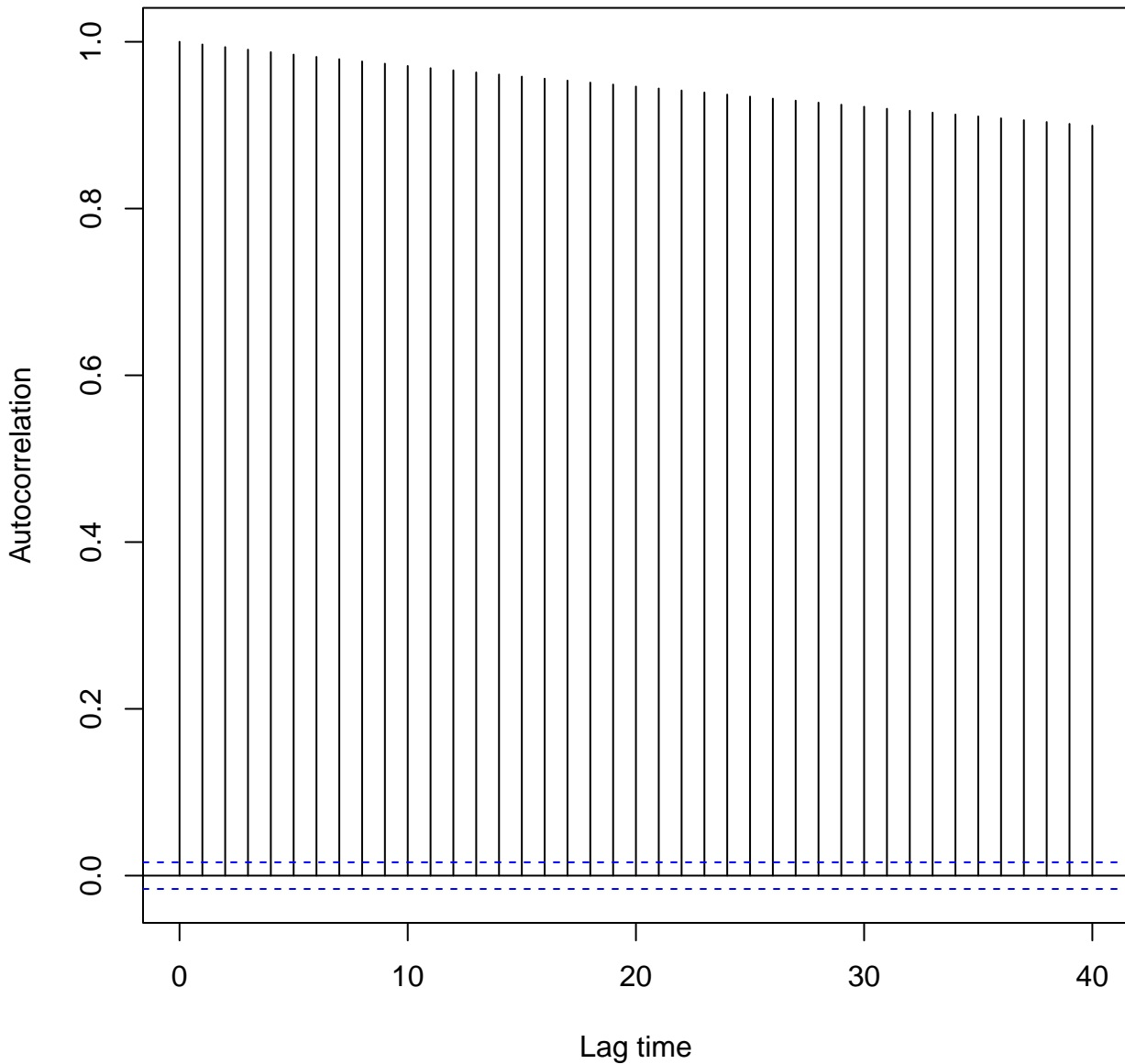
# Selection R CGG Mixture: 1



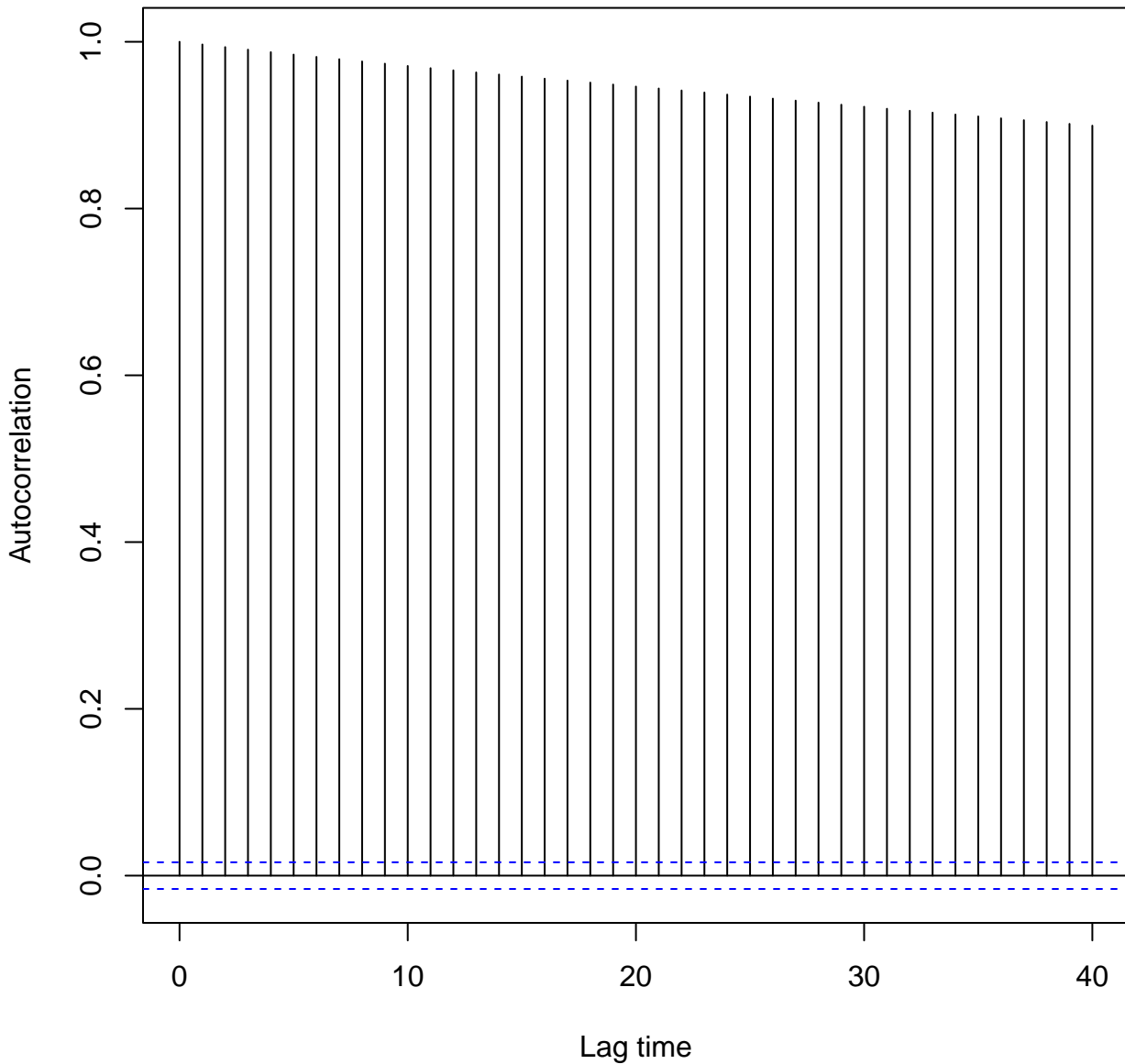
## Selection R CGG Mixture: 2



# Selection S TCA Mixture: 1

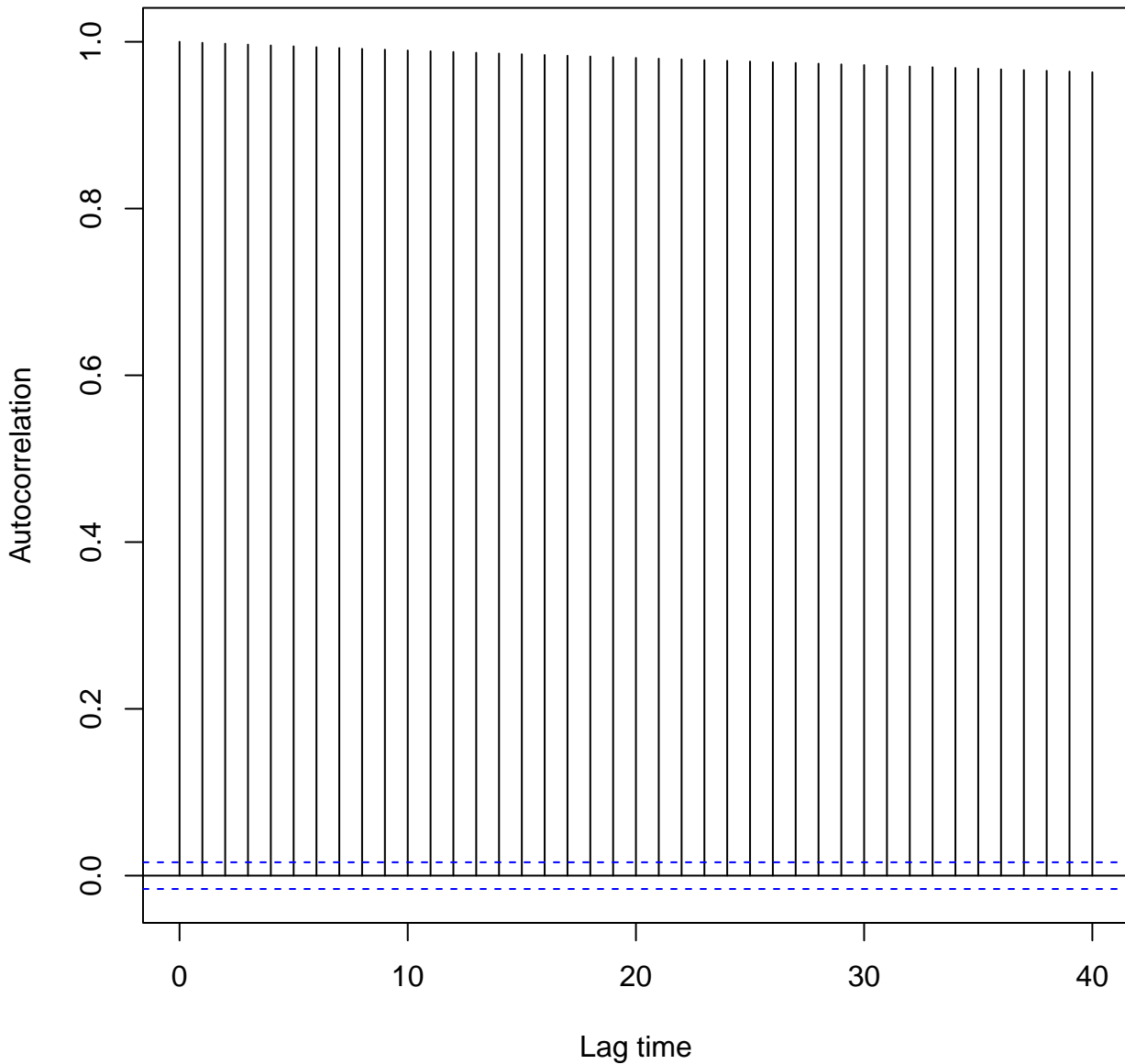


## Selection S TCA Mixture: 2

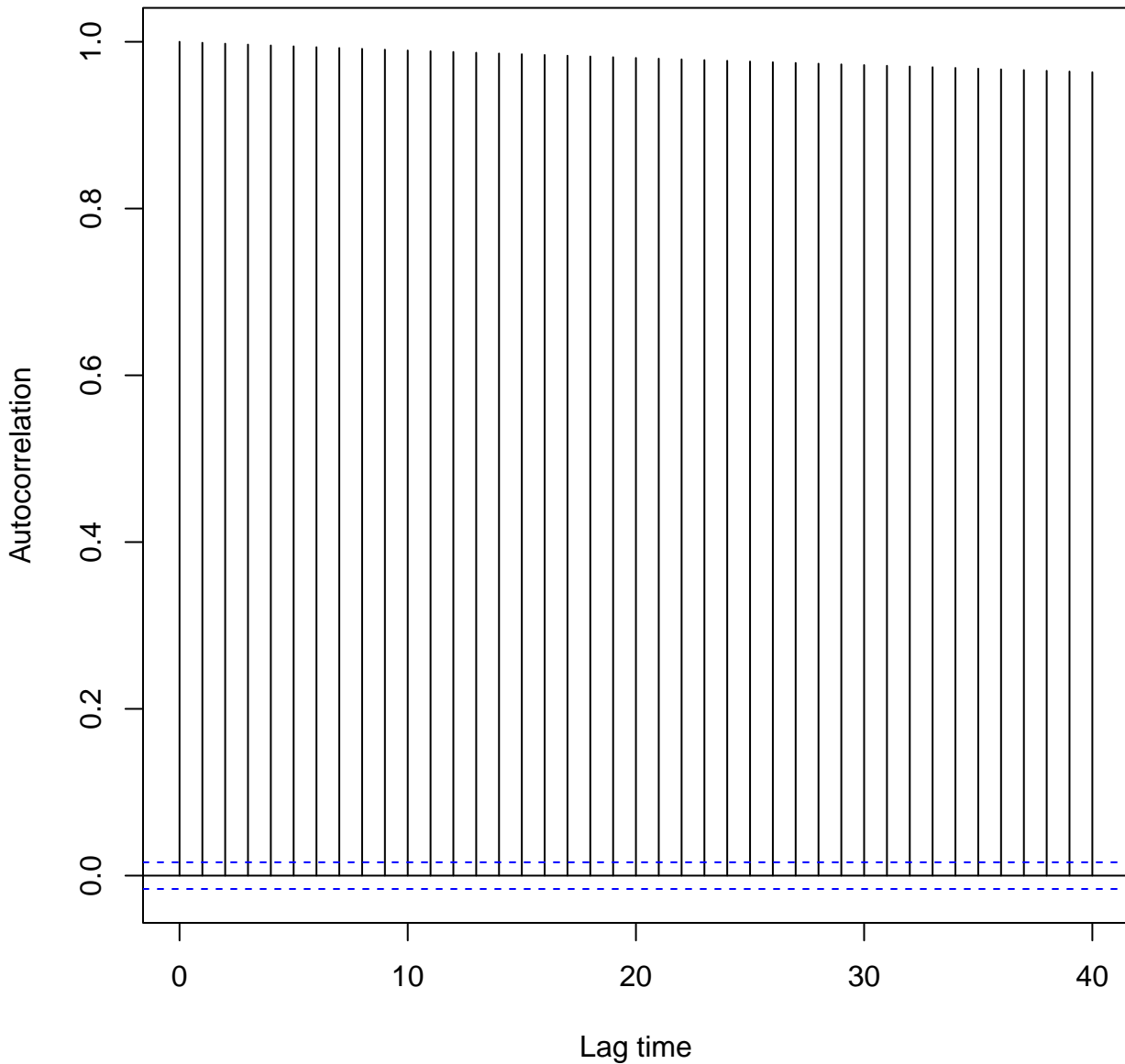




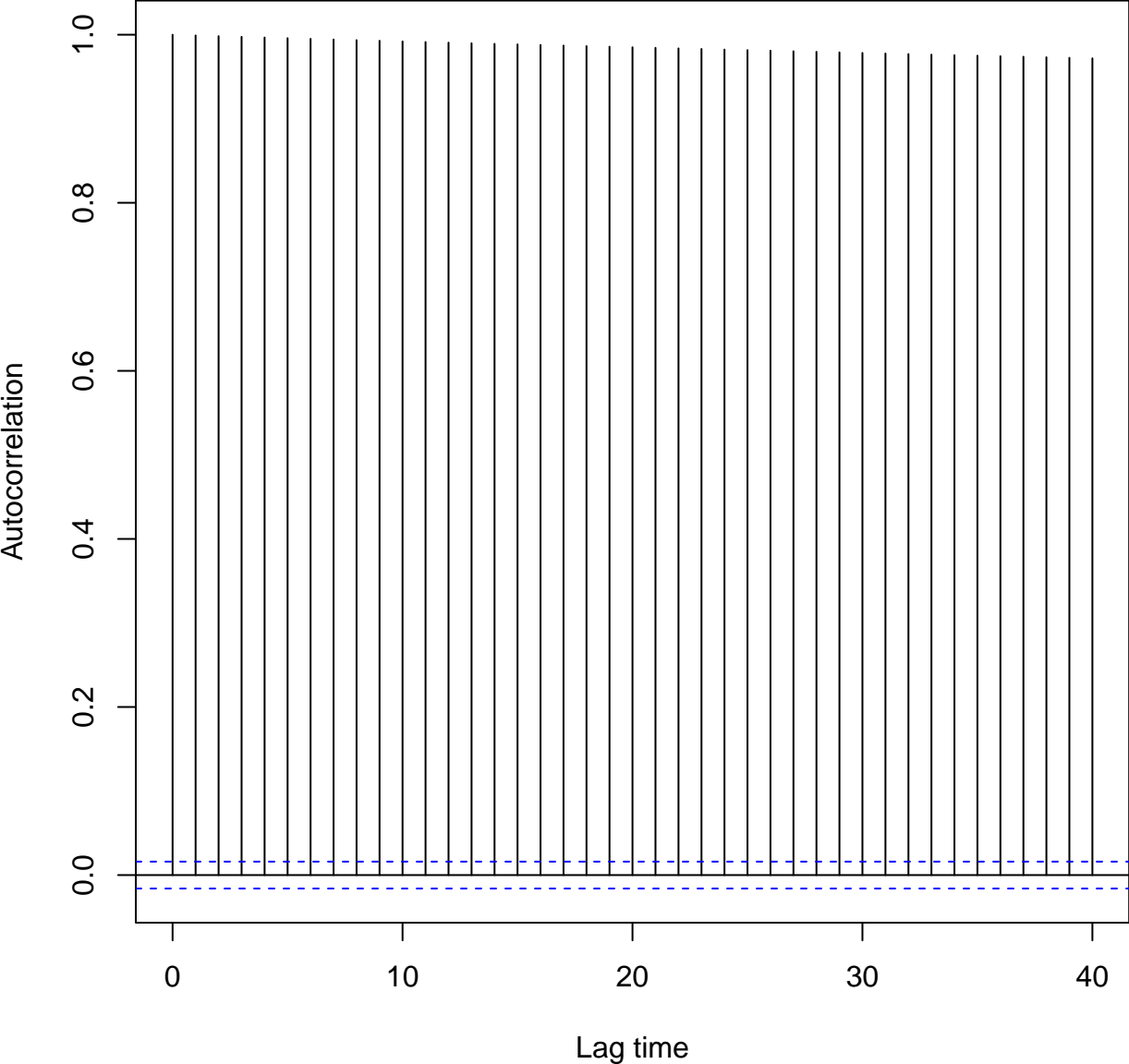
# Selection S TCC Mixture: 1



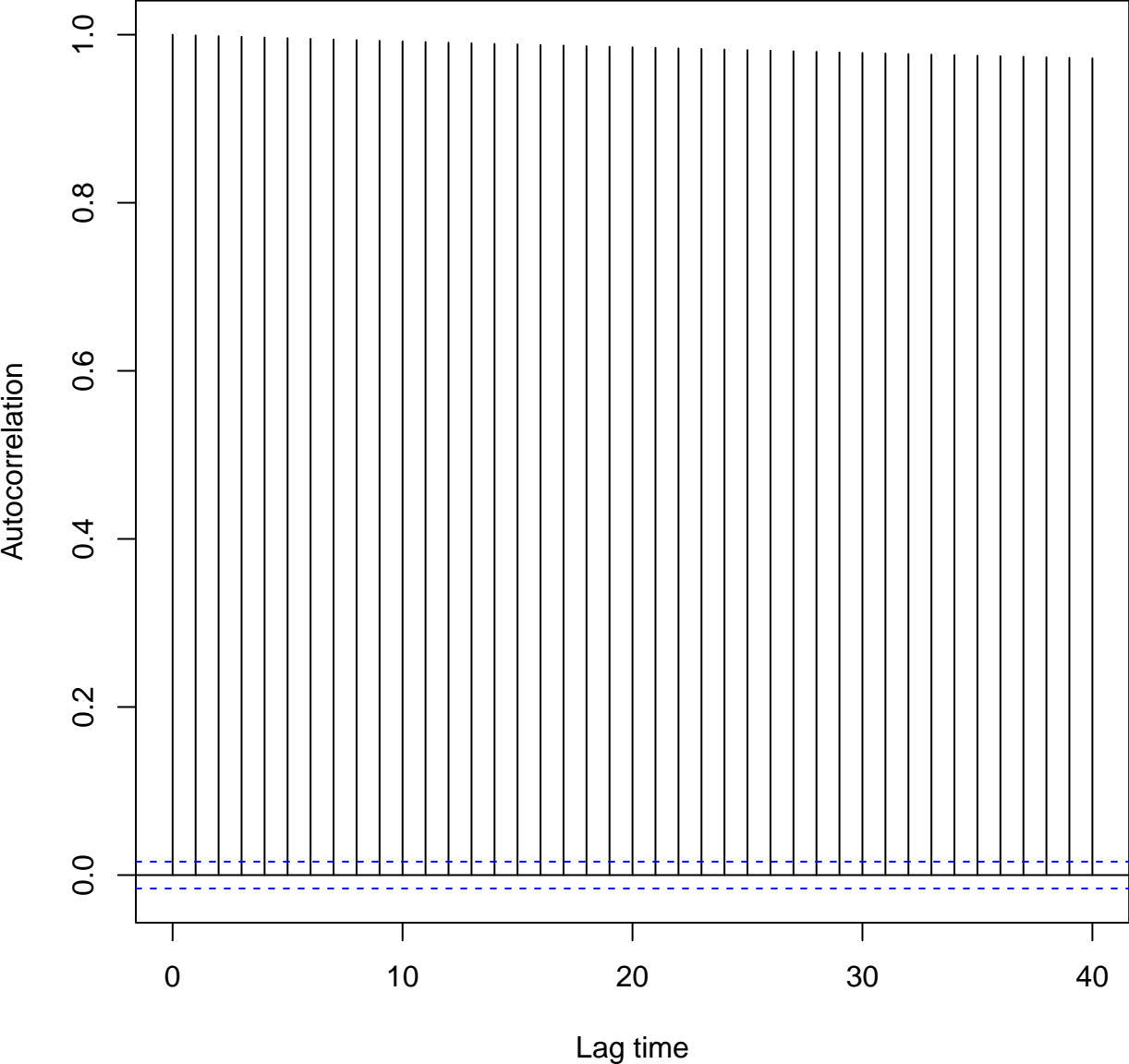
## Selection S TCC Mixture: 2



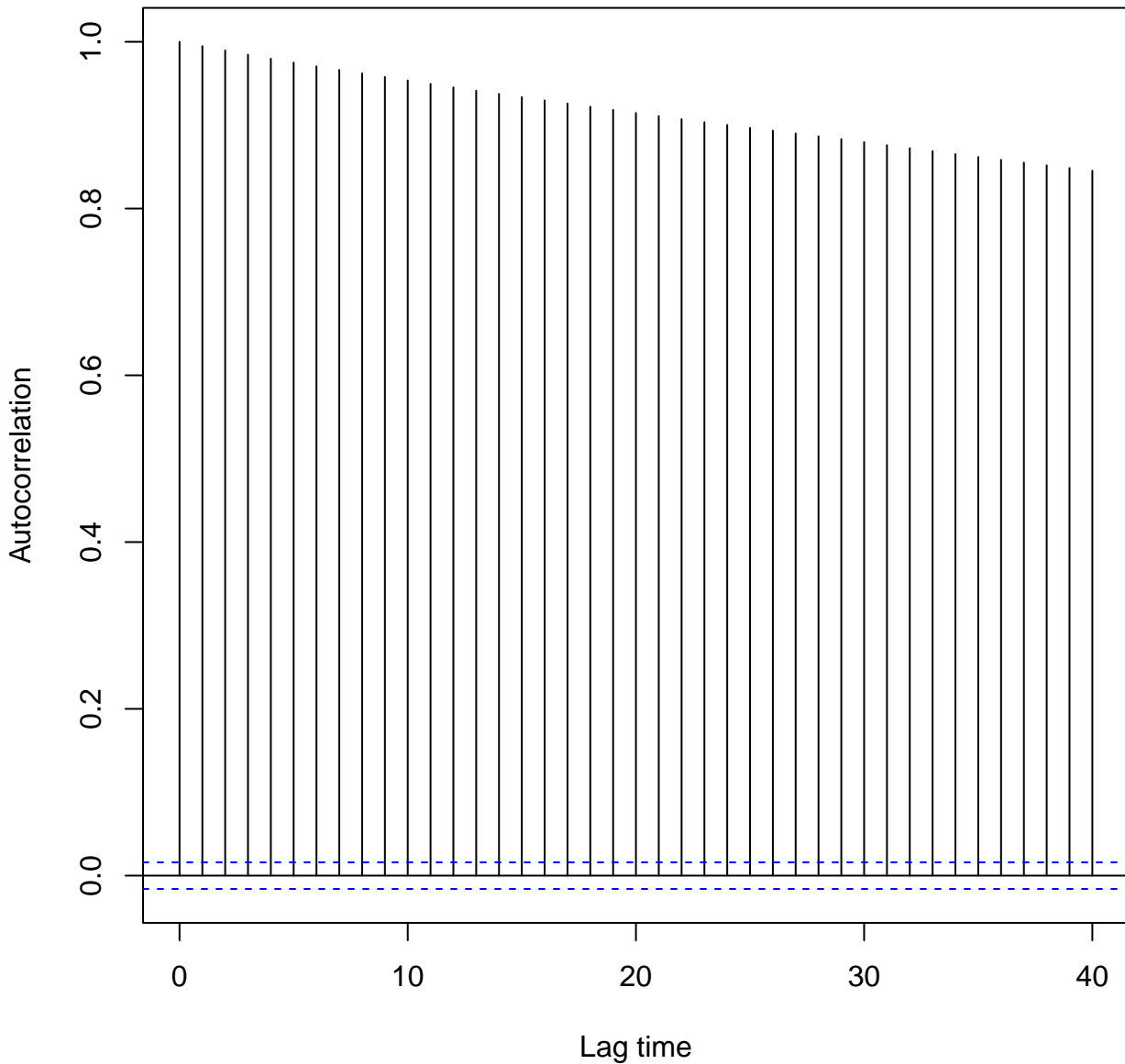
Selection S TCG Mixture: 1



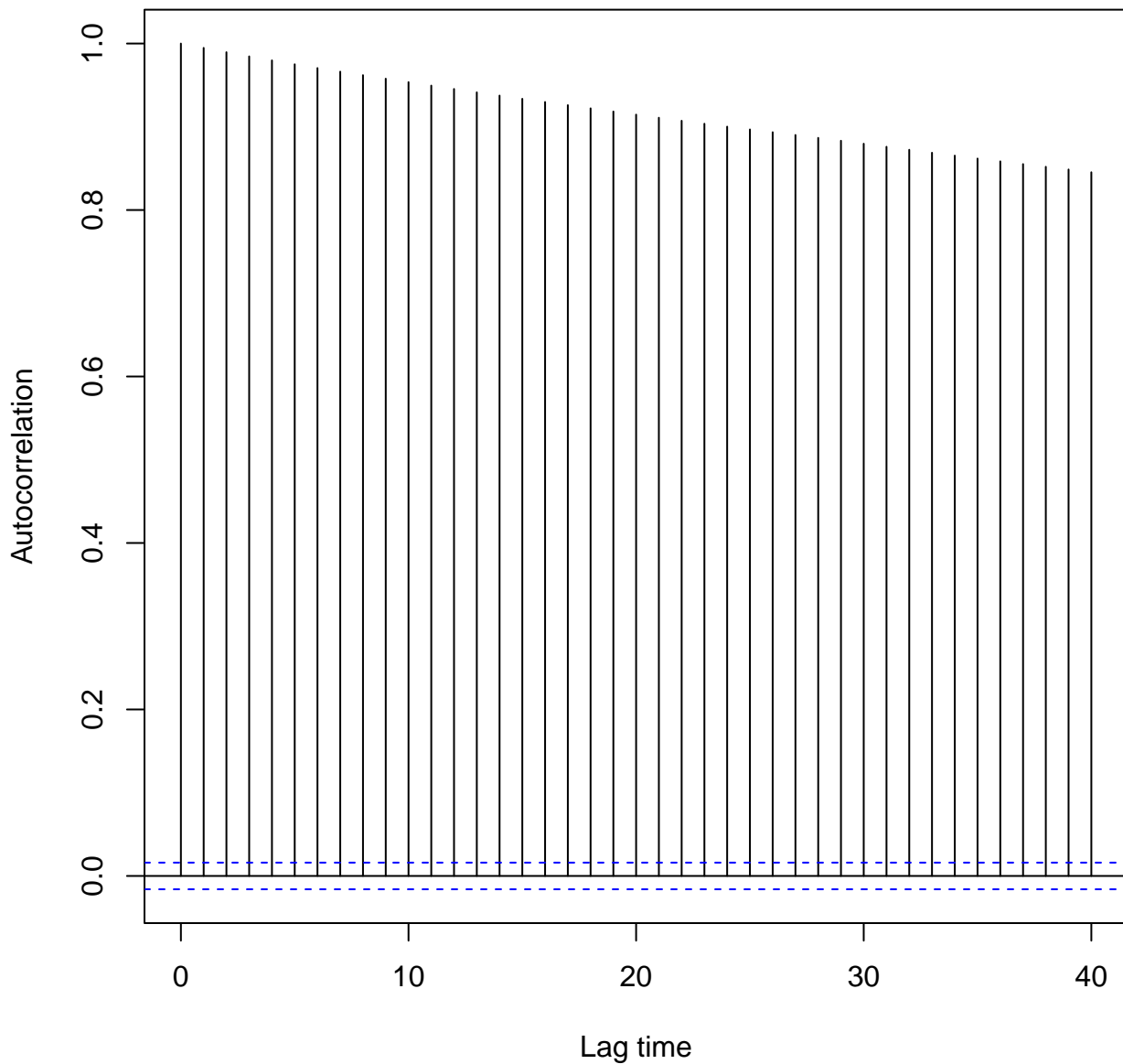
Selection S TCG Mixture: 2



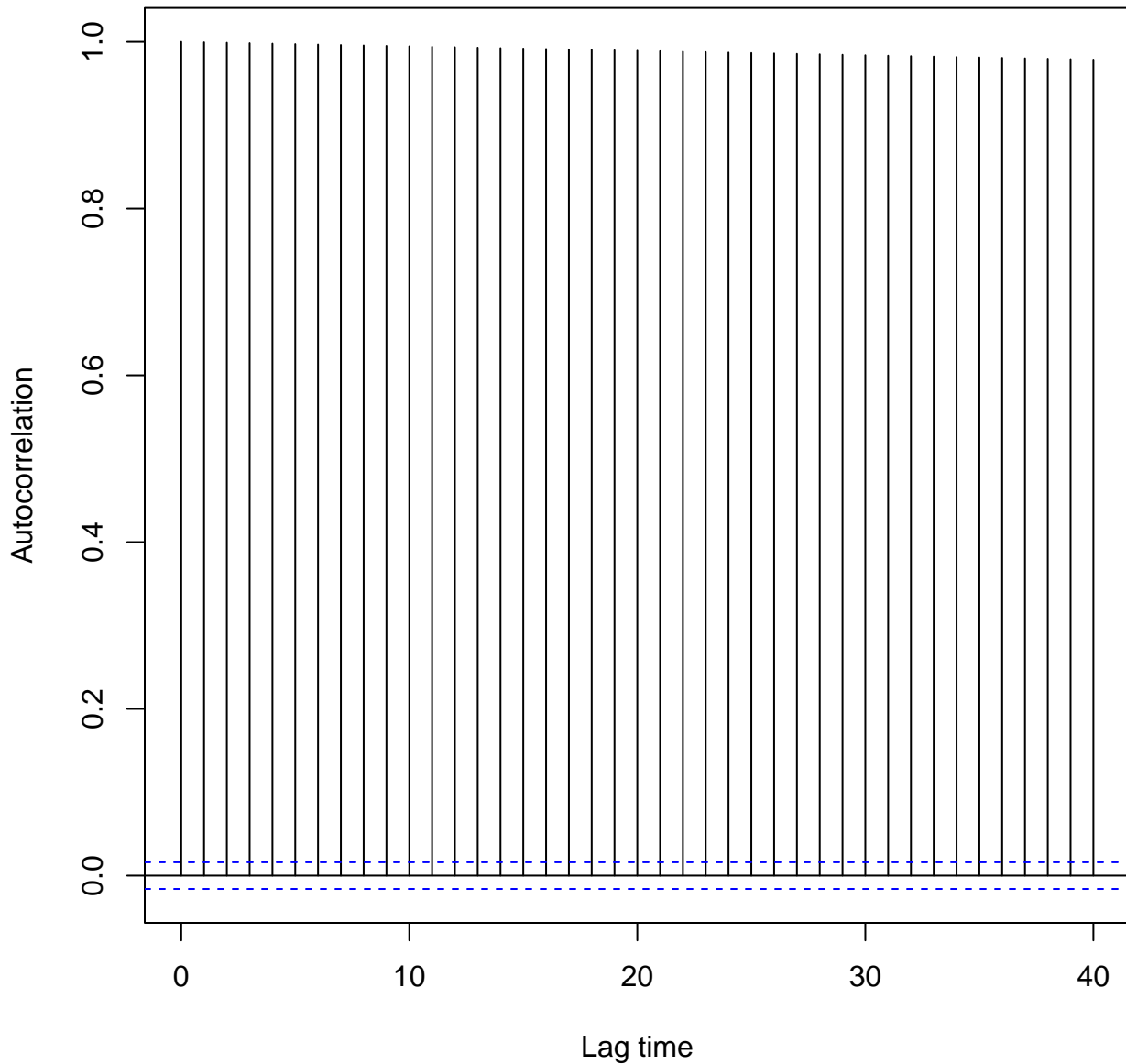
# Selection T ACA Mixture: 1



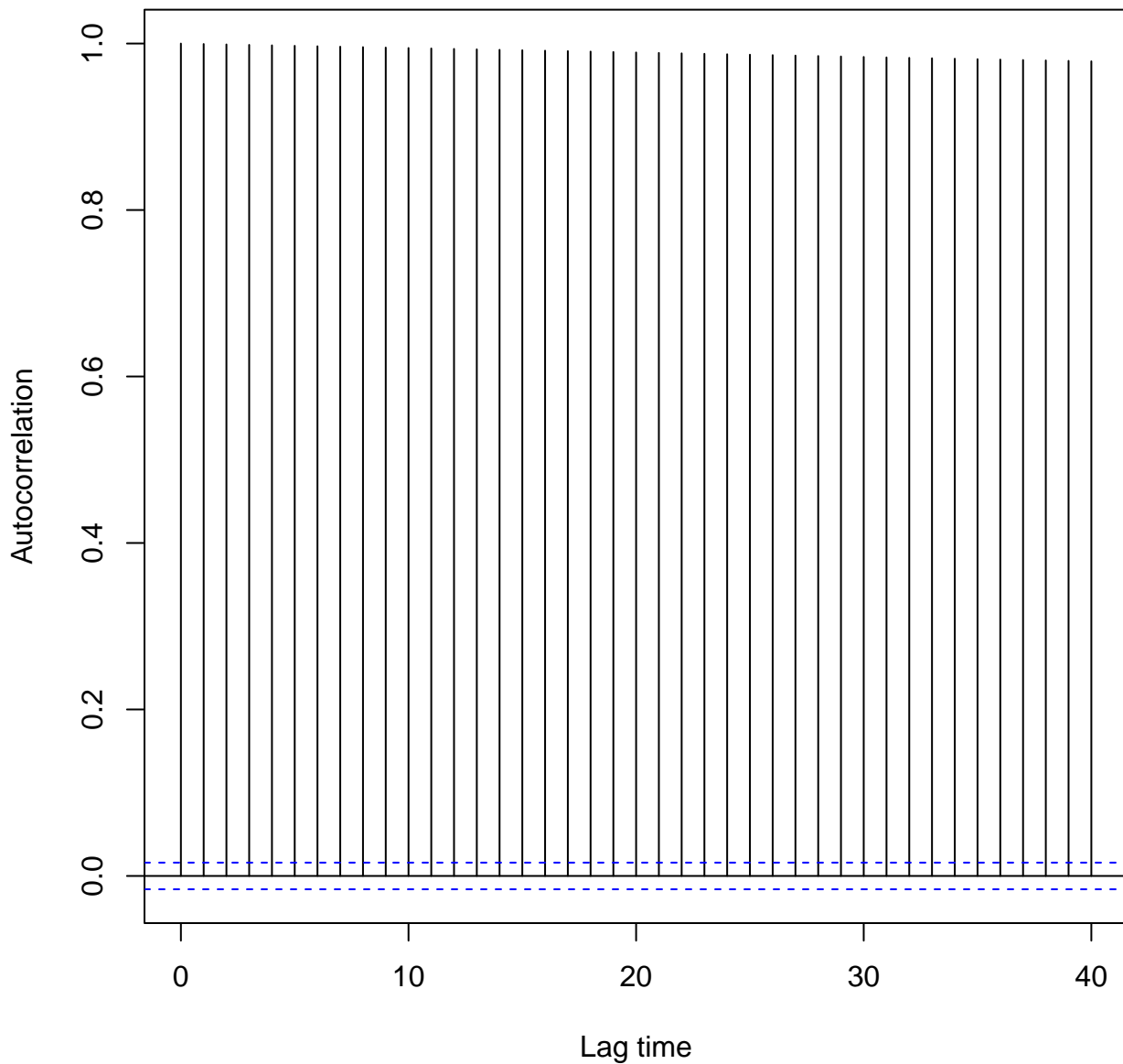
## Selection T ACA Mixture: 2



# Selection T ACC Mixture: 1

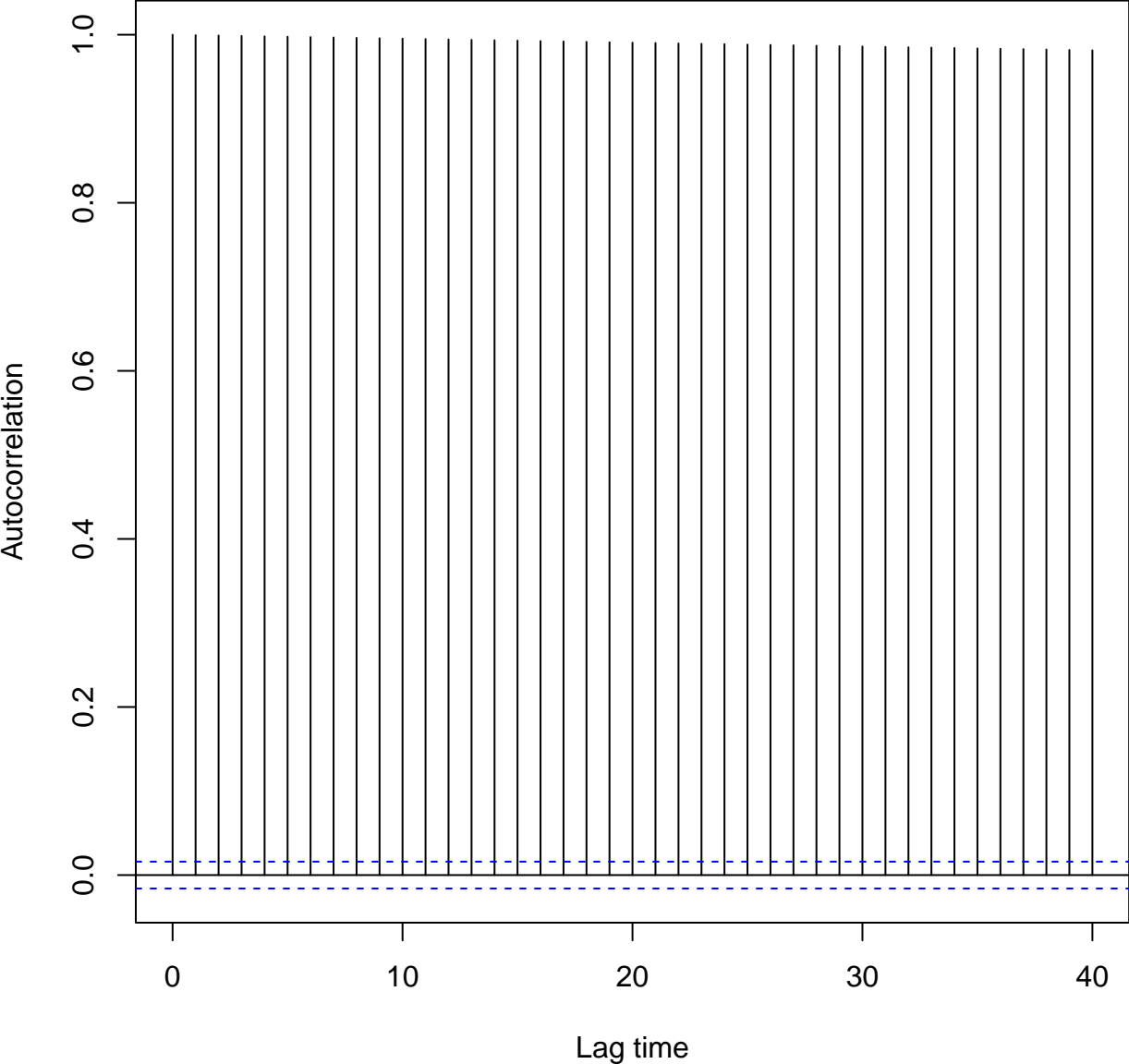


## Selection T ACC Mixture: 2

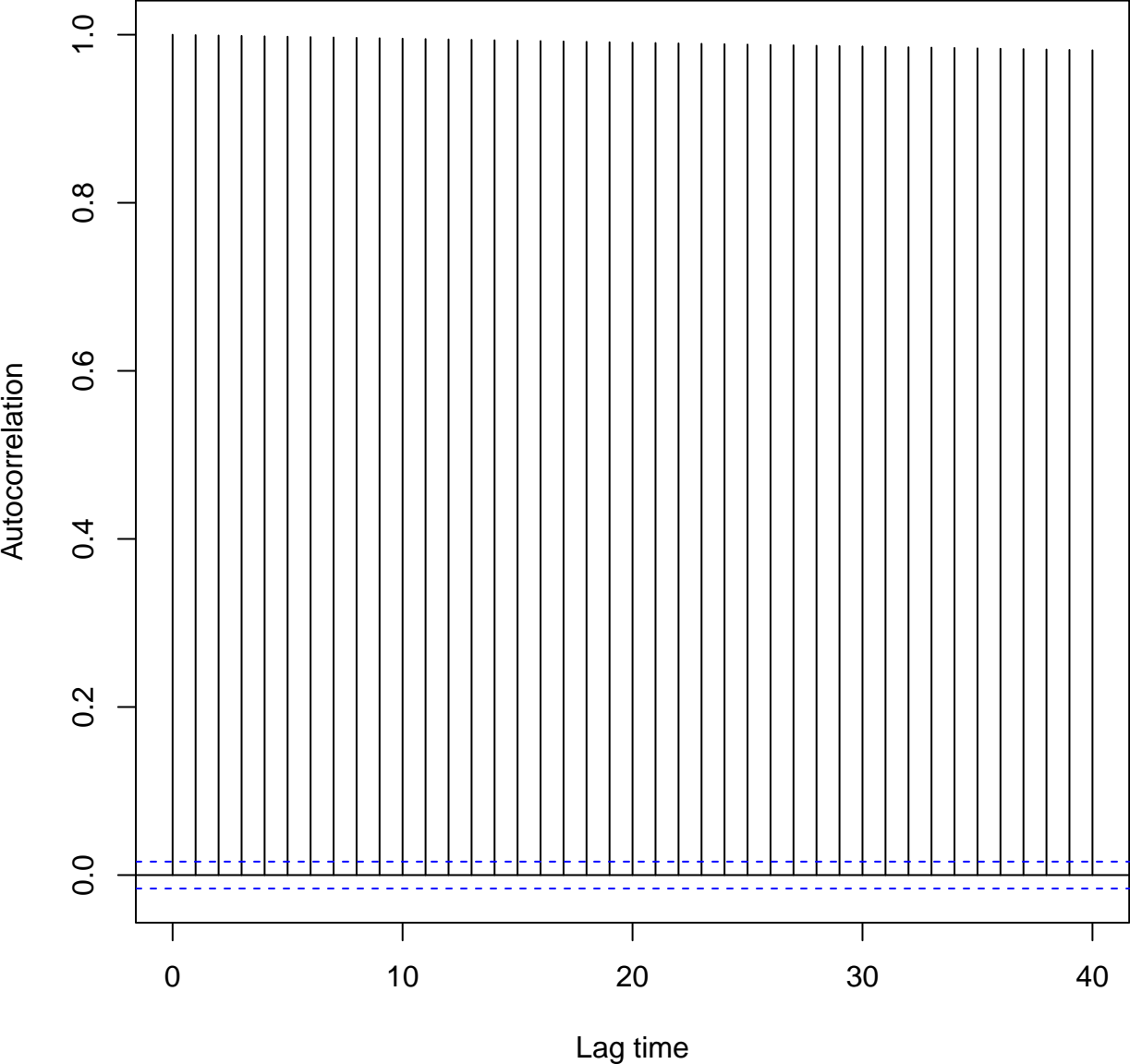




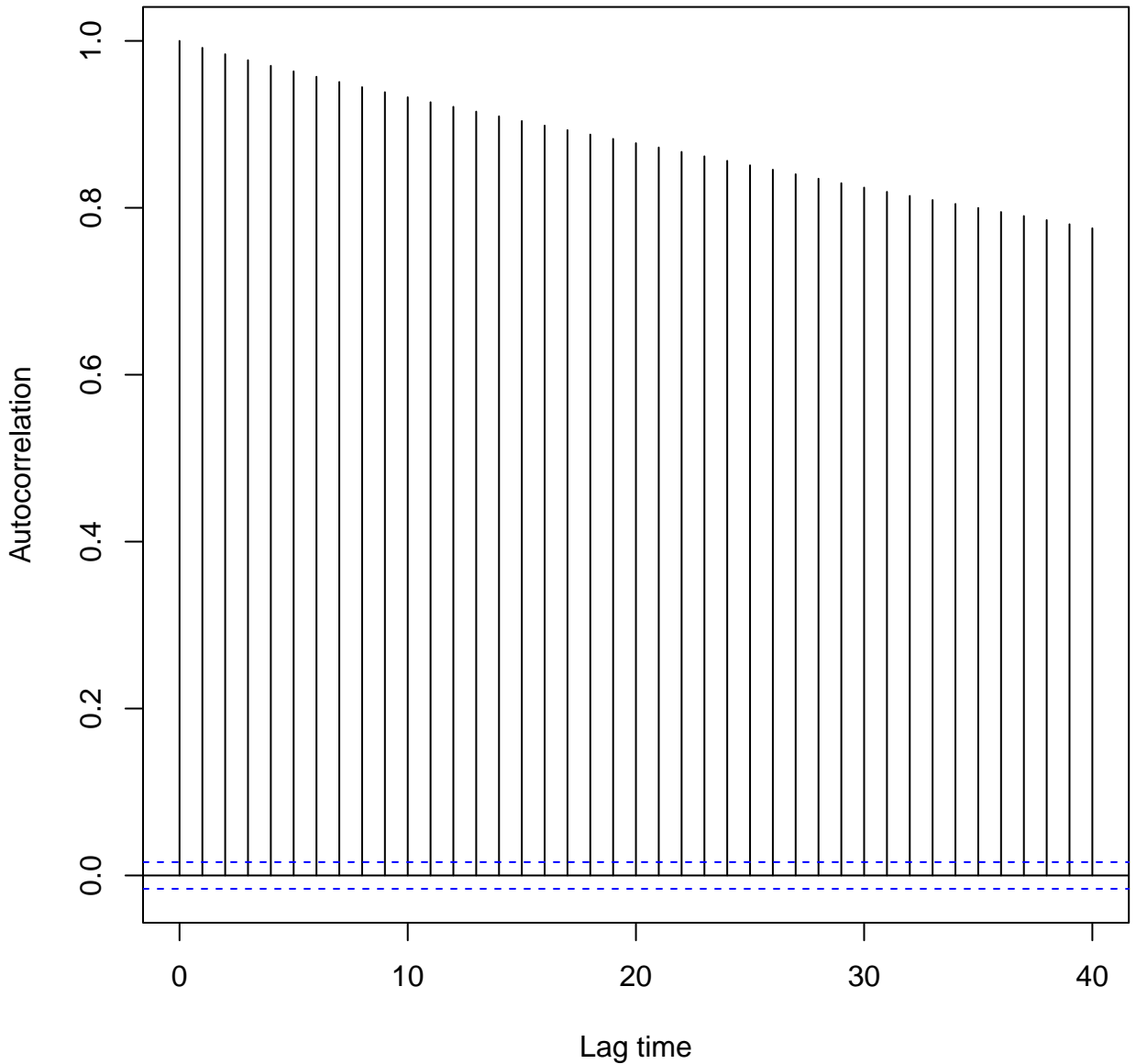
Selection T ACG Mixture: 1



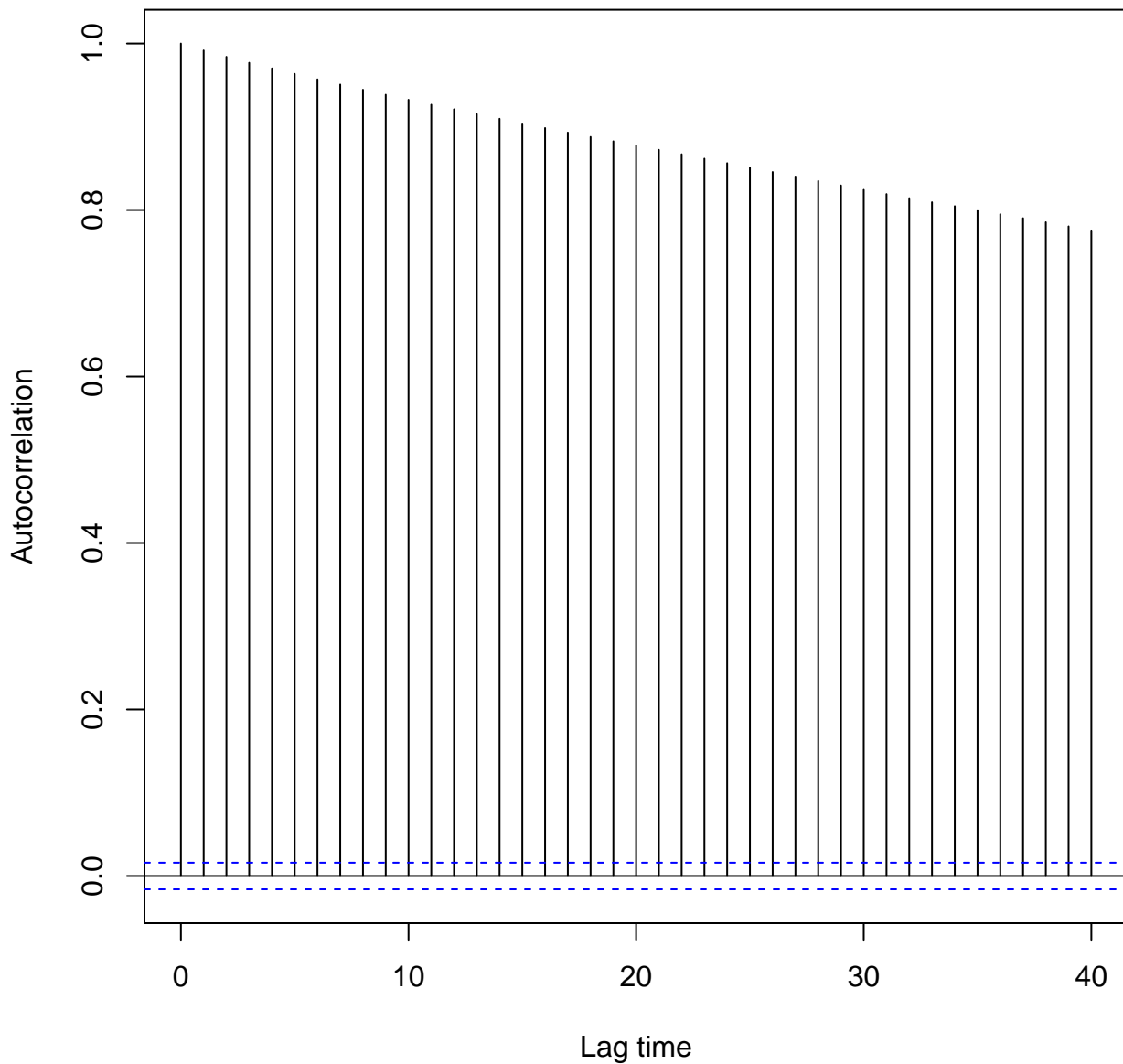
Selection T ACG Mixture: 2



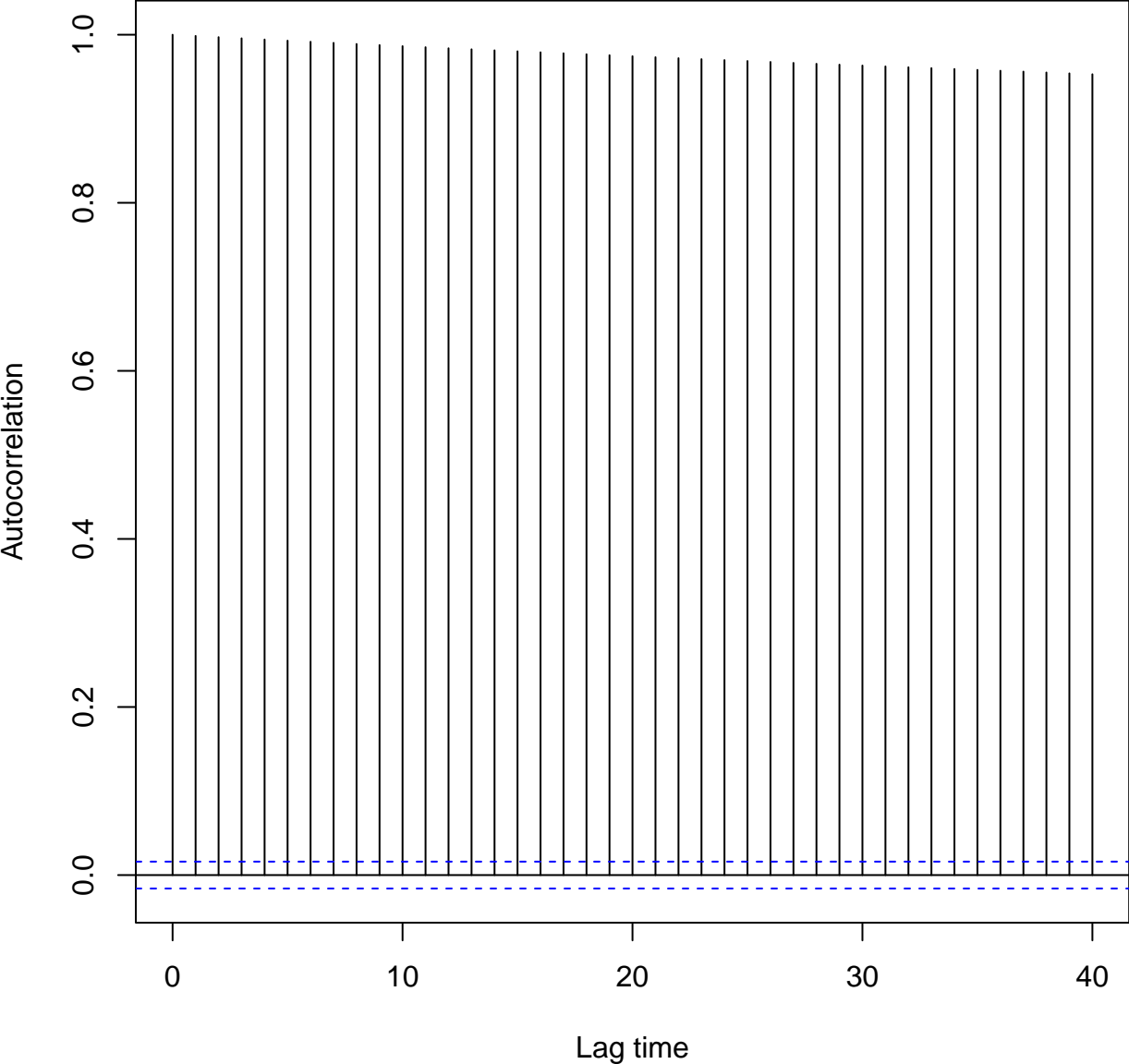
# Selection V GTA Mixture: 1



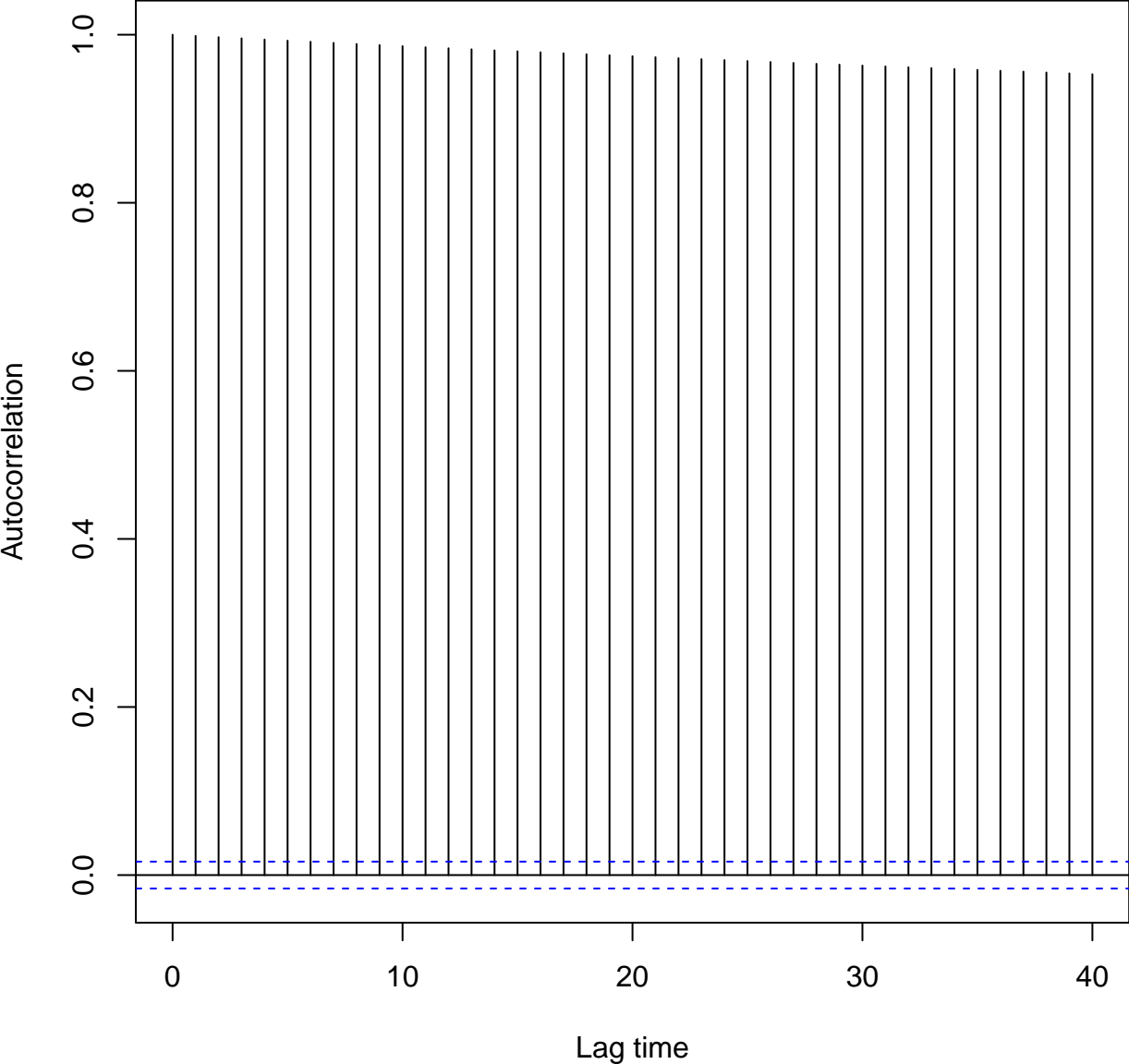
## Selection V GTA Mixture: 2



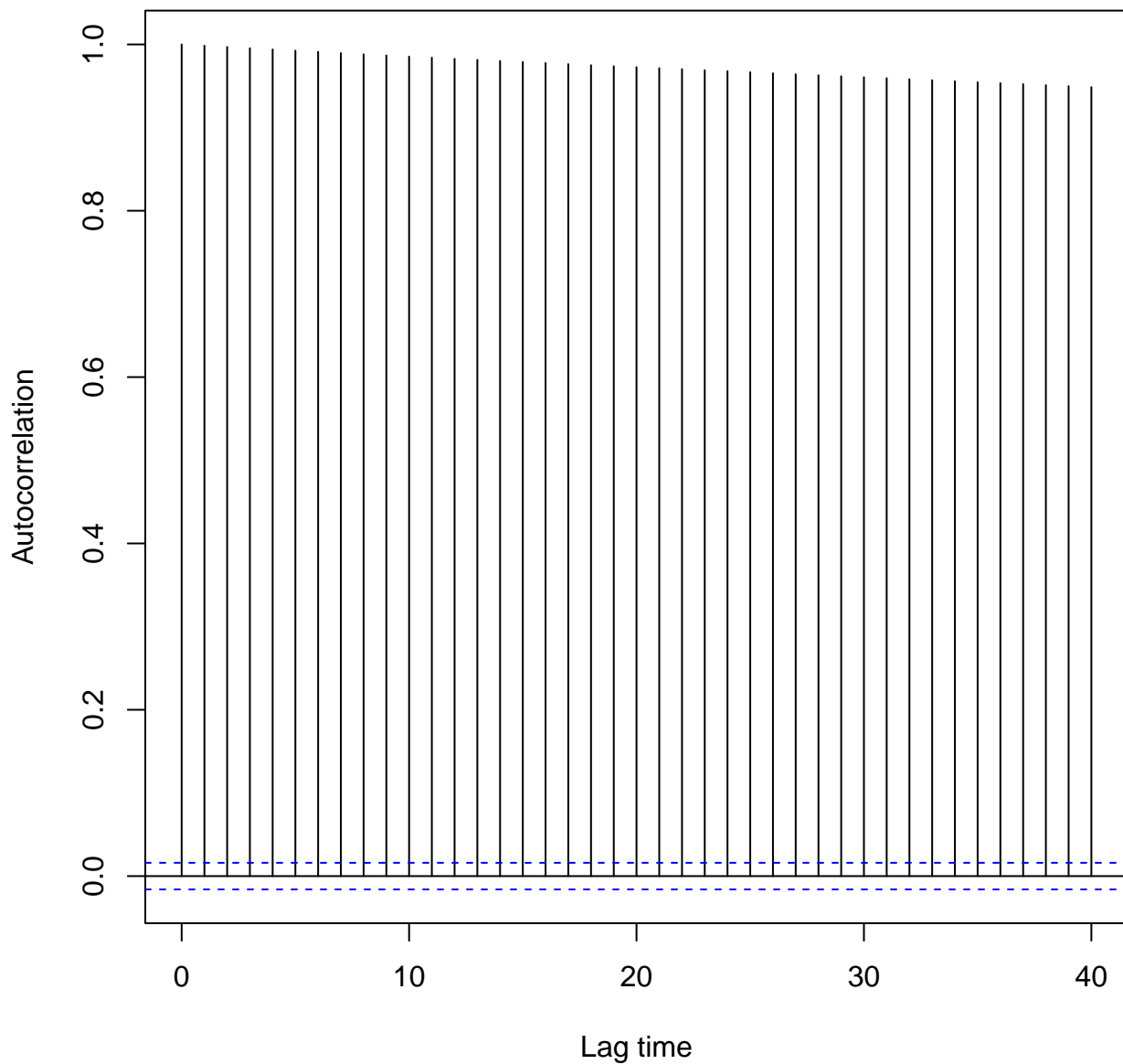
**Selection V GTC Mixture: 1**



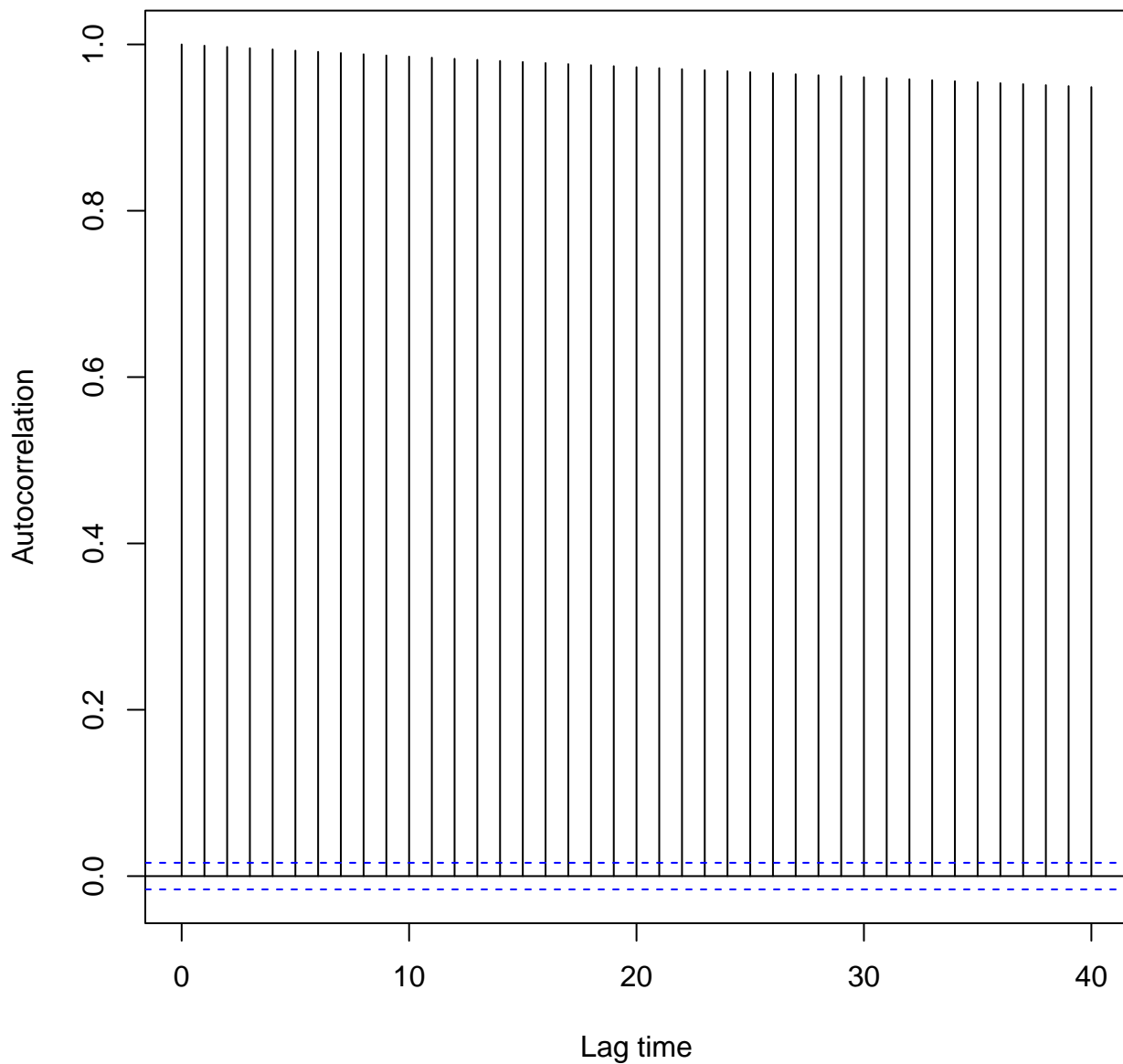
Selection V GTC Mixture: 2



# Selection V GTG Mixture: 1

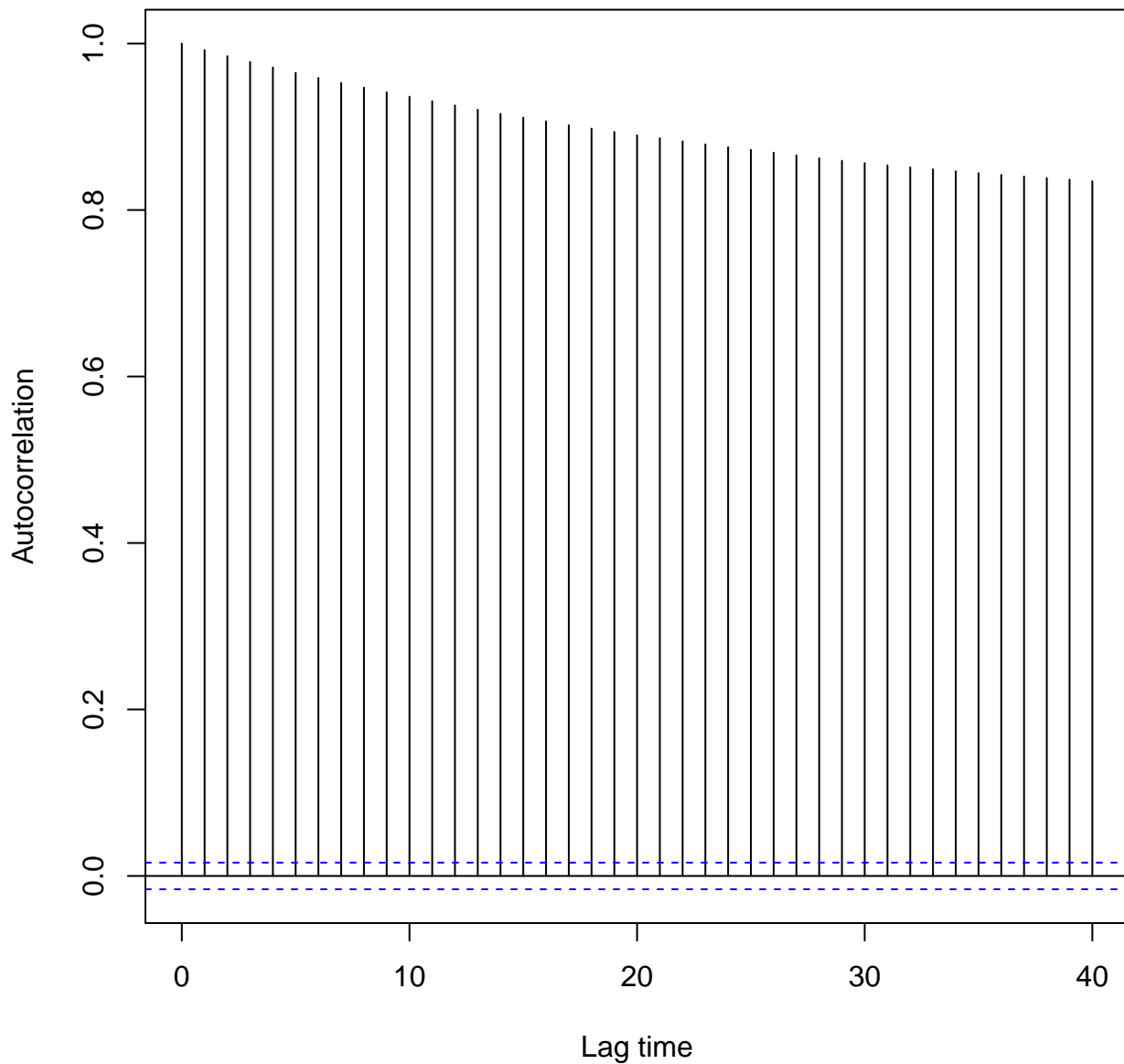


## Selection V GTG Mixture: 2

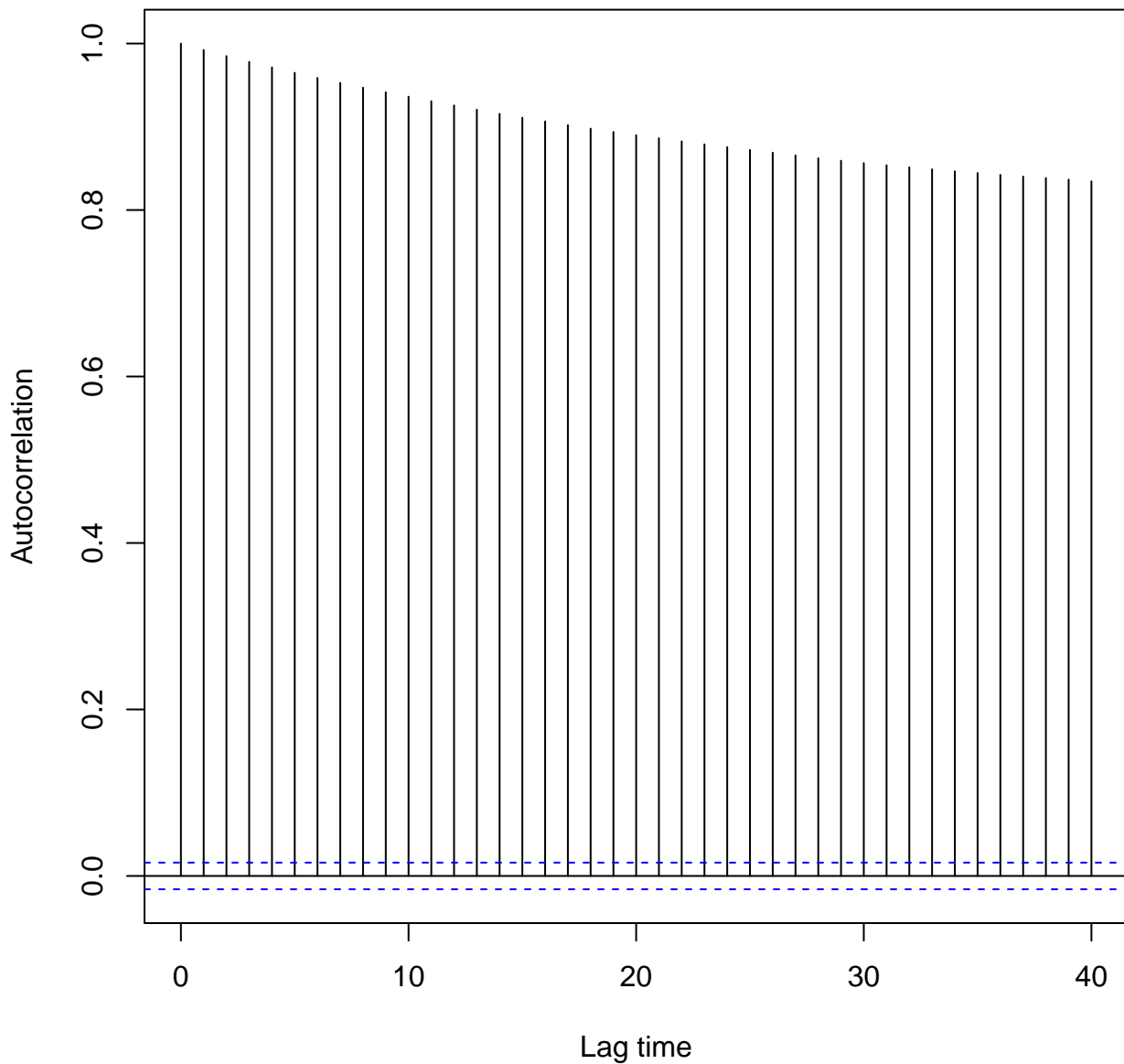




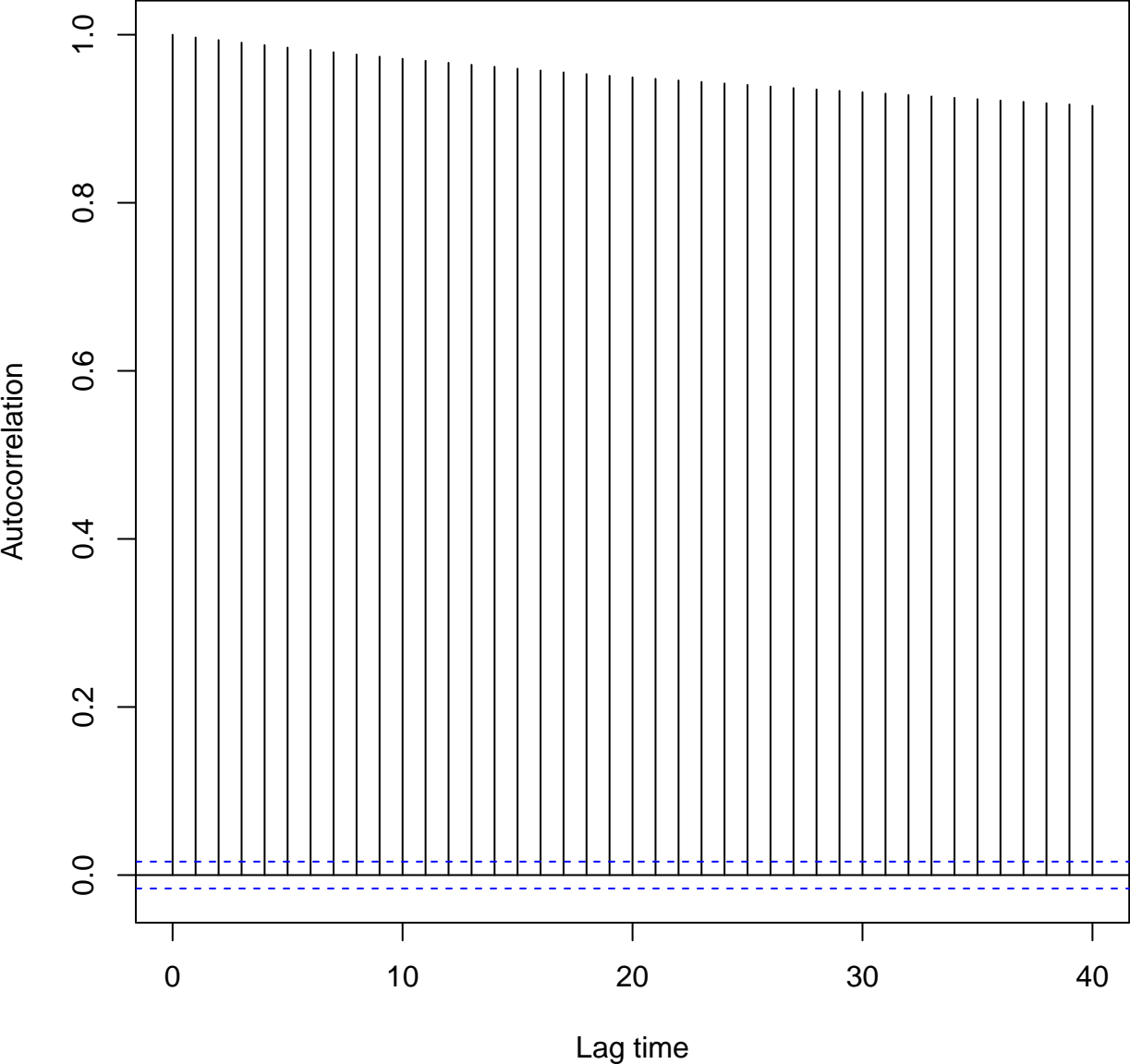
# Selection Y TAC Mixture: 1



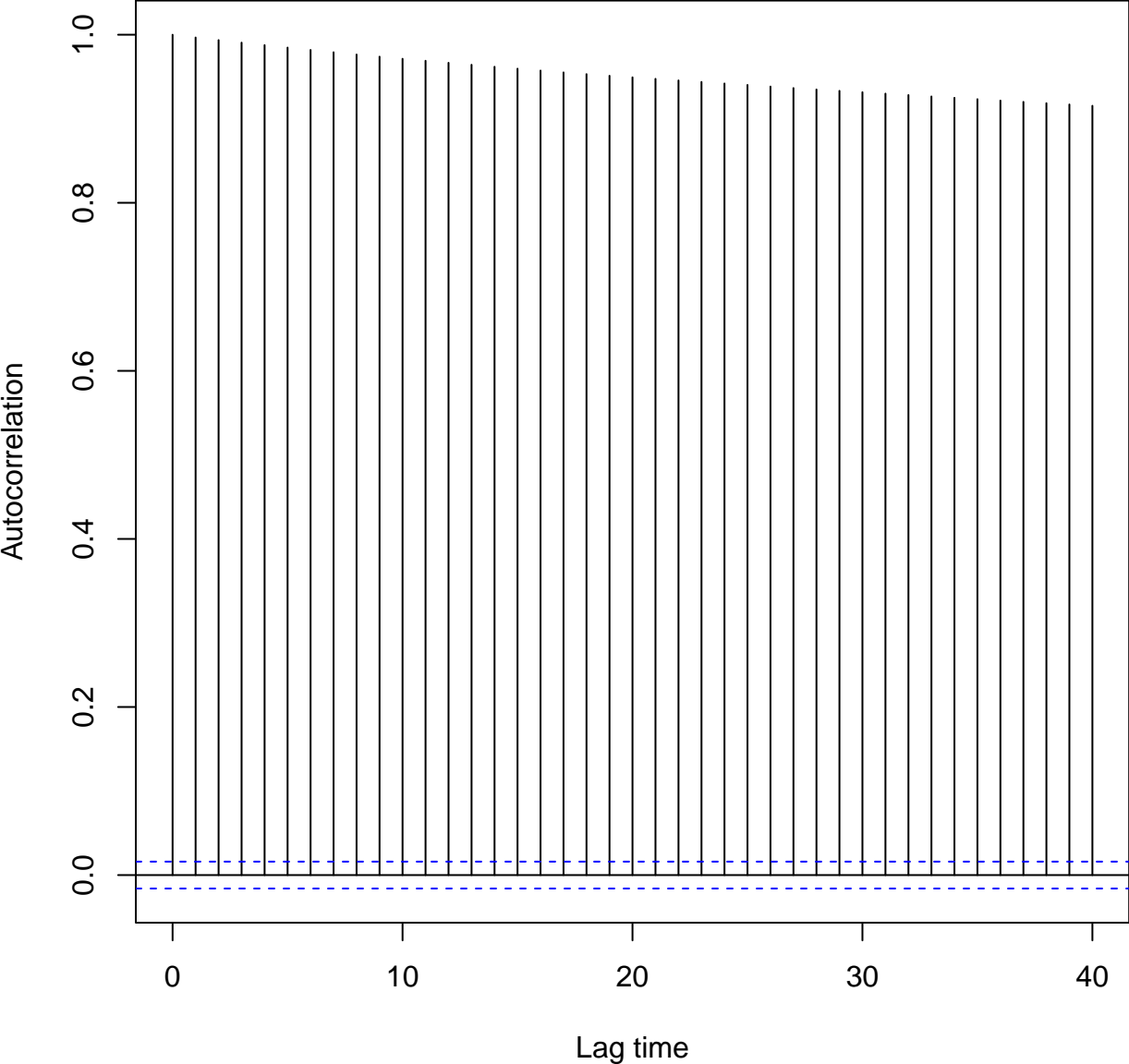
## Selection Y TAC Mixture: 2



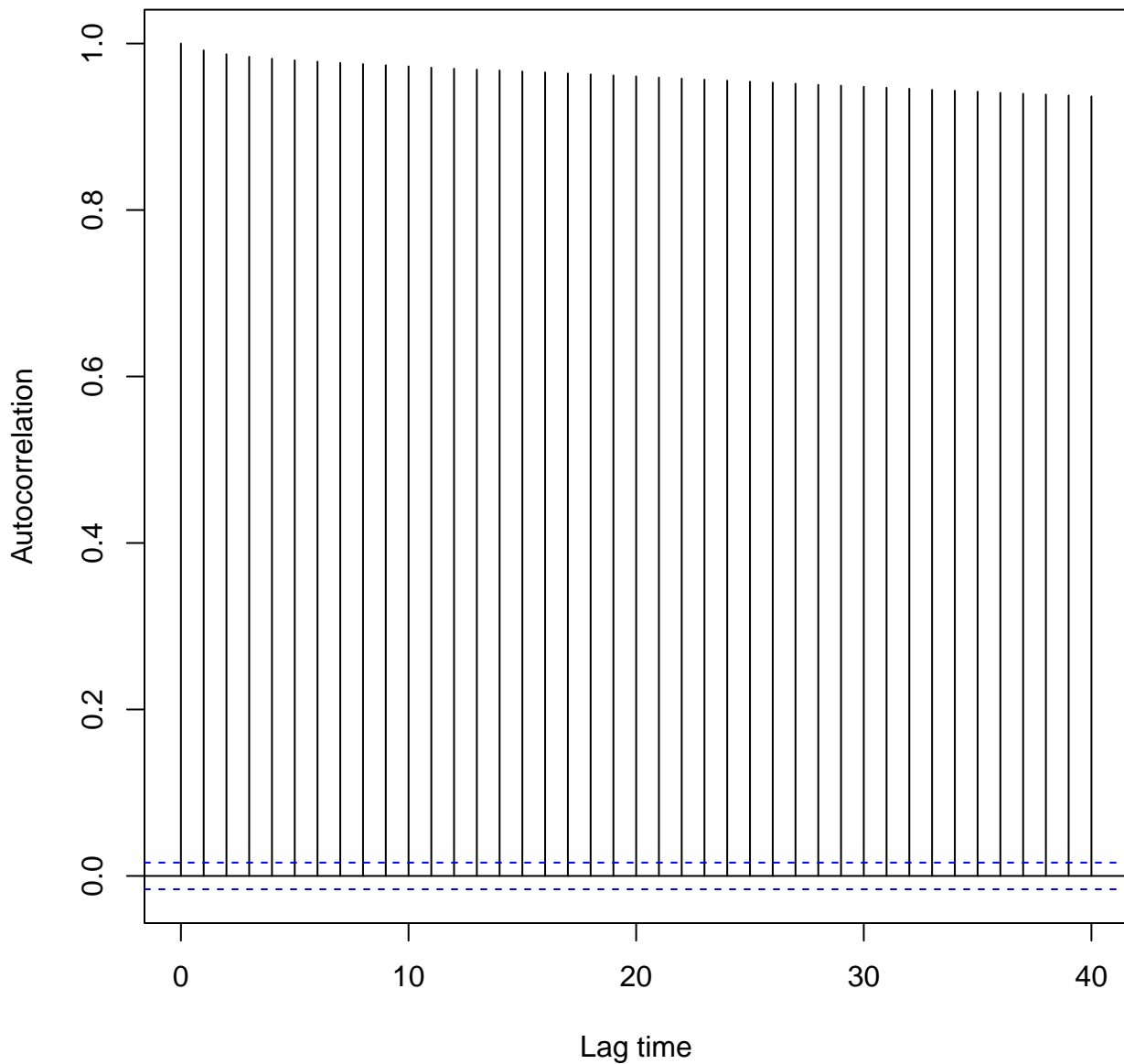
**Selection Z AGC Mixture: 1**



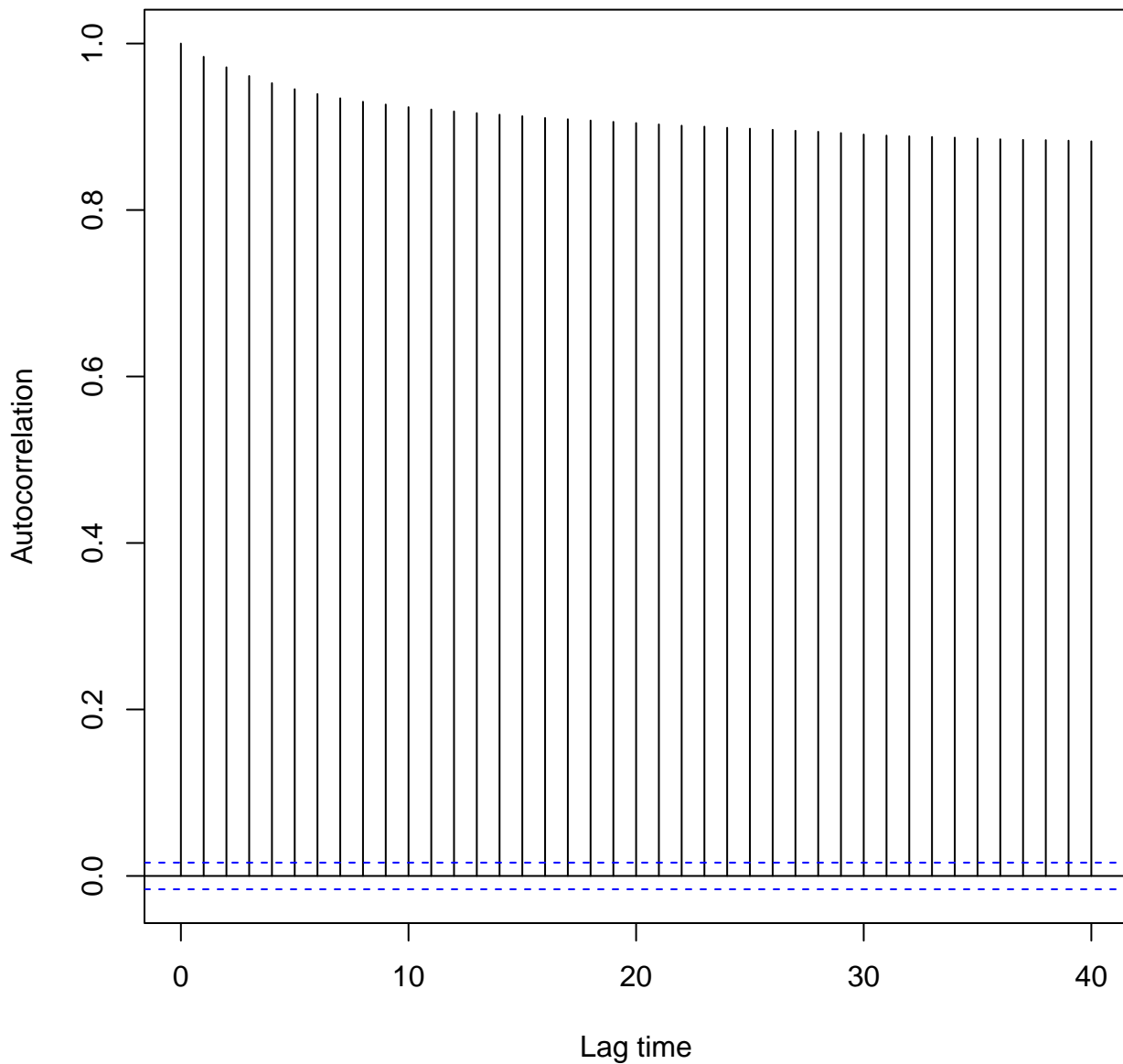
**Selection Z AGC Mixture: 2**



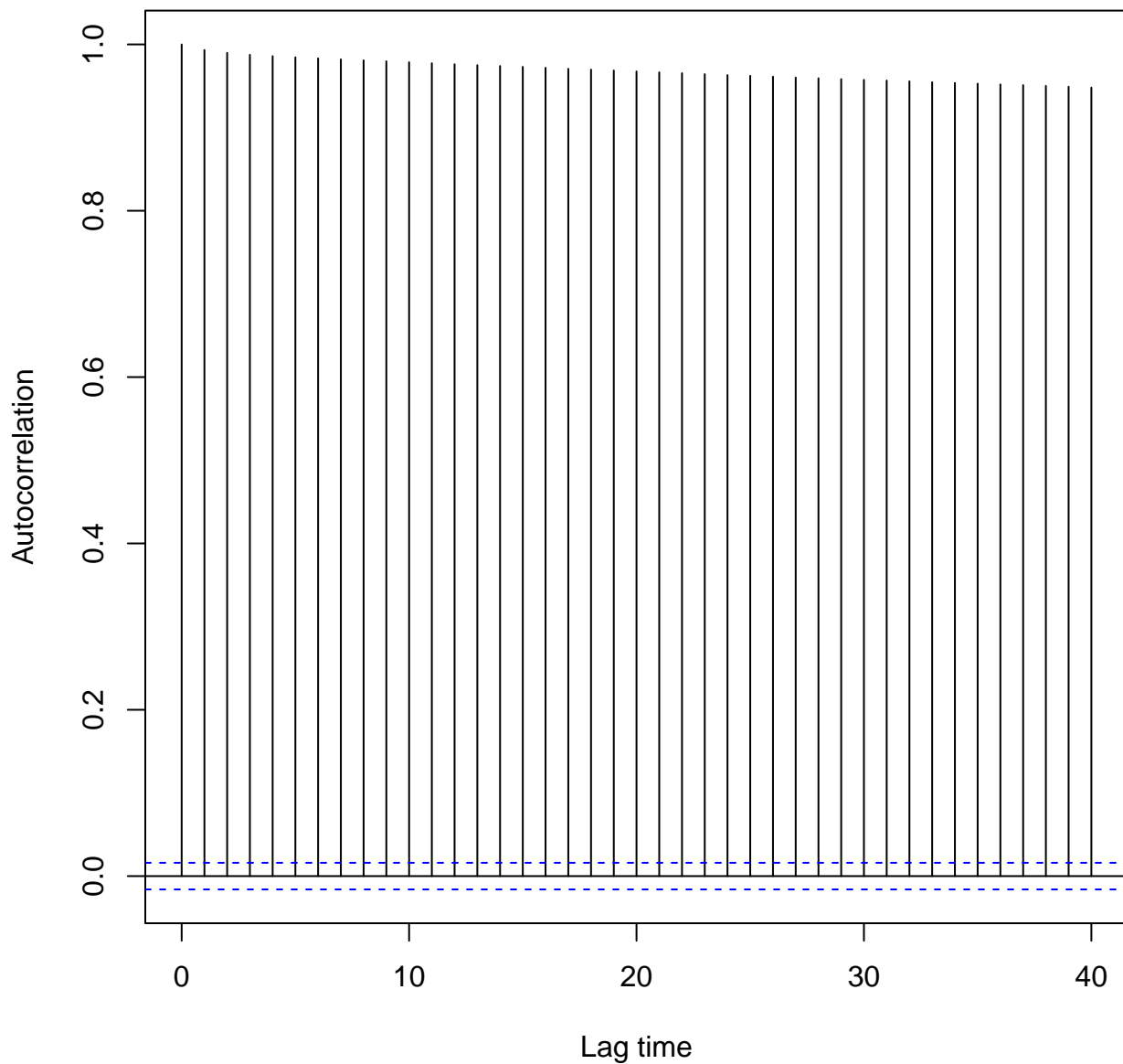
# Mutation A GCA Mixture: 1



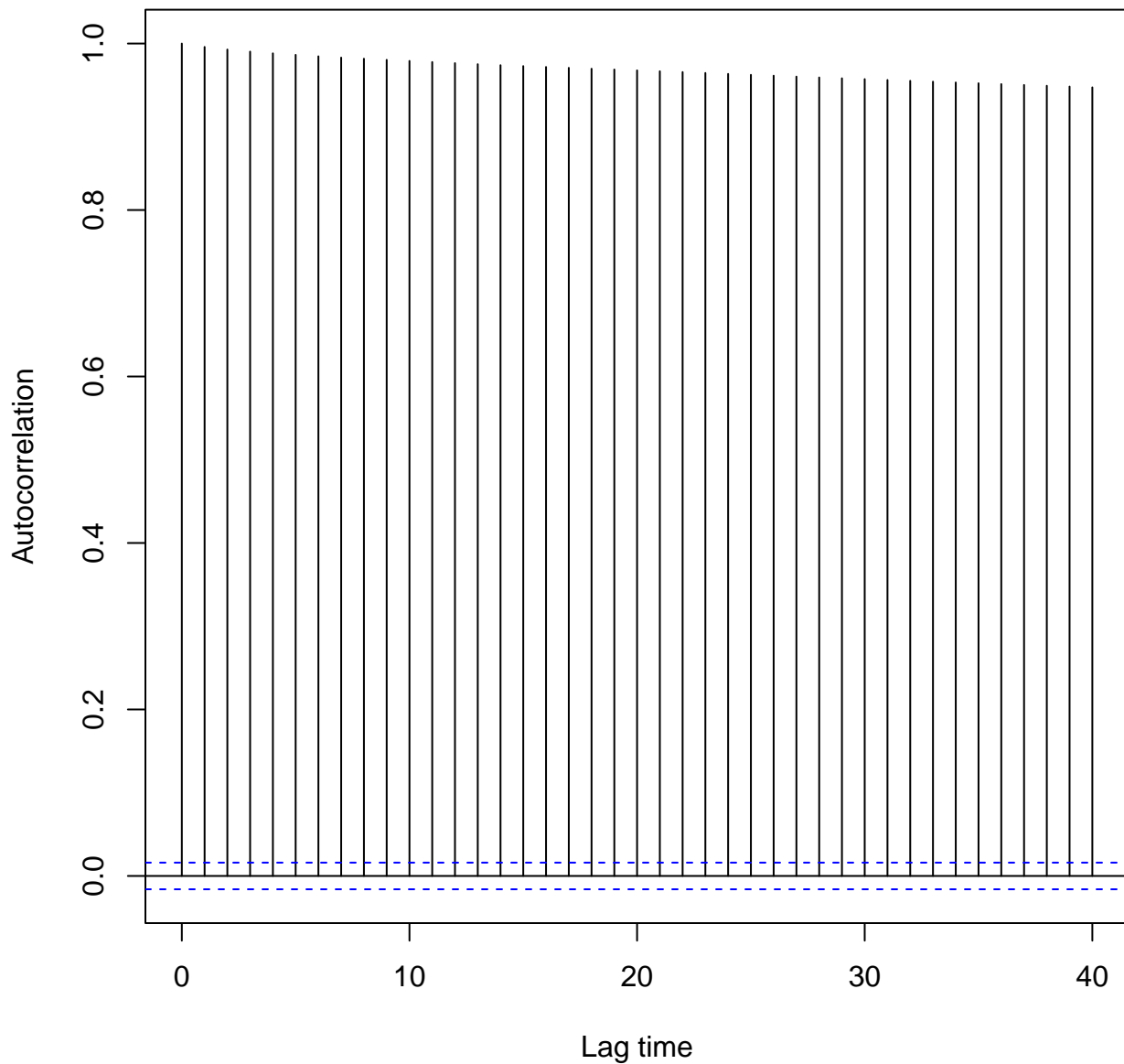
## Mutation A GCA Mixture: 2



# Mutation A GCC Mixture: 1

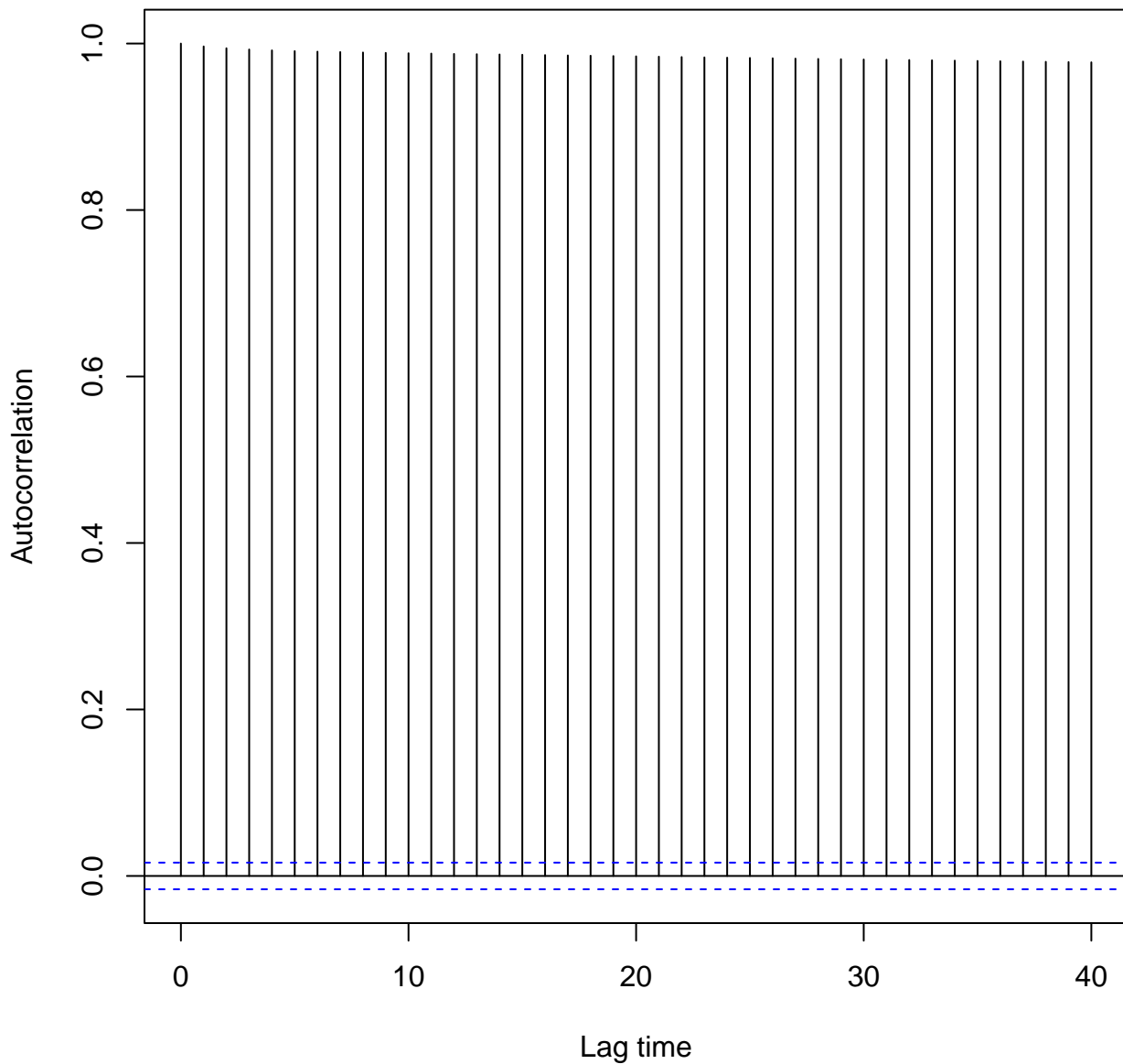


## Mutation A GCC Mixture: 2

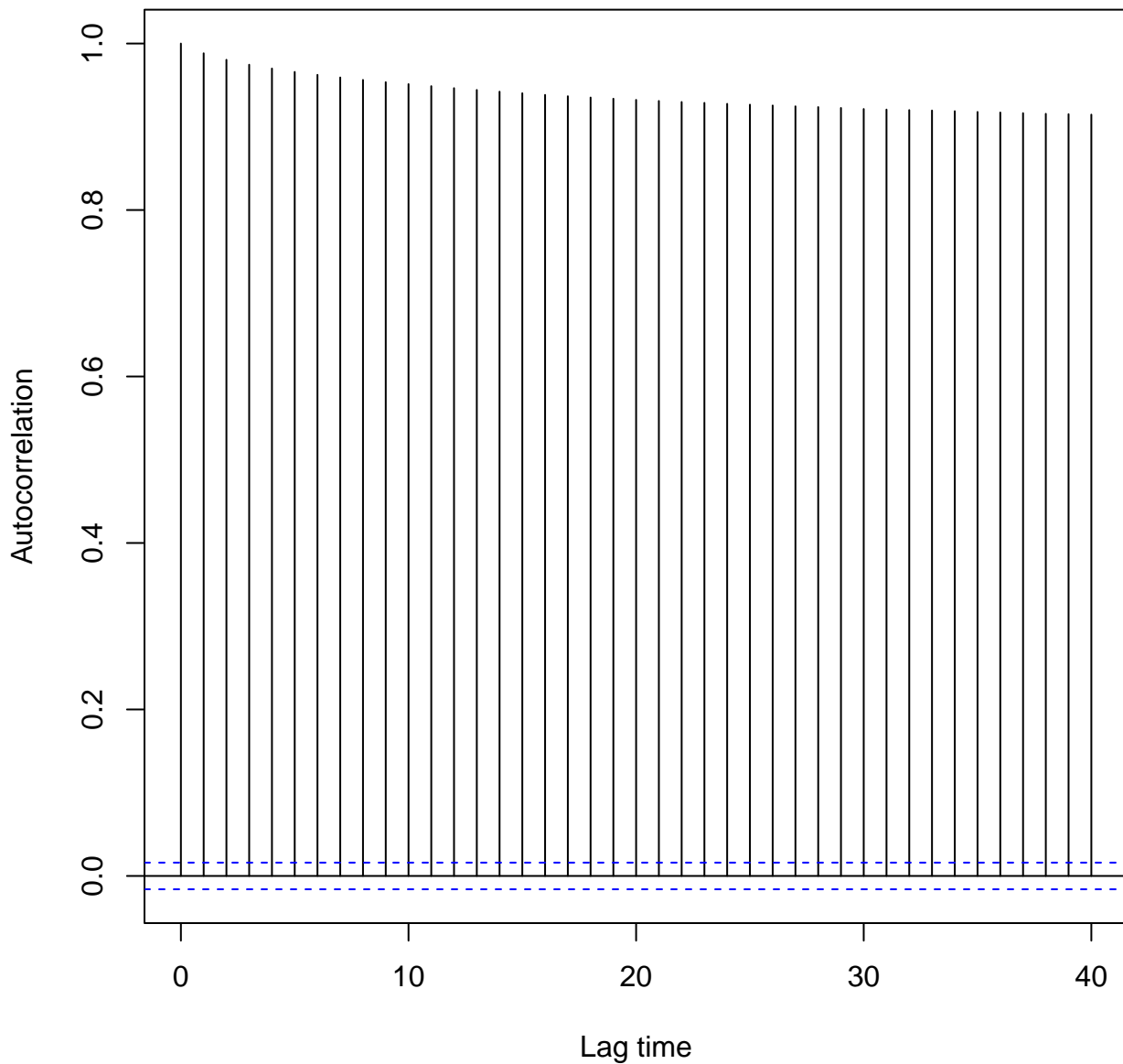




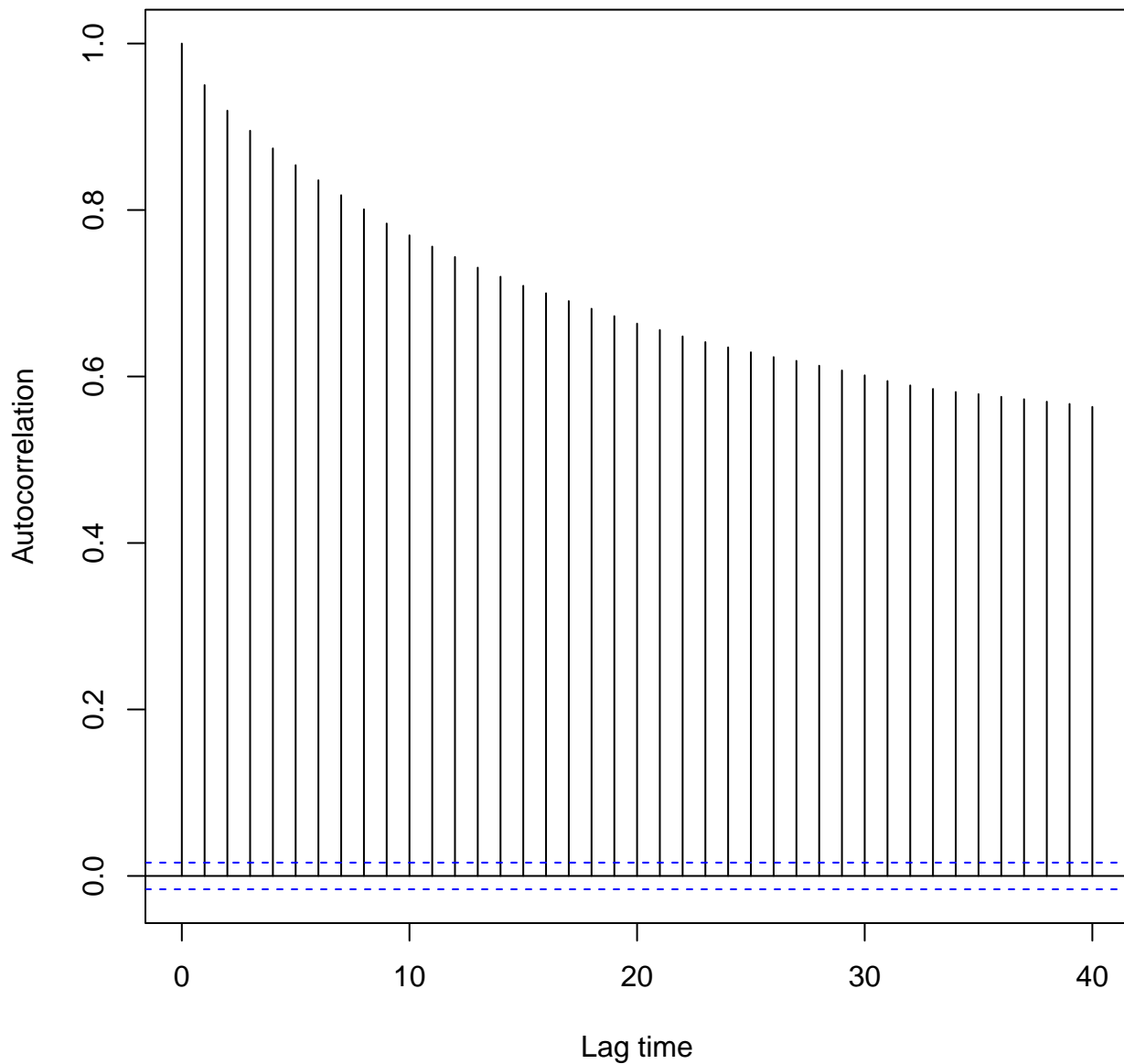
# Mutation A GCG Mixture: 1



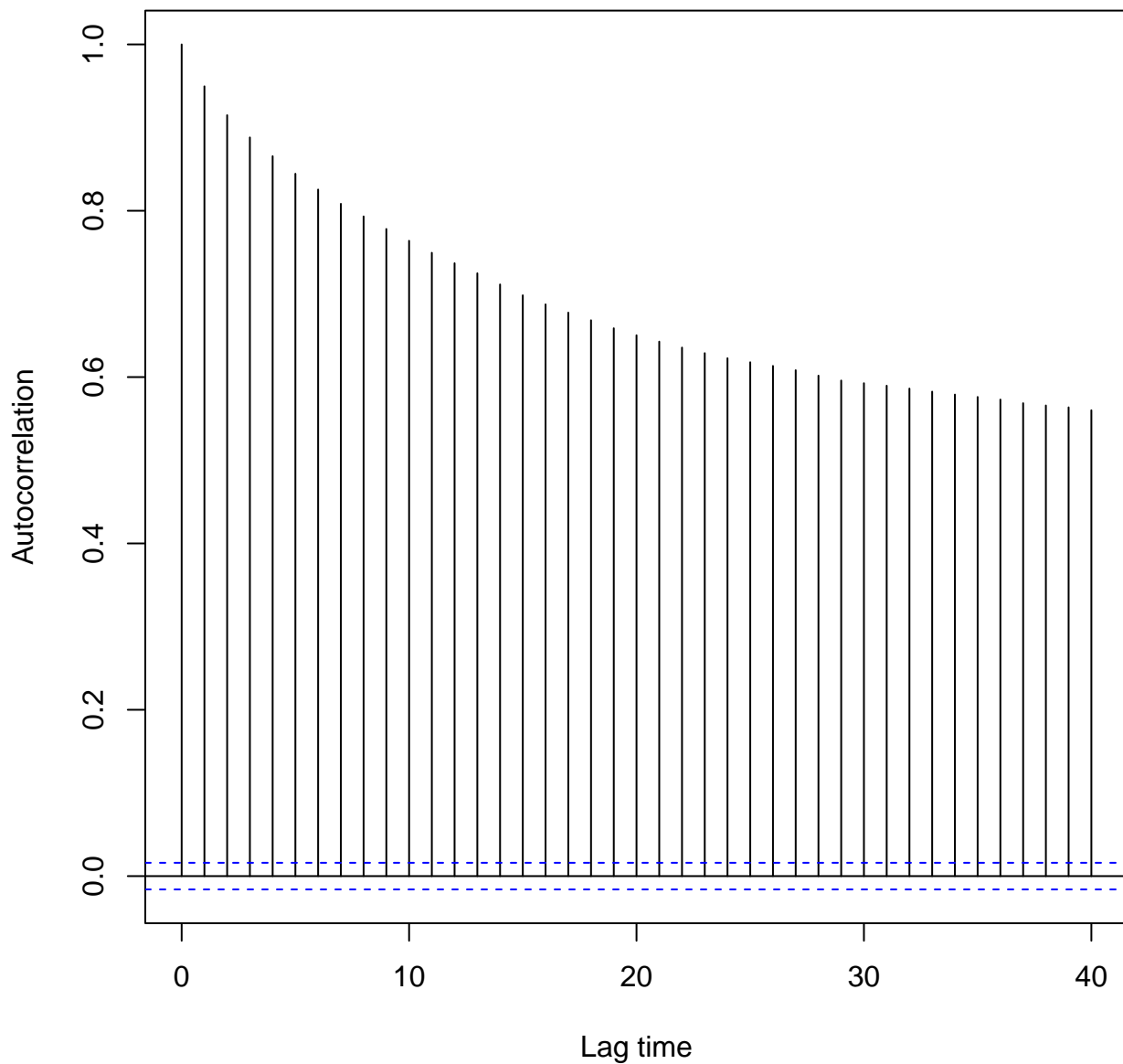
## Mutation A GCG Mixture: 2



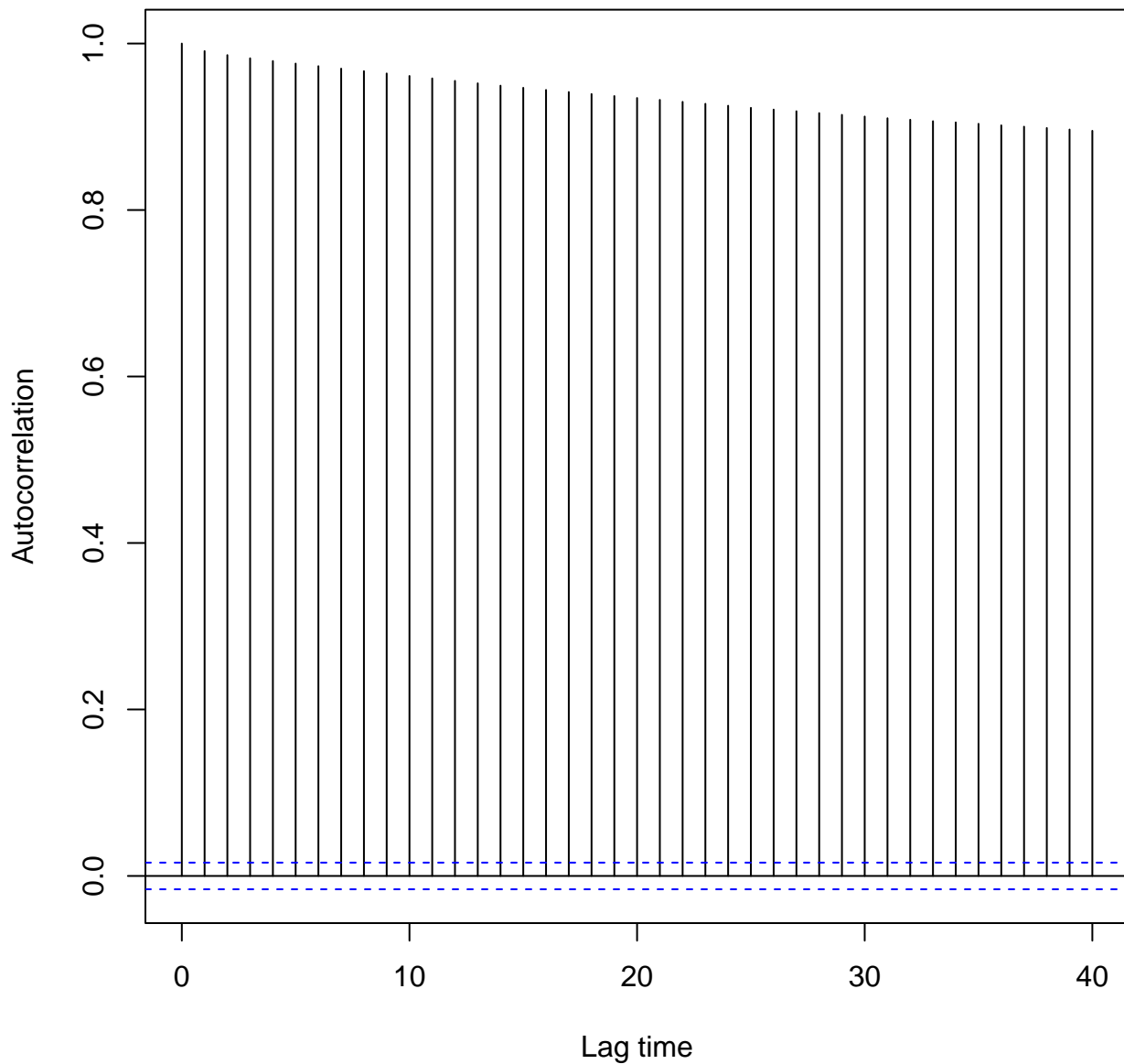
# Mutation C TGC Mixture: 1



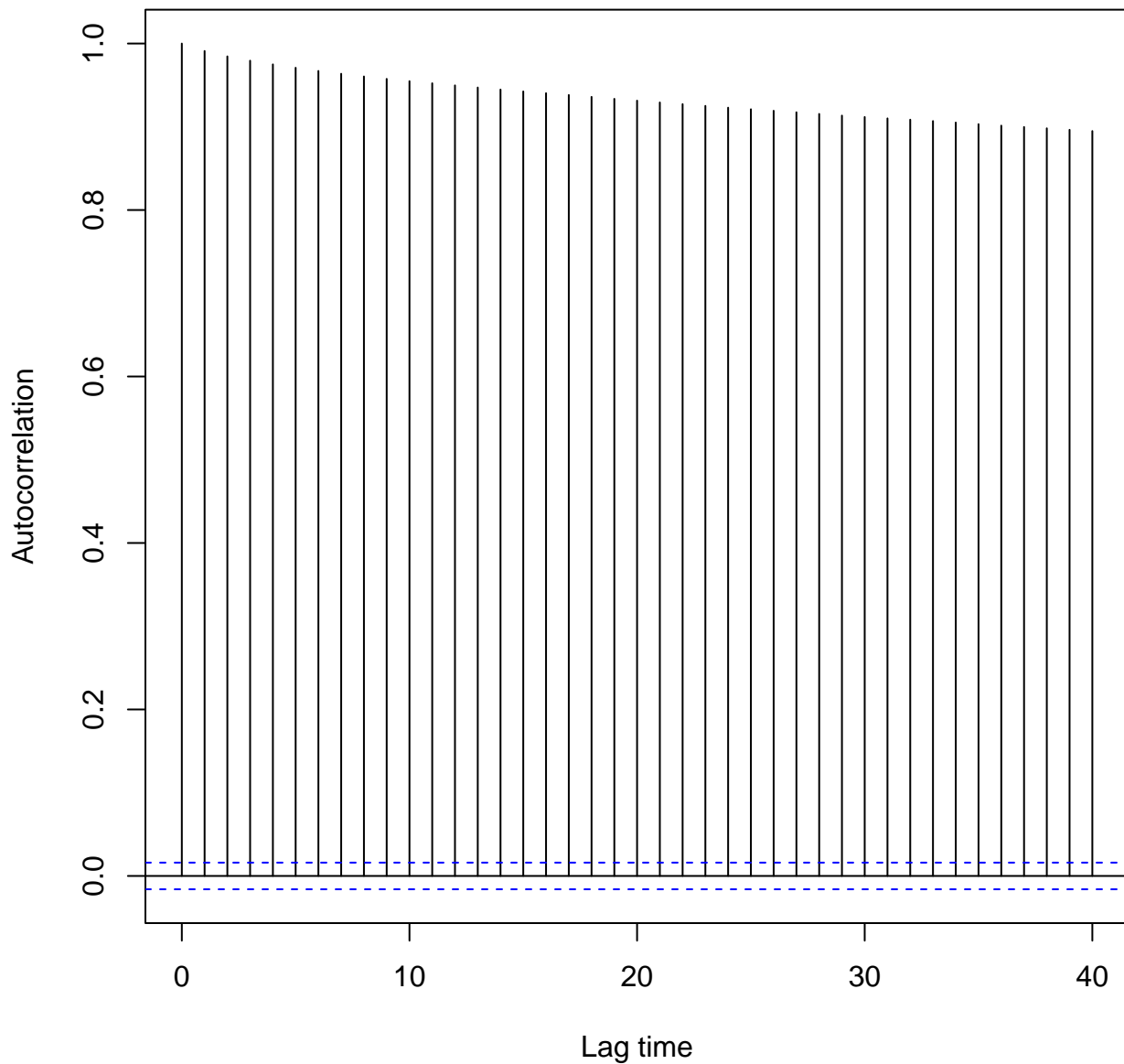
## Mutation C TGC Mixture: 2



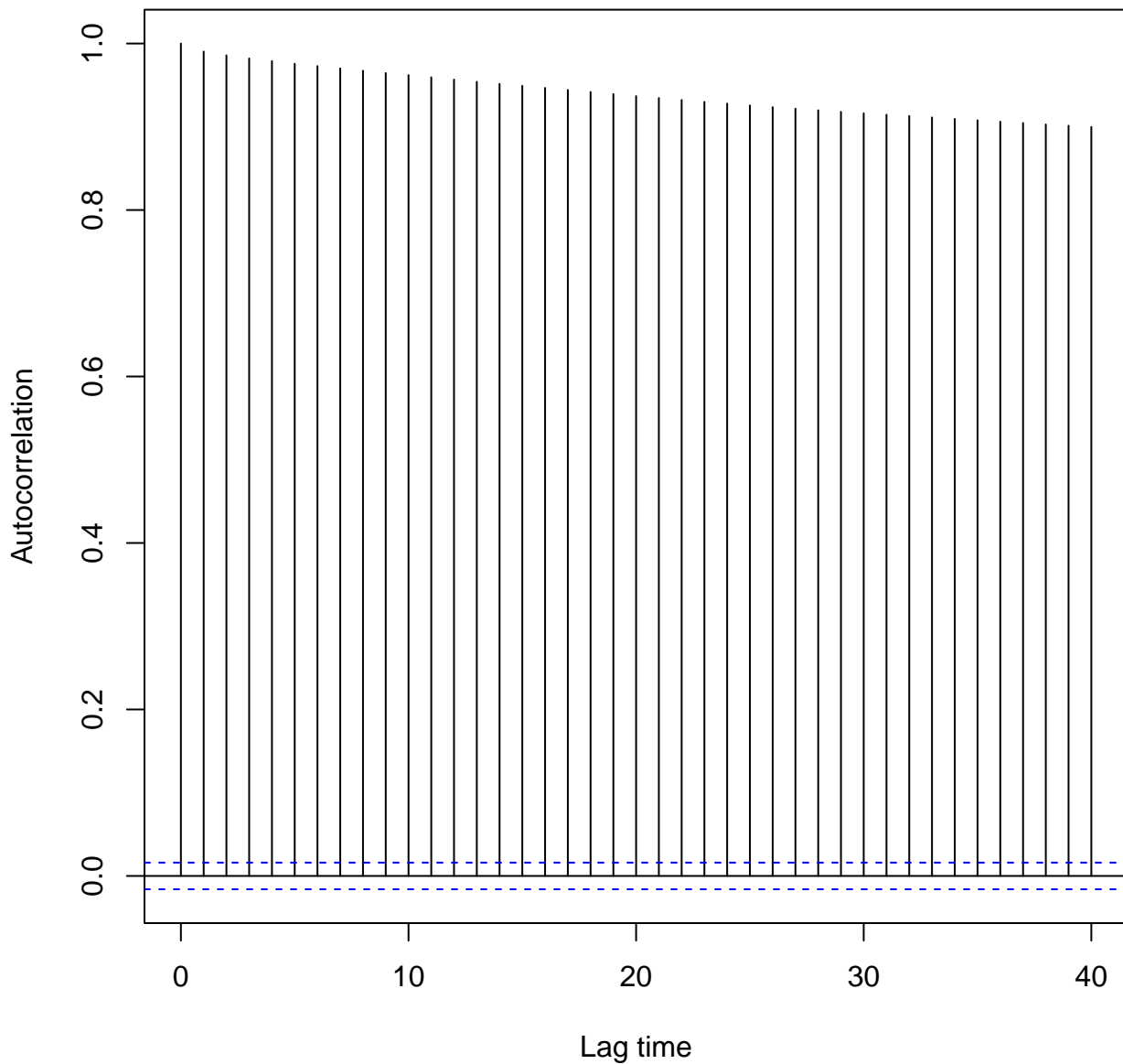
# Mutation D GAC Mixture: 1



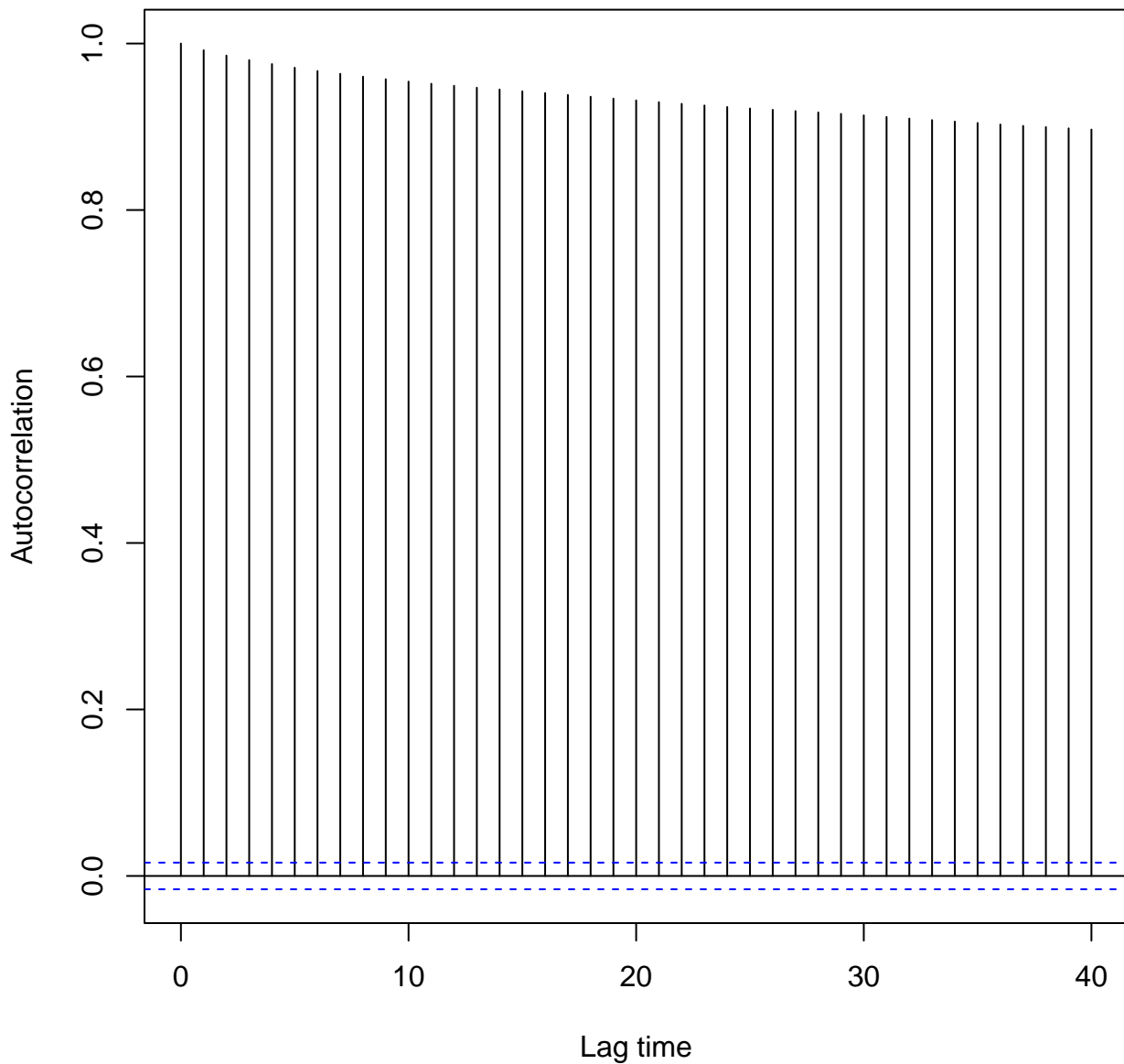
## Mutation D GAC Mixture: 2



# Mutation E GAA Mixture: 1

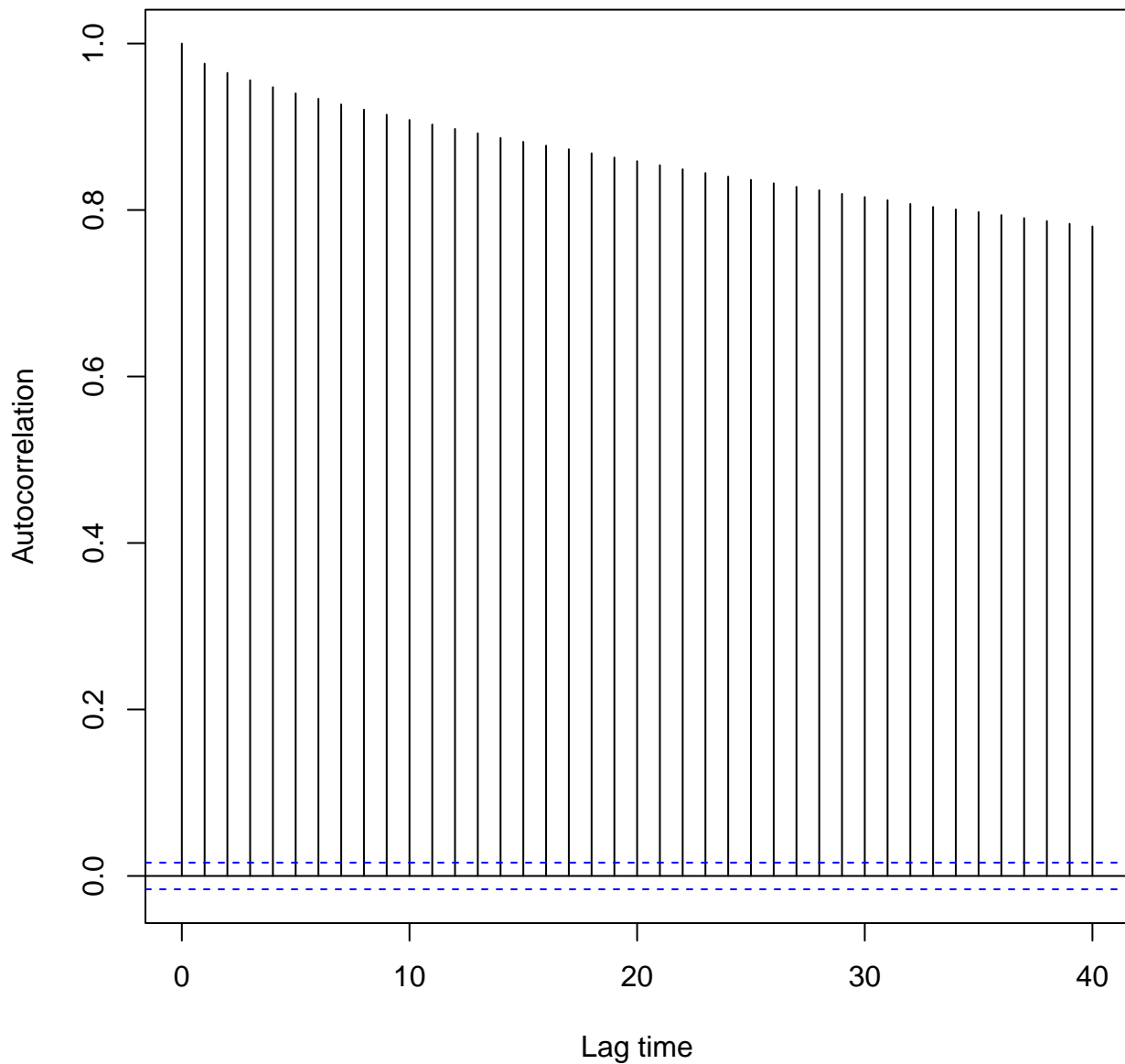


## Mutation E GAA Mixture: 2

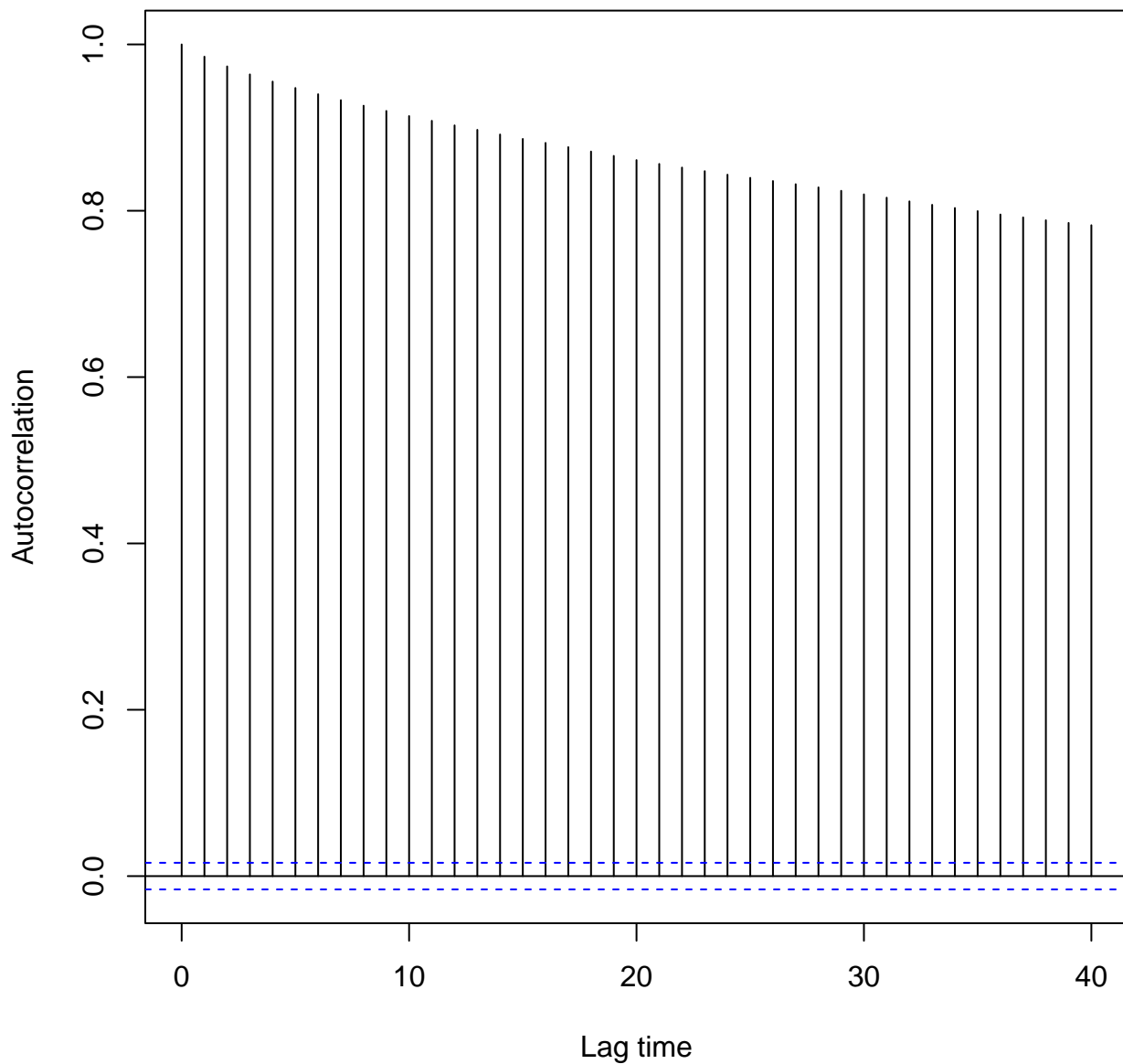




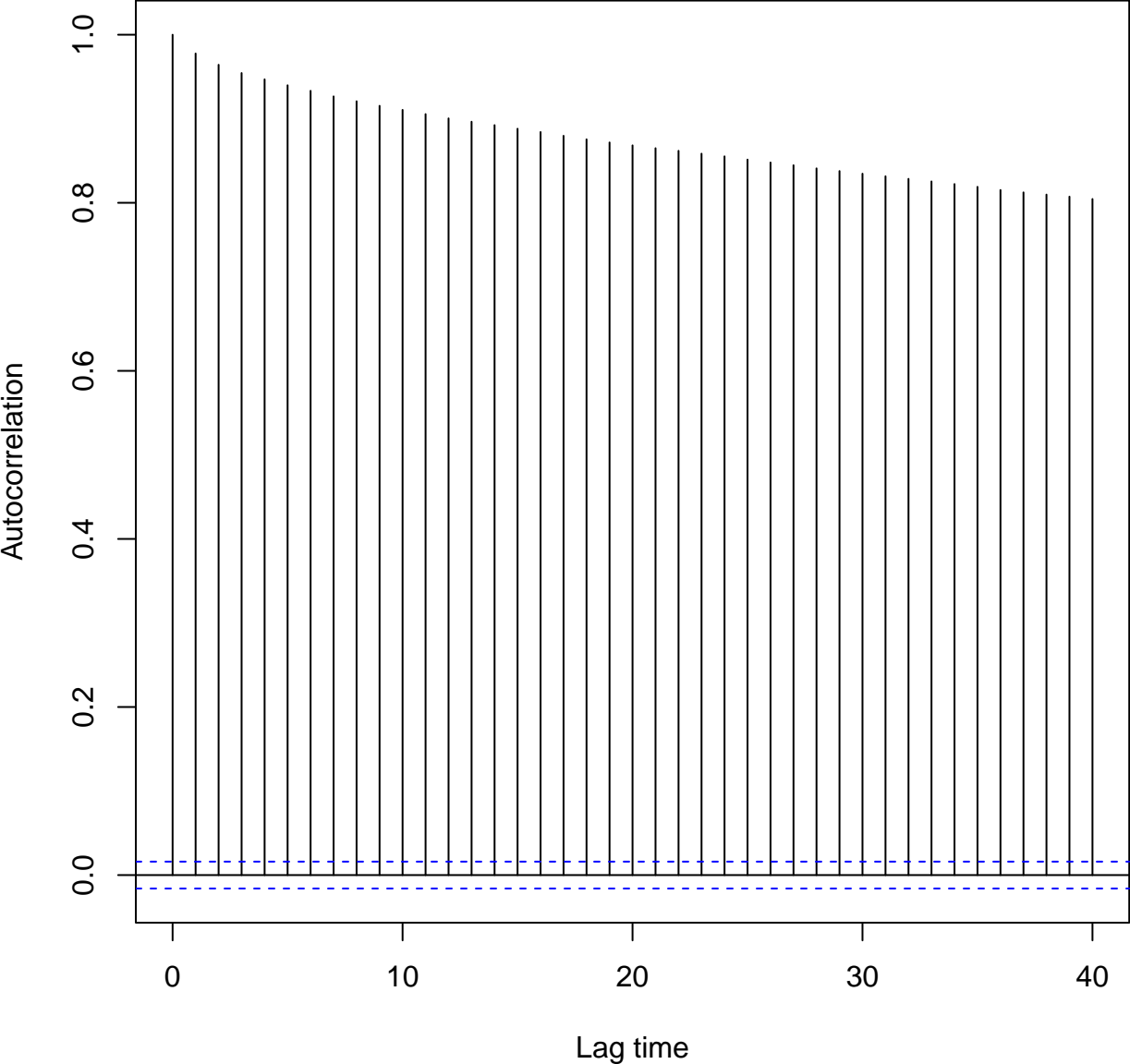
# Mutation F TTC Mixture: 1



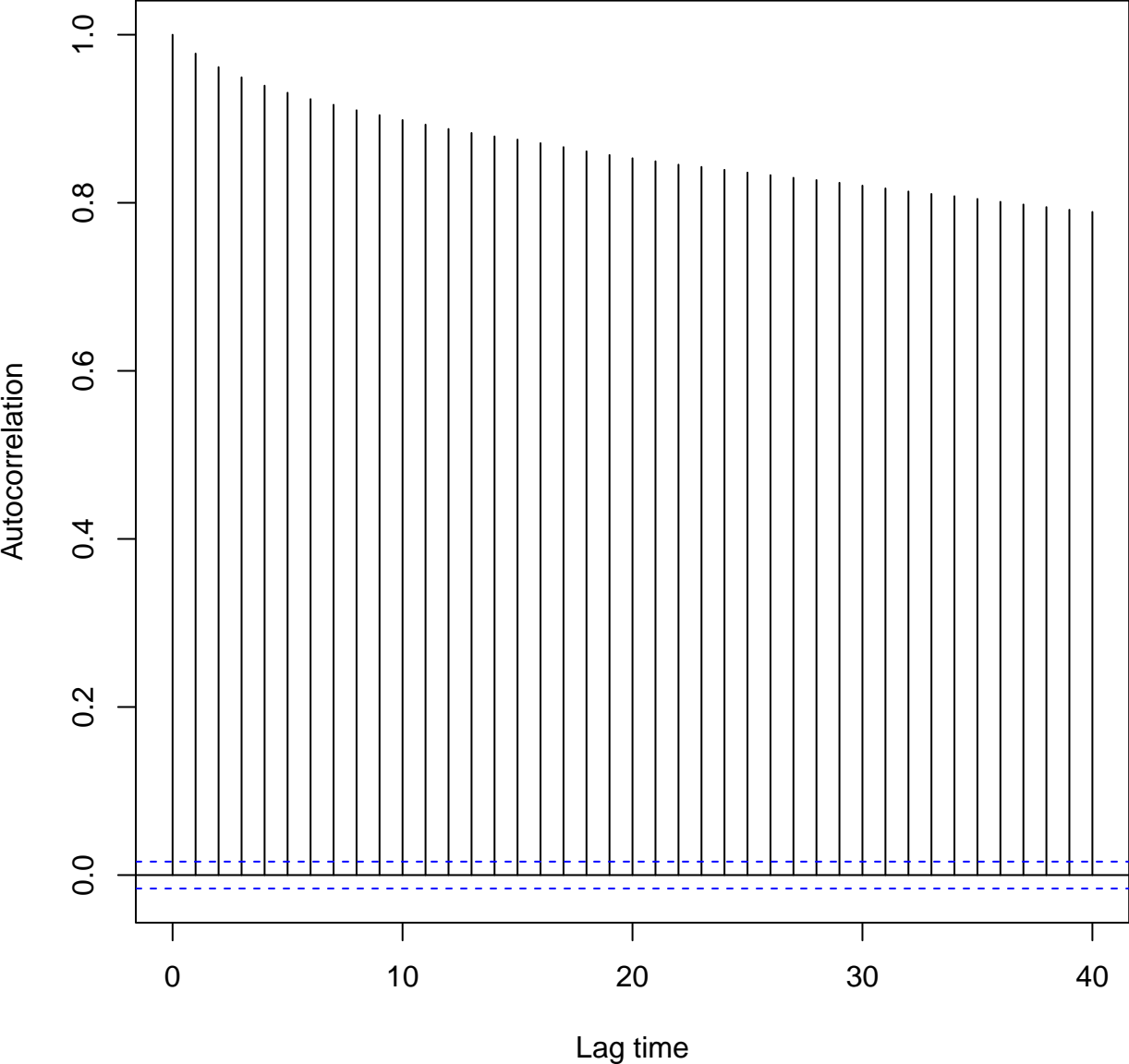
## Mutation F TTC Mixture: 2



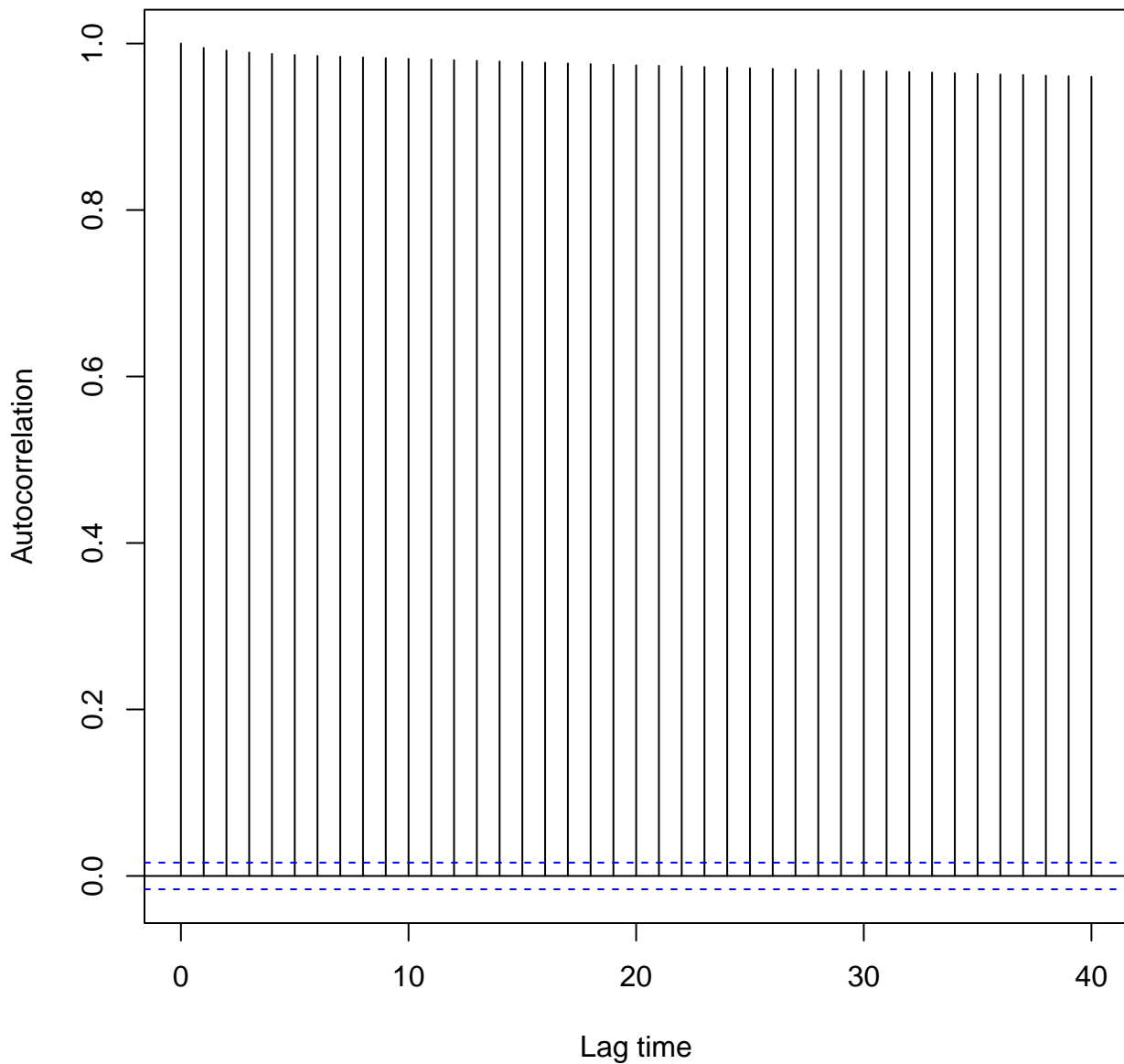
**Mutation G GGA Mixture: 1**



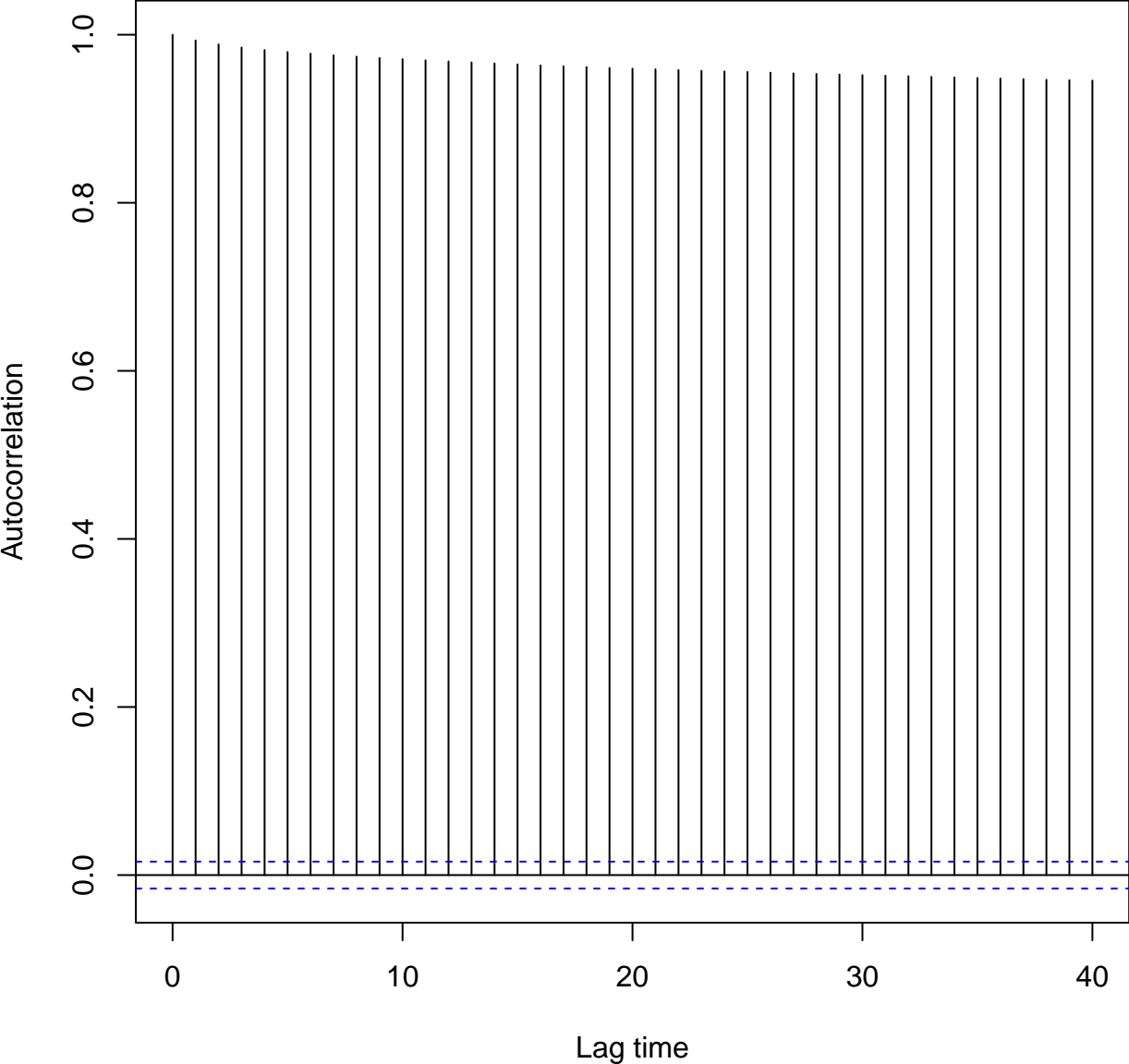
**Mutation G GGA Mixture: 2**



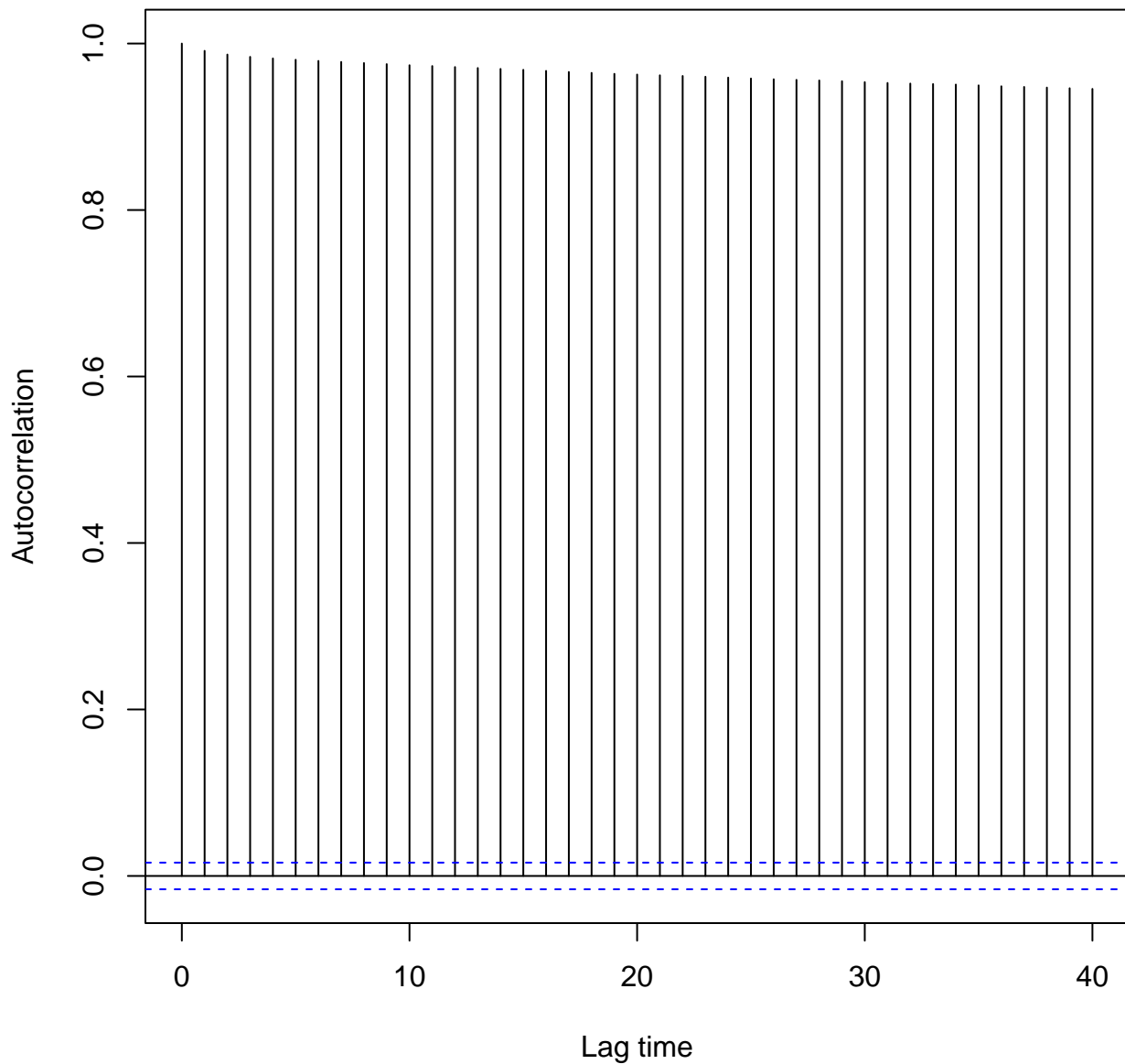
# Mutation G GGC Mixture: 1



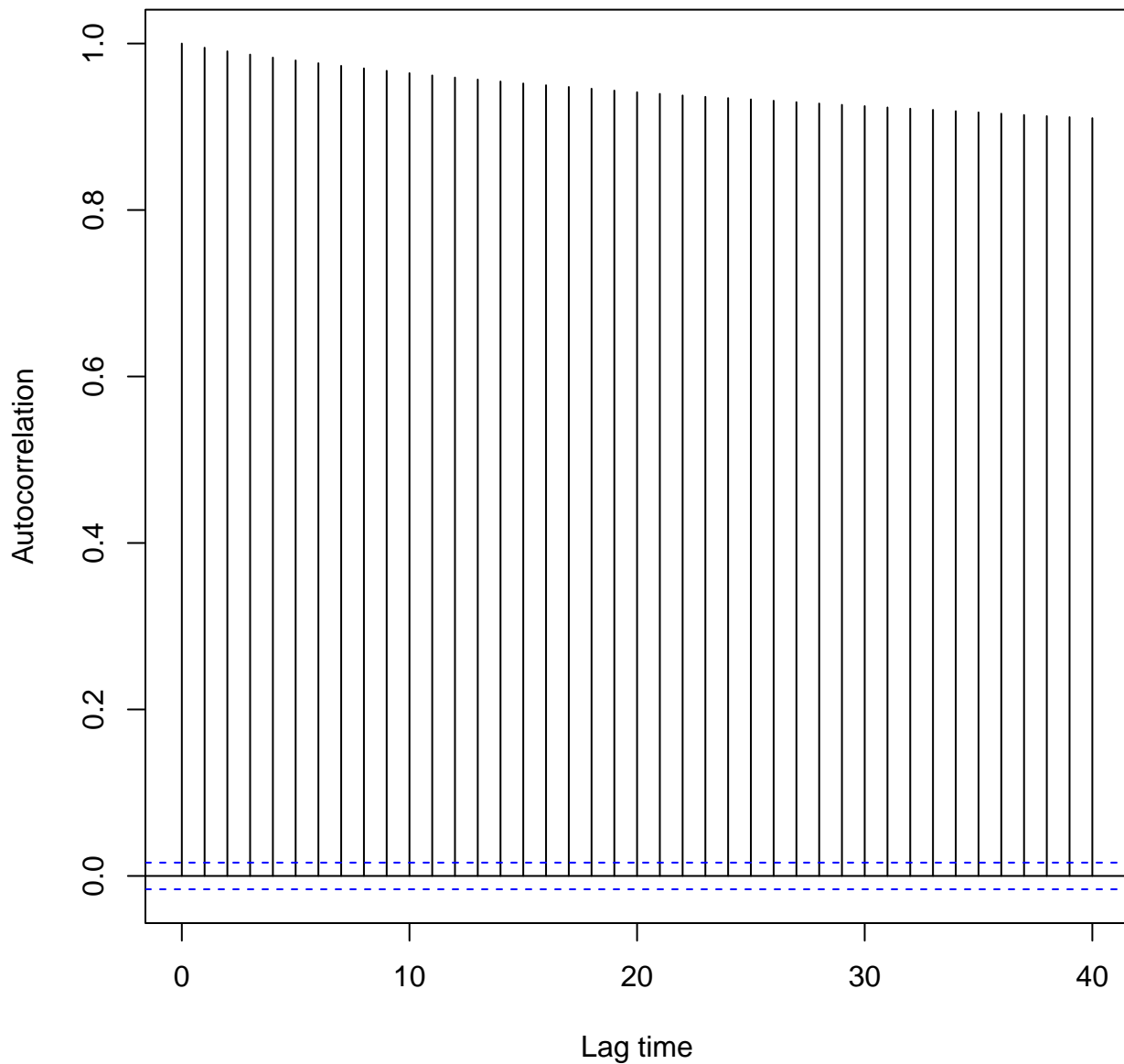
**Mutation G GGC Mixture: 2**



# Mutation G GGG Mixture: 1

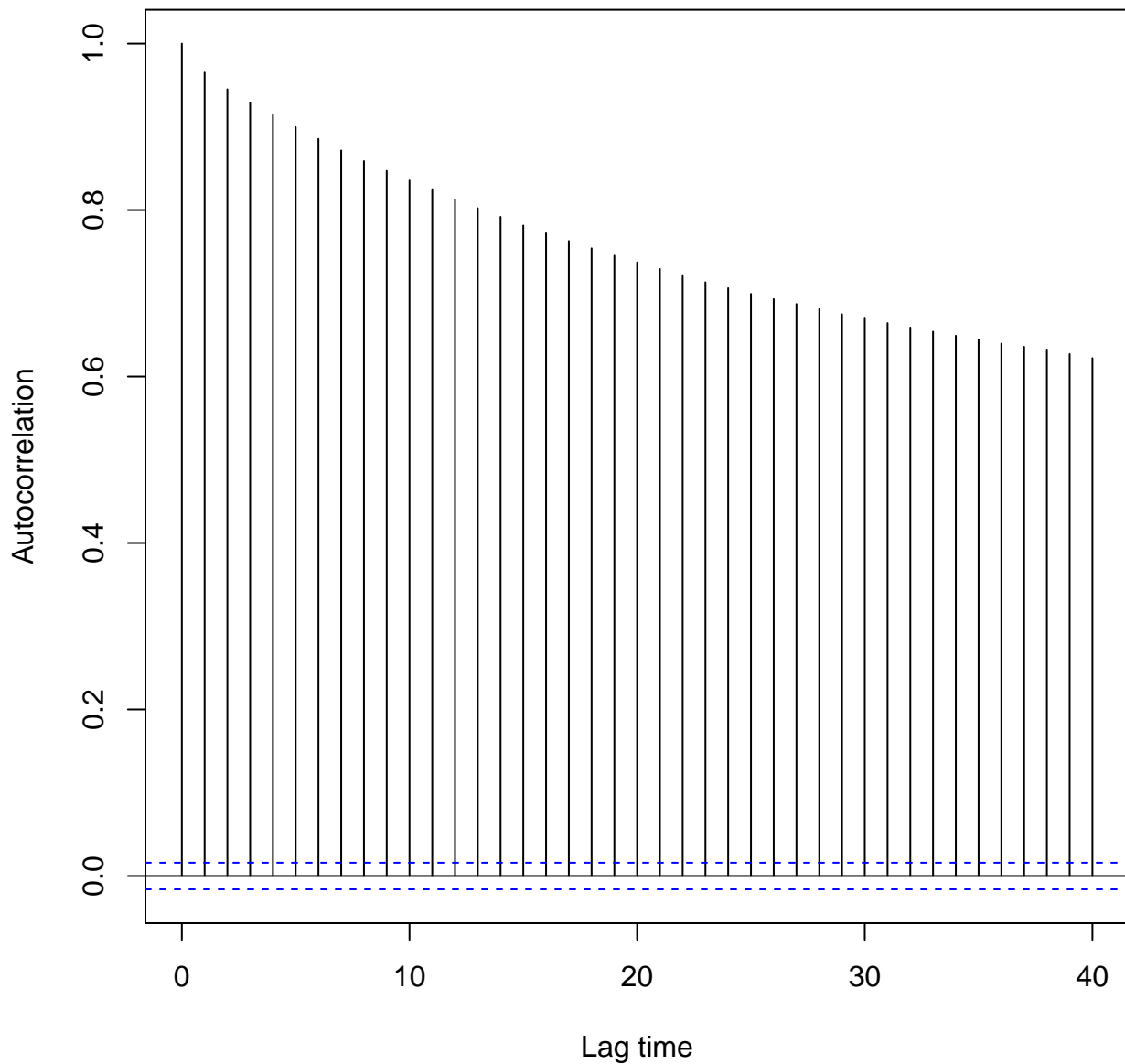


## Mutation G GGG Mixture: 2

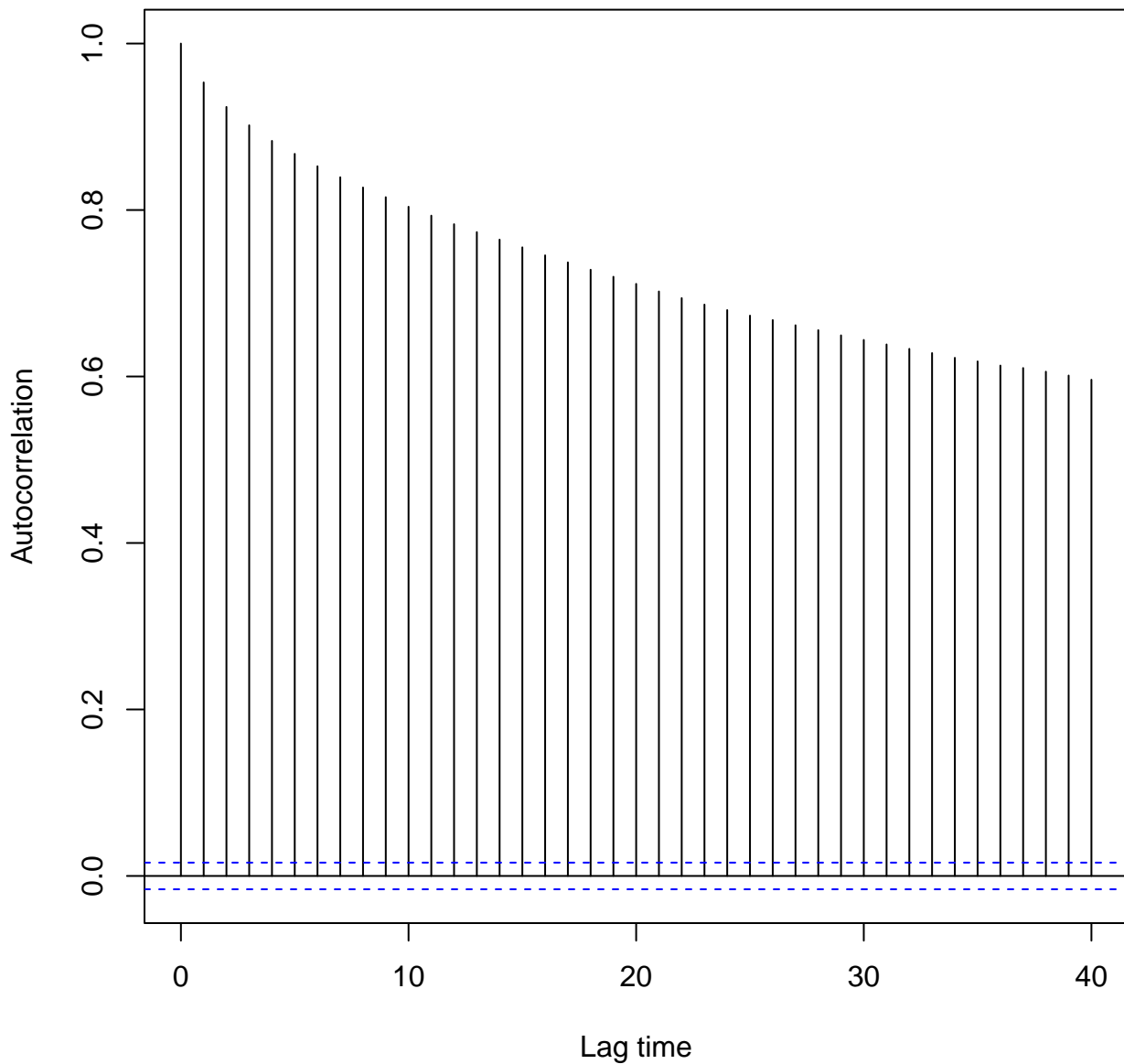




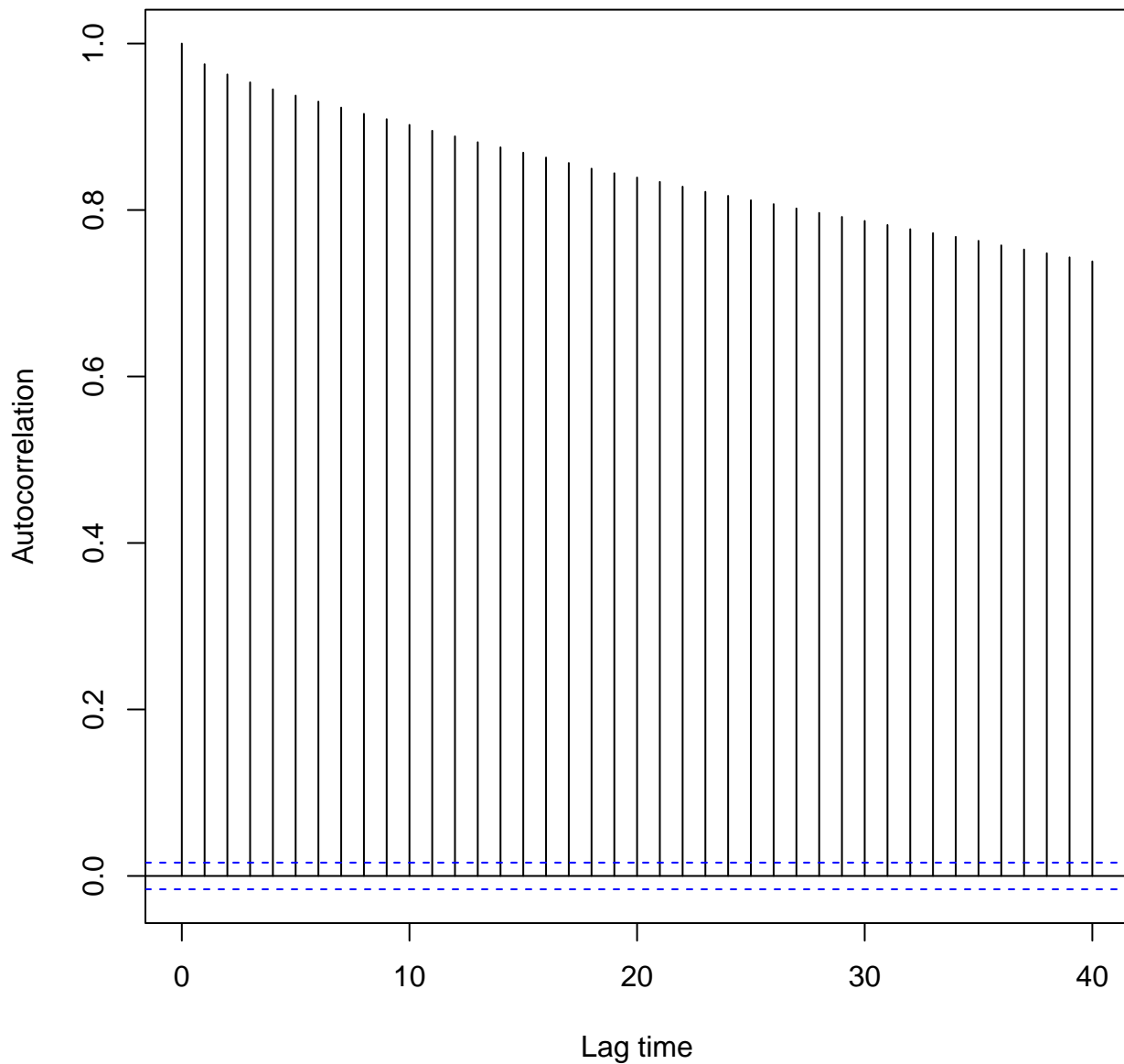
# Mutation H CAC Mixture: 1



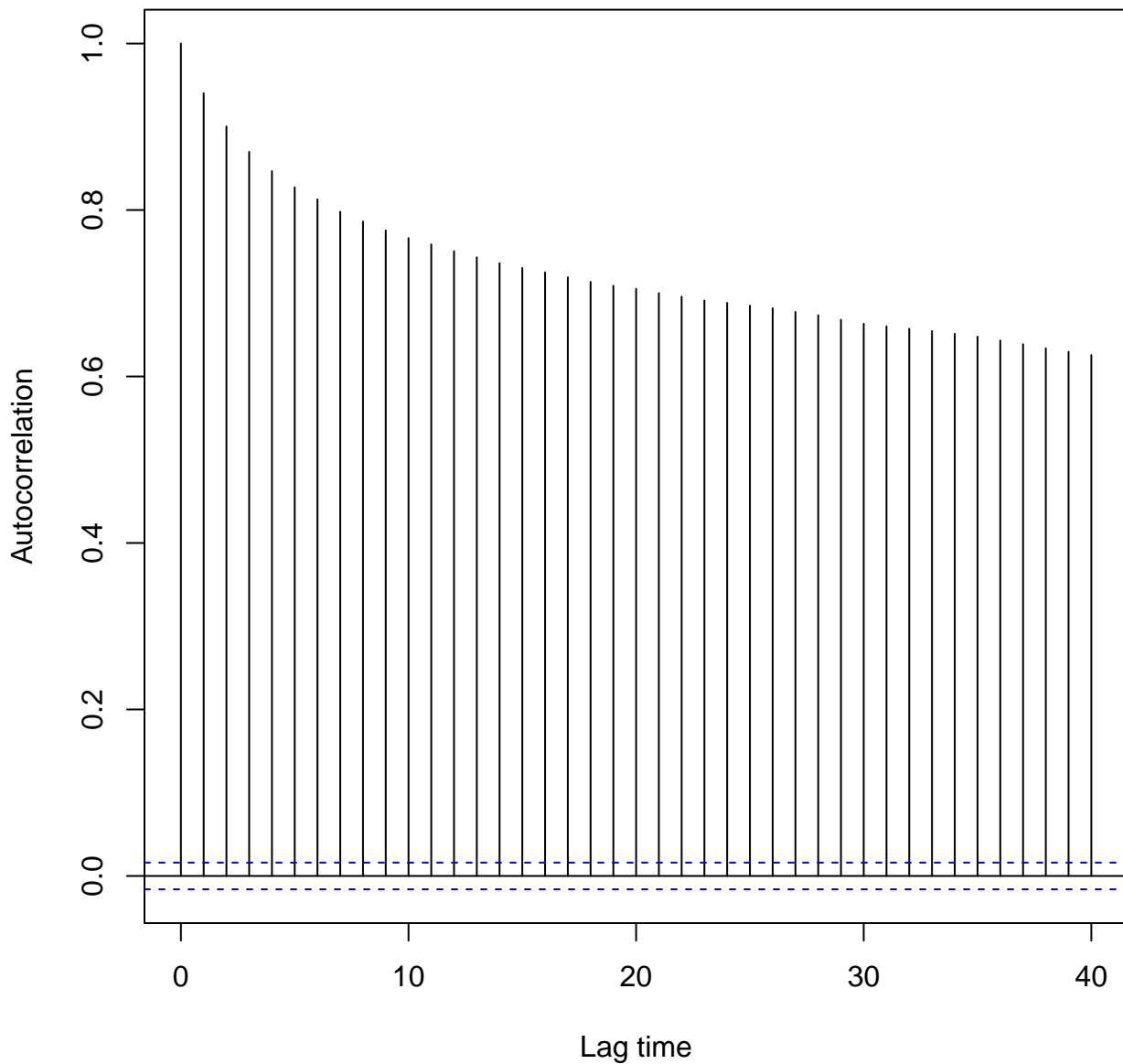
## Mutation H CAC Mixture: 2



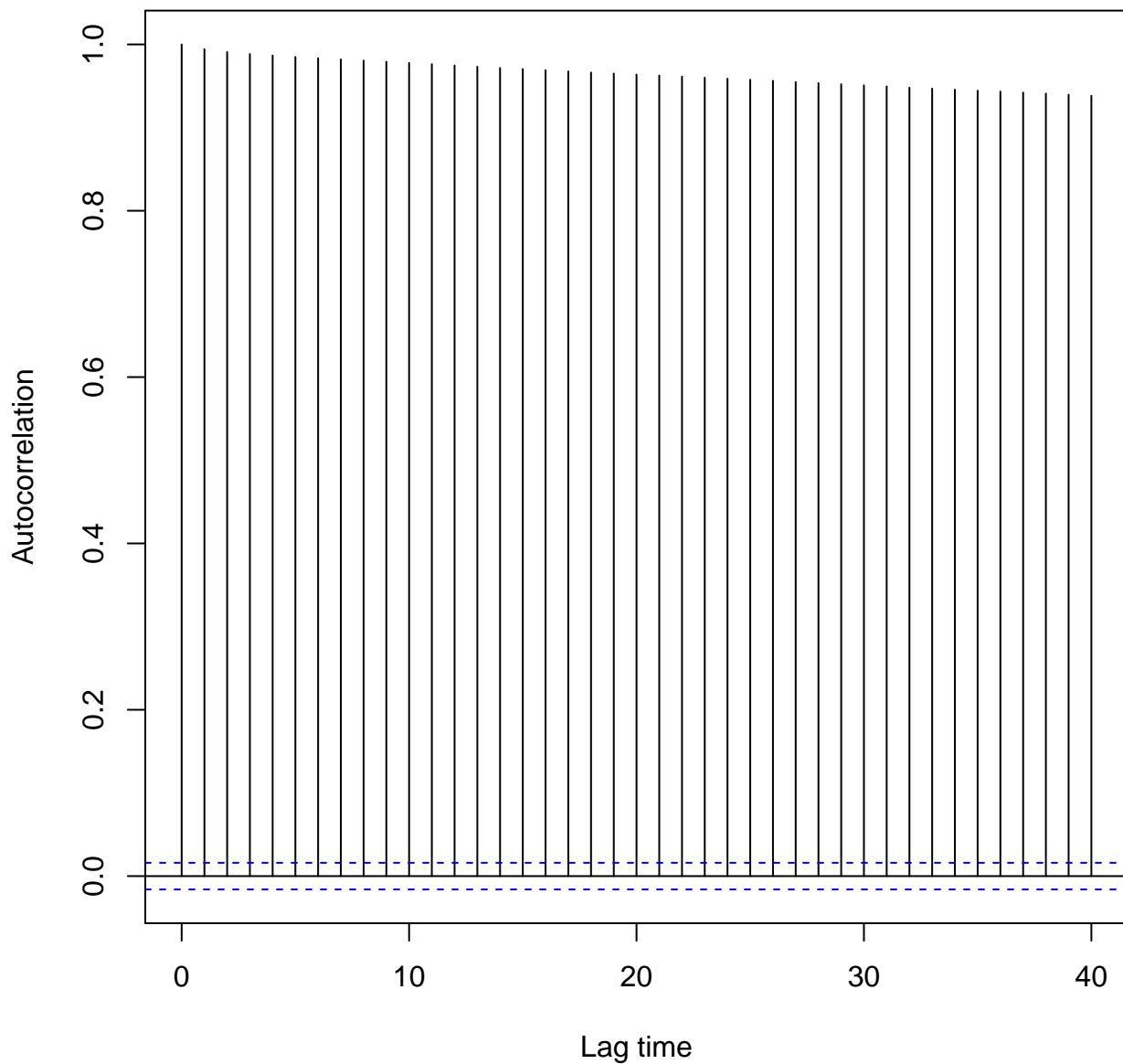
# Mutation I ATA Mixture: 1



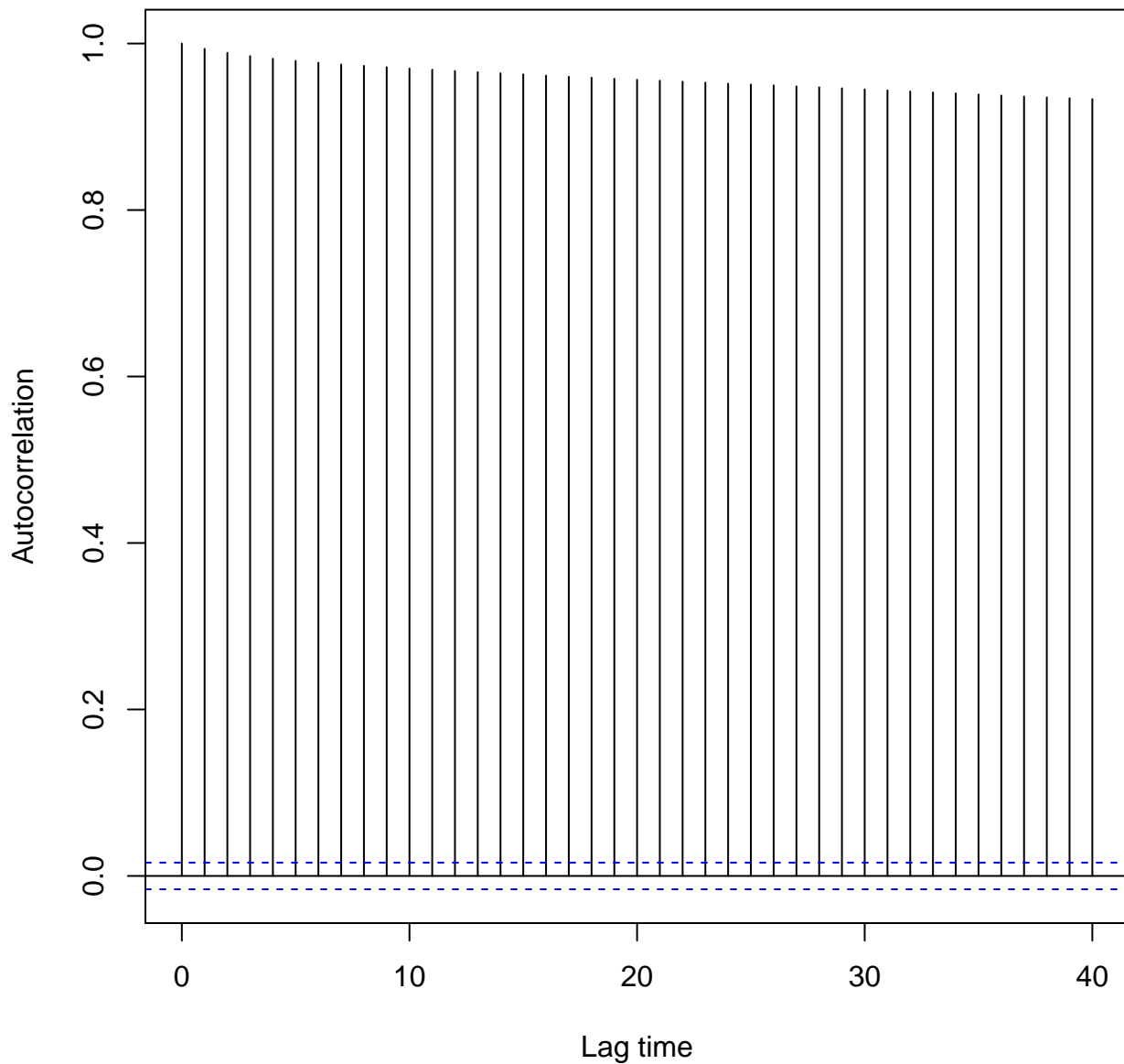
## Mutation I ATA Mixture: 2



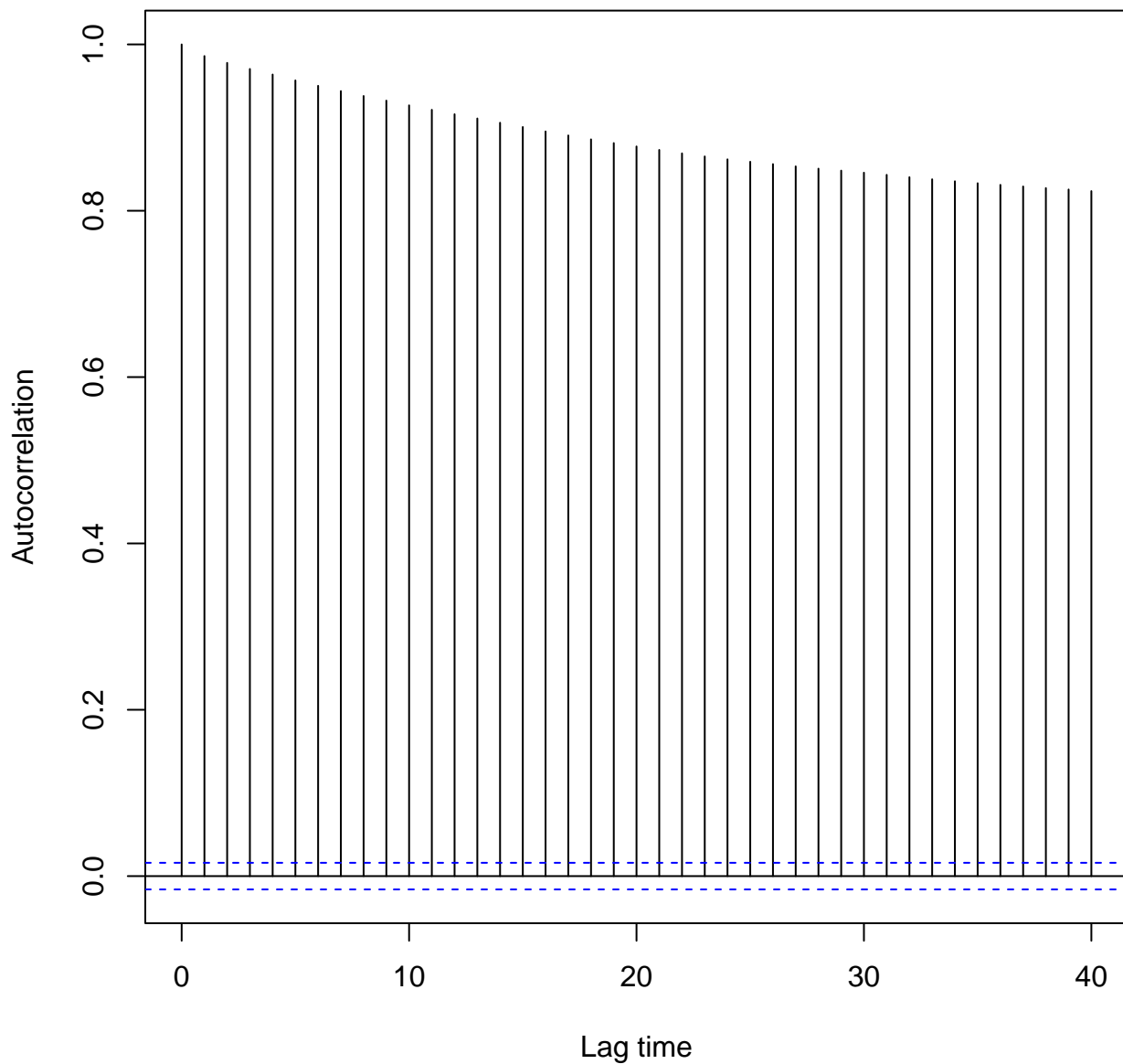
# Mutation I ATC Mixture: 1



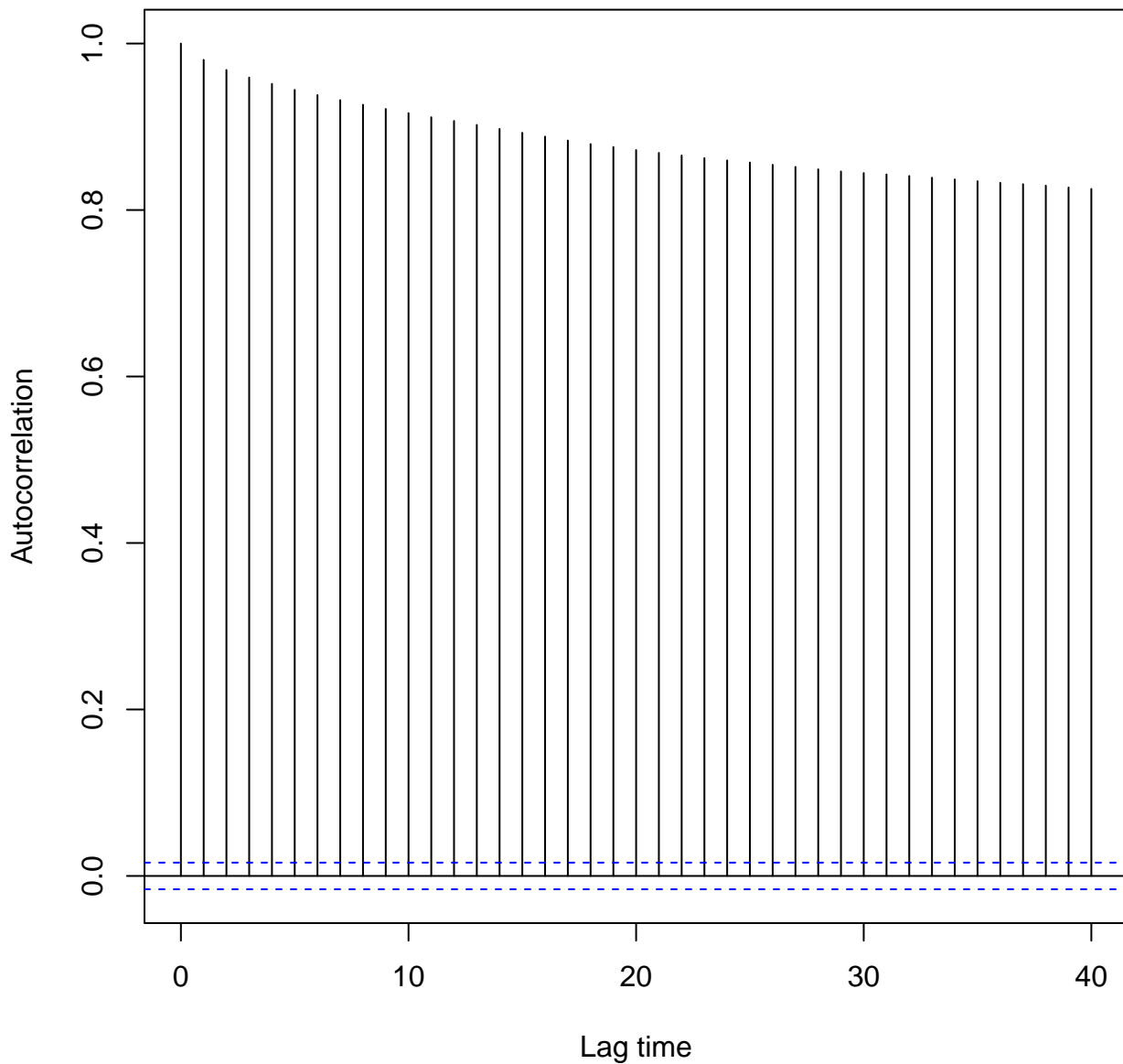
## Mutation I ATC Mixture: 2



# Mutation K AAA Mixture: 1

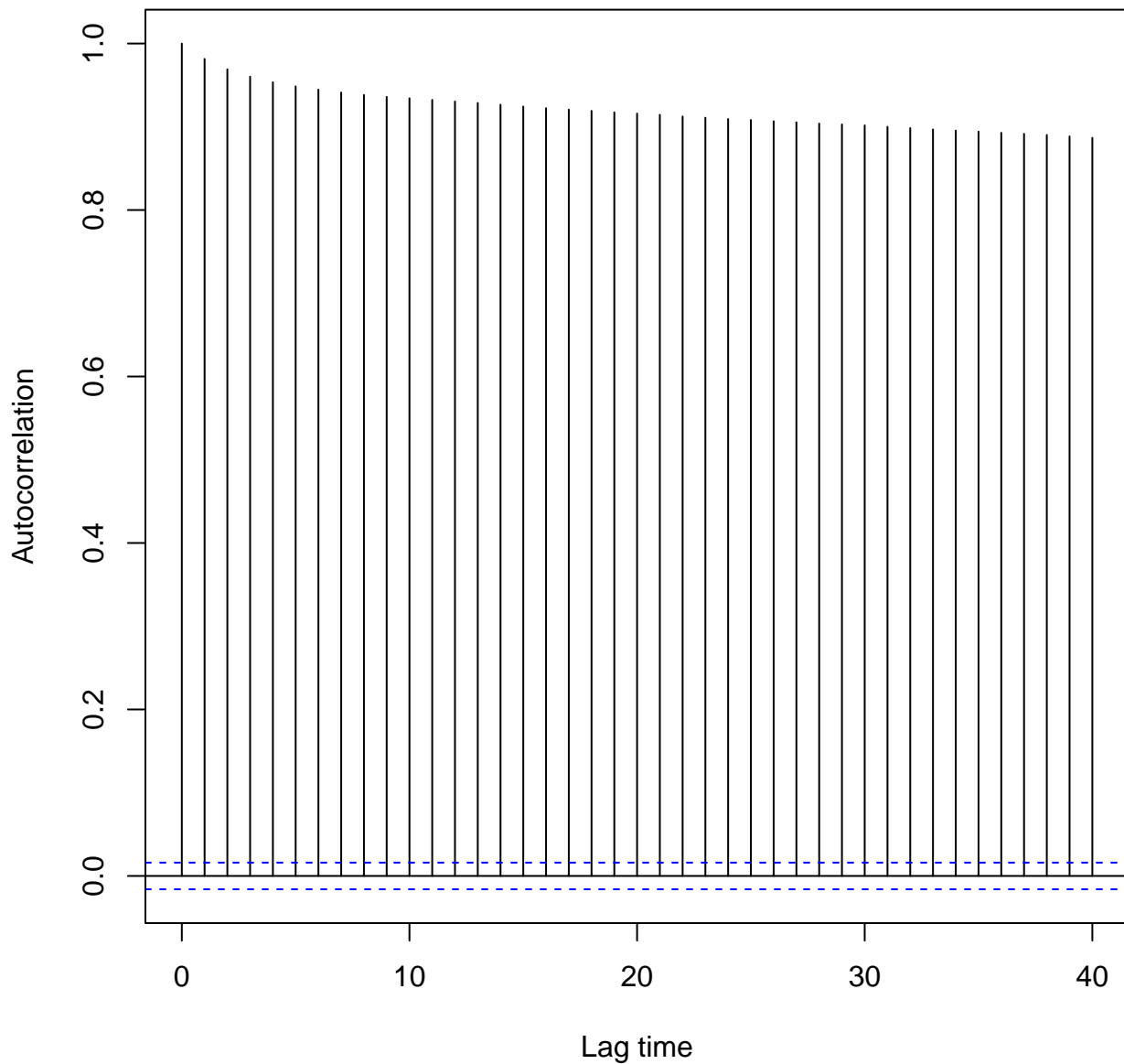


## Mutation K AAA Mixture: 2

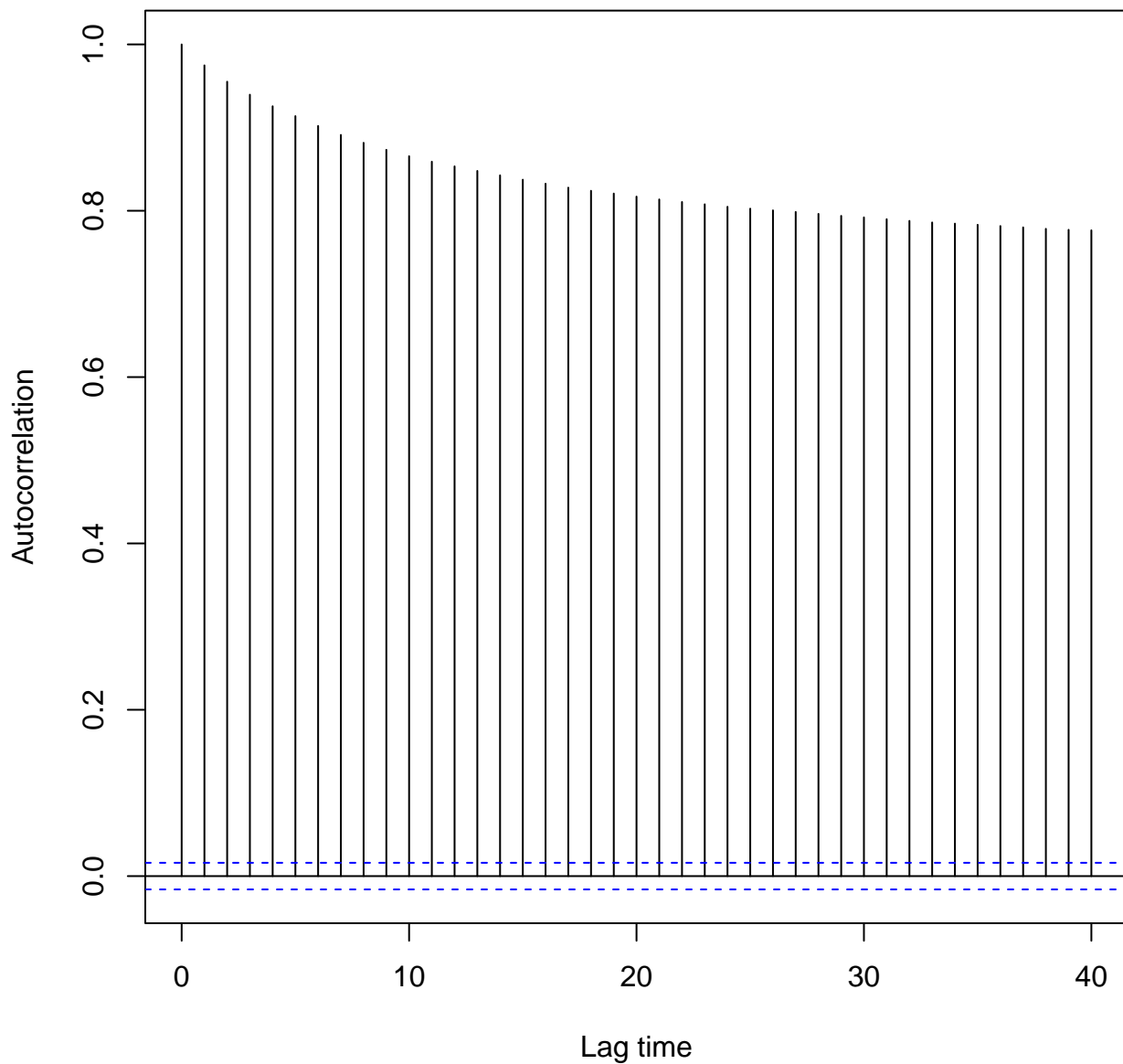




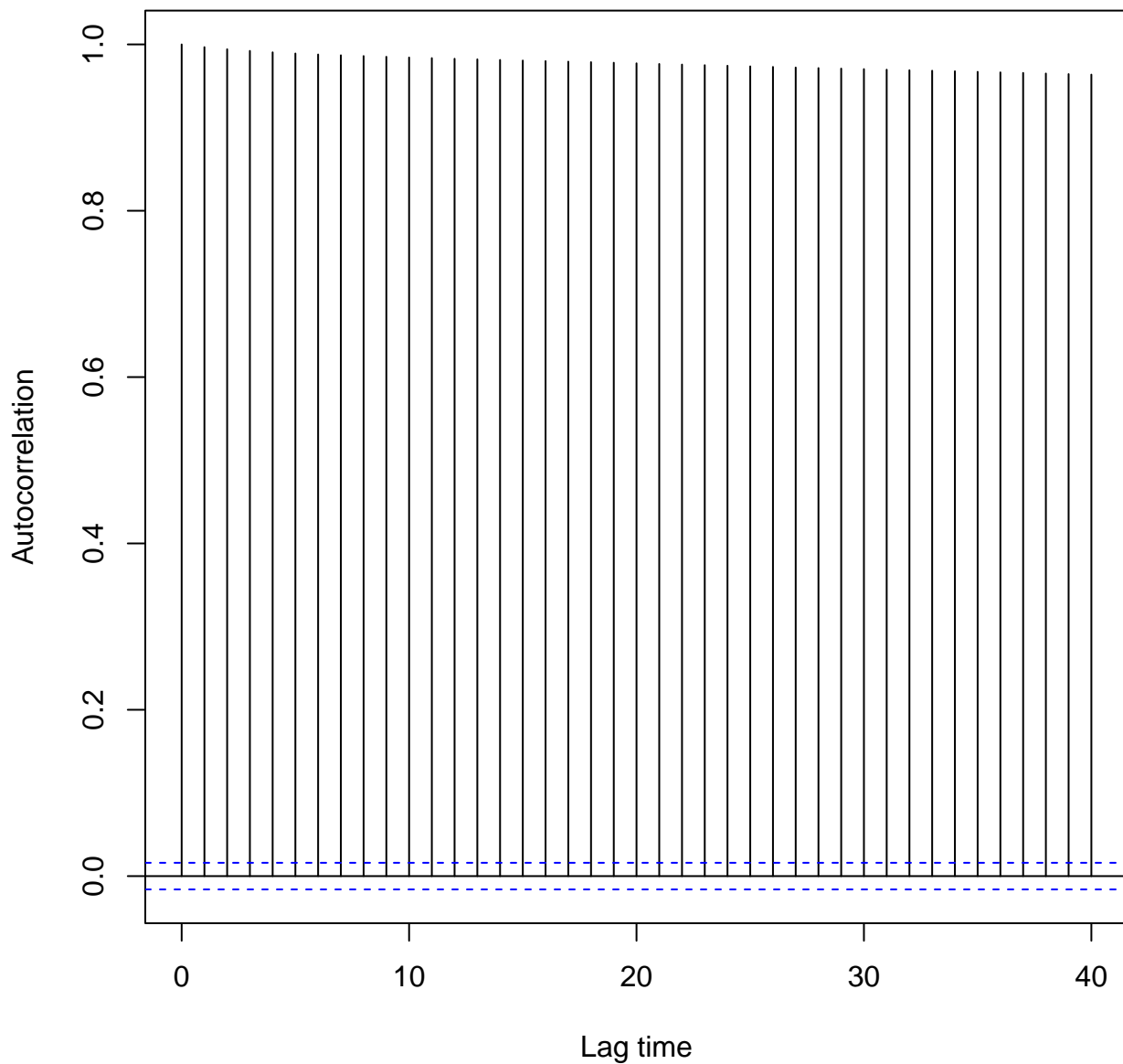
# Mutation L CTA Mixture: 1



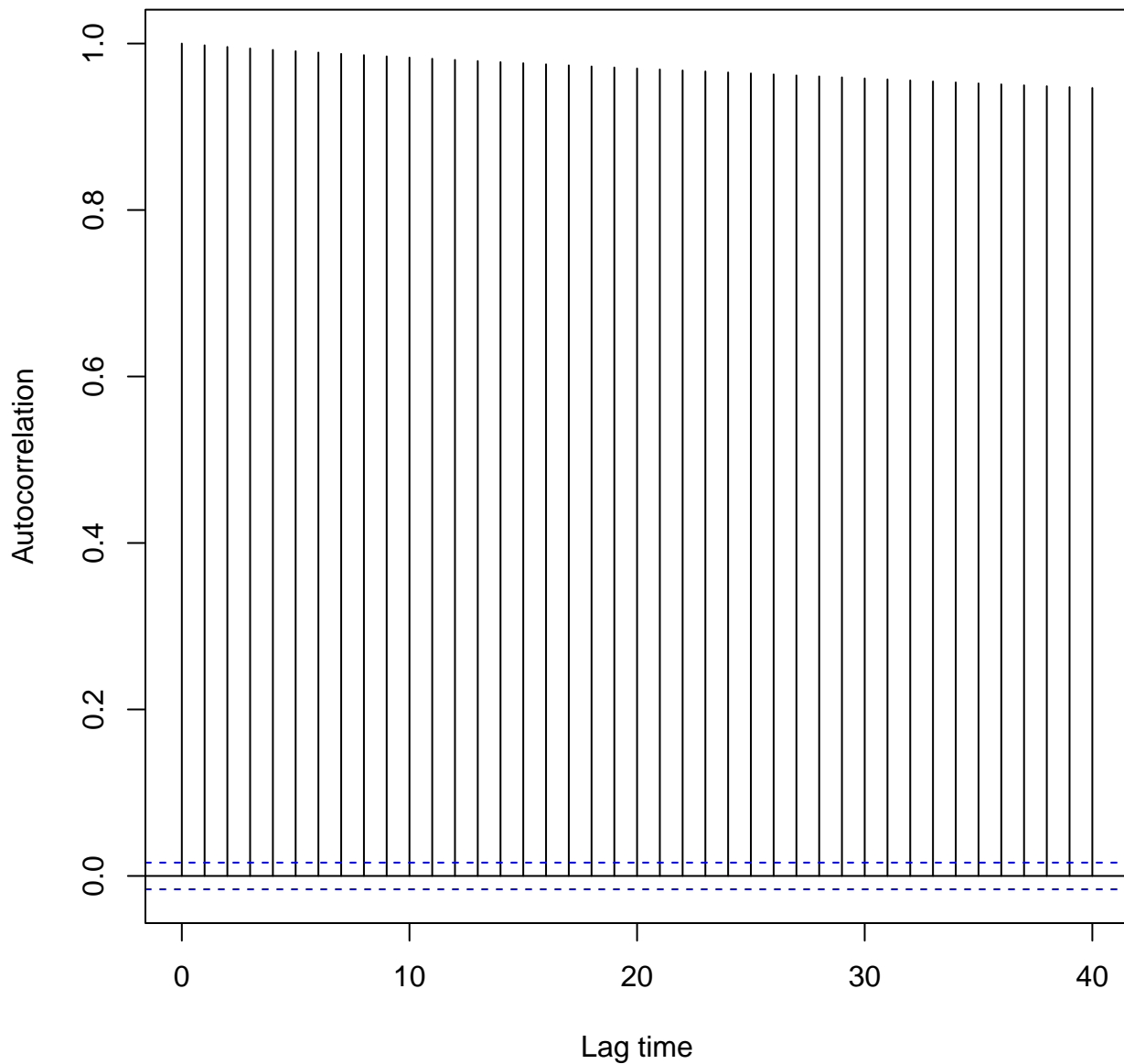
## Mutation L CTA Mixture: 2



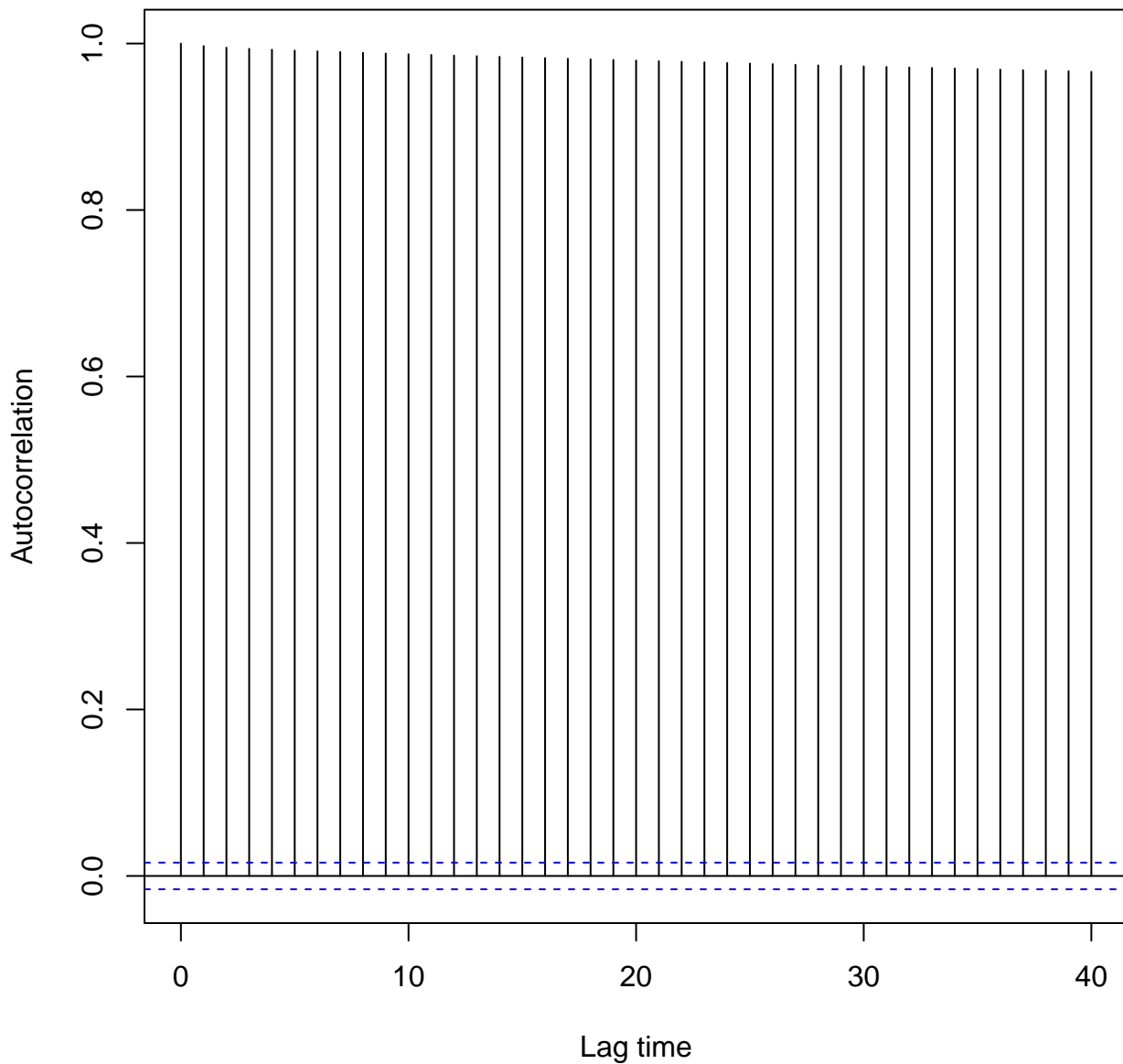
# Mutation L CTC Mixture: 1



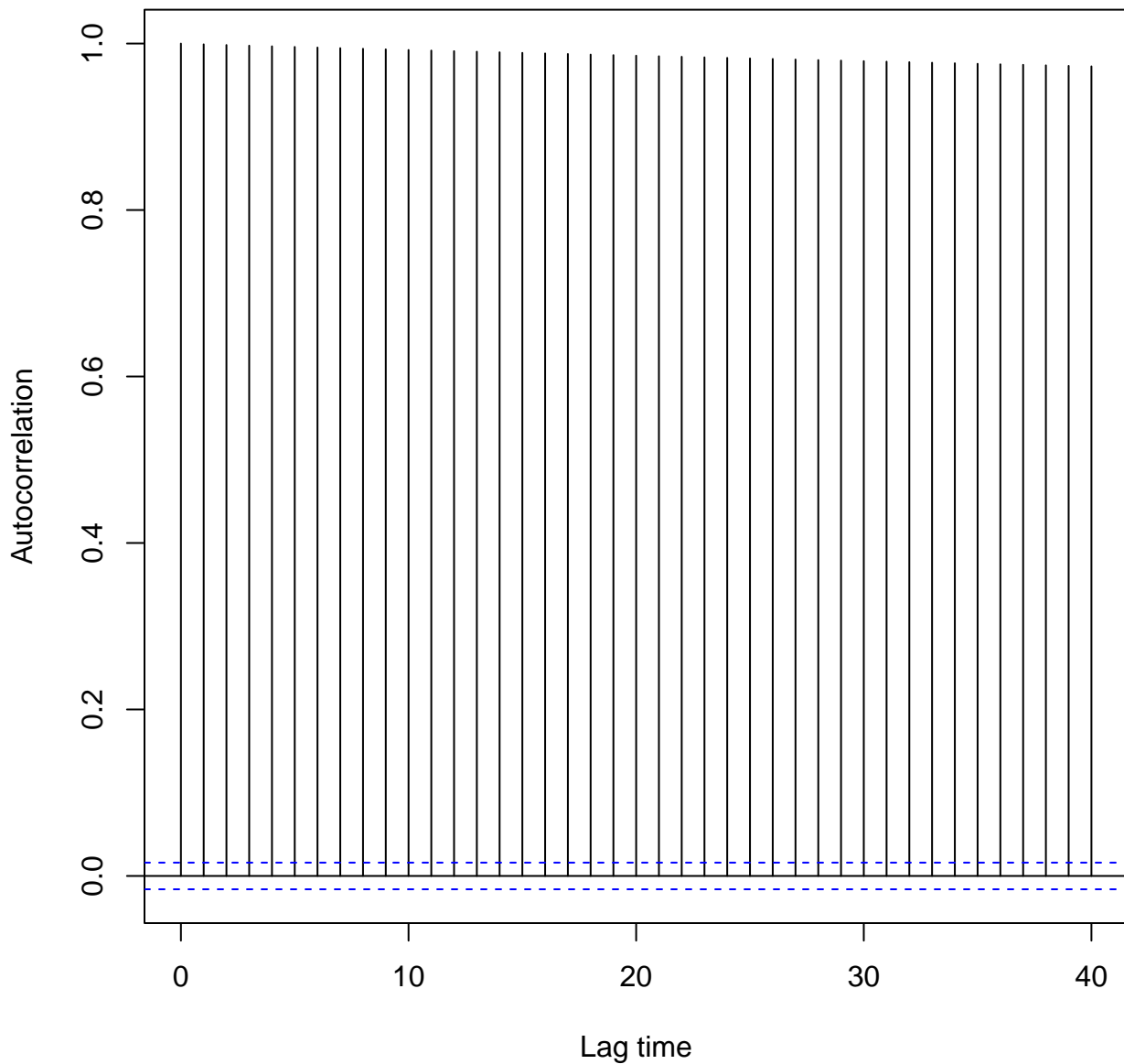
## Mutation L CTC Mixture: 2



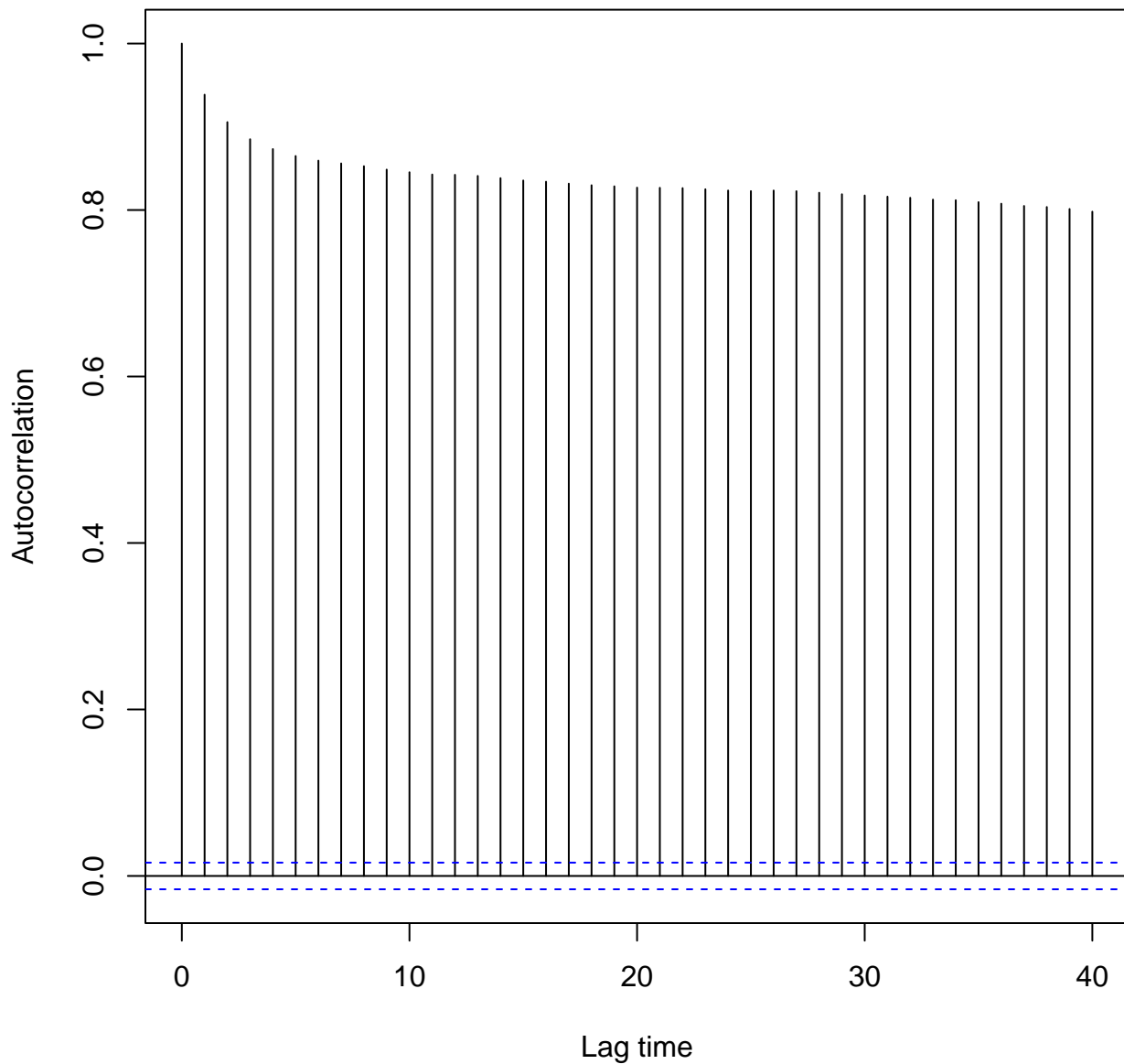
# Mutation L CTG Mixture: 1



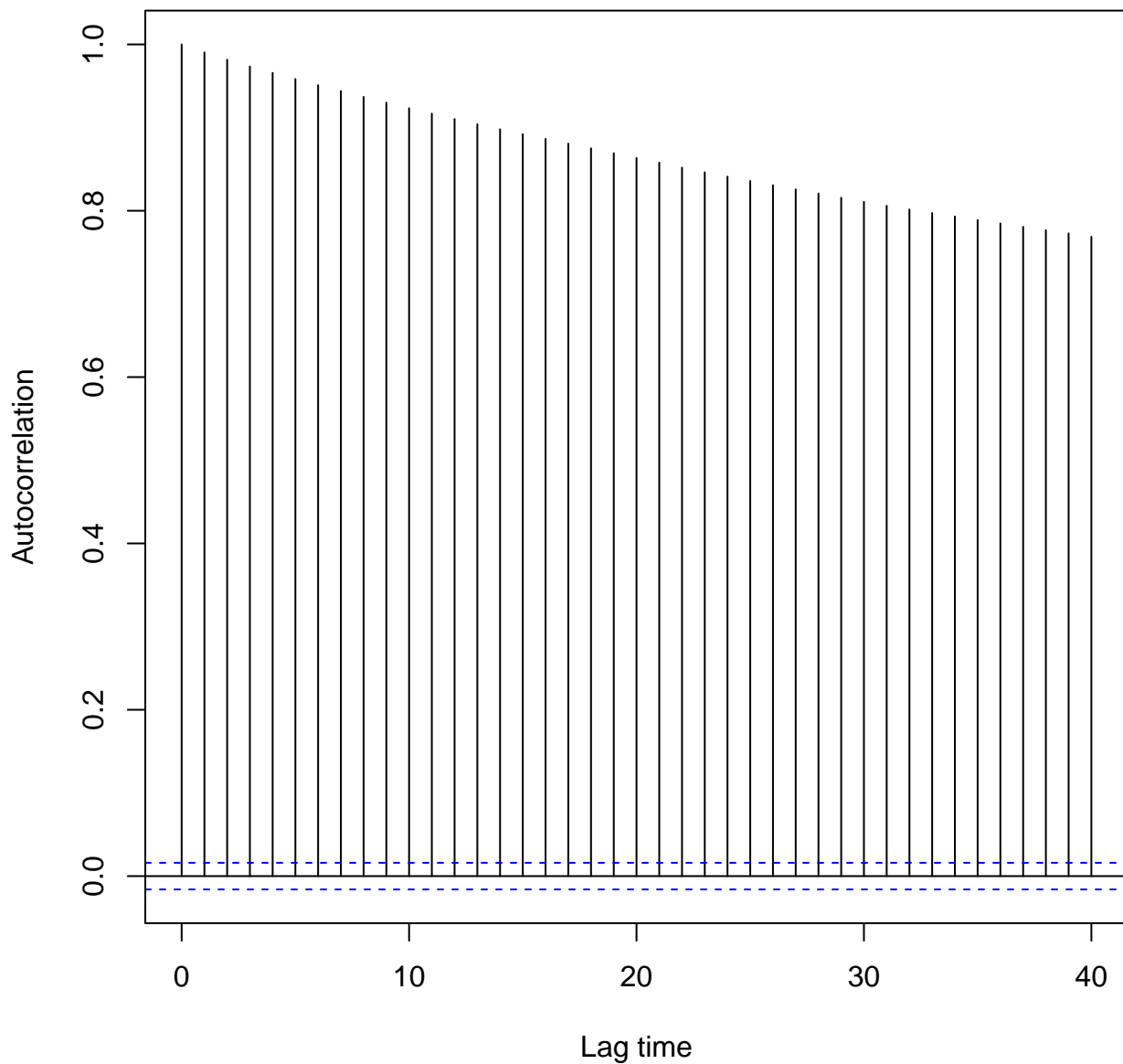
## Mutation L CTG Mixture: 2



# Mutation L CTT Mixture: 1

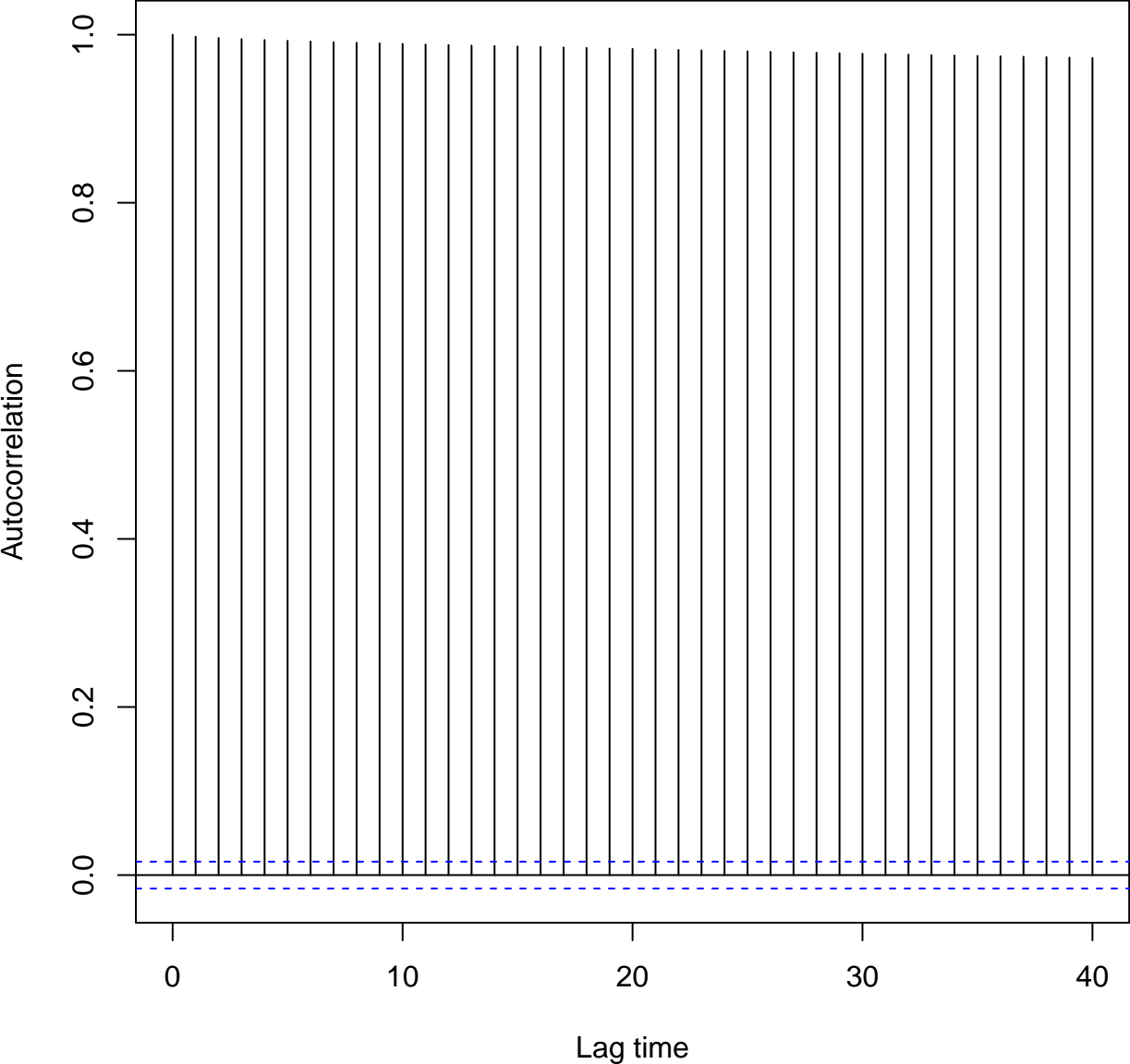


## Mutation L CTT Mixture: 2

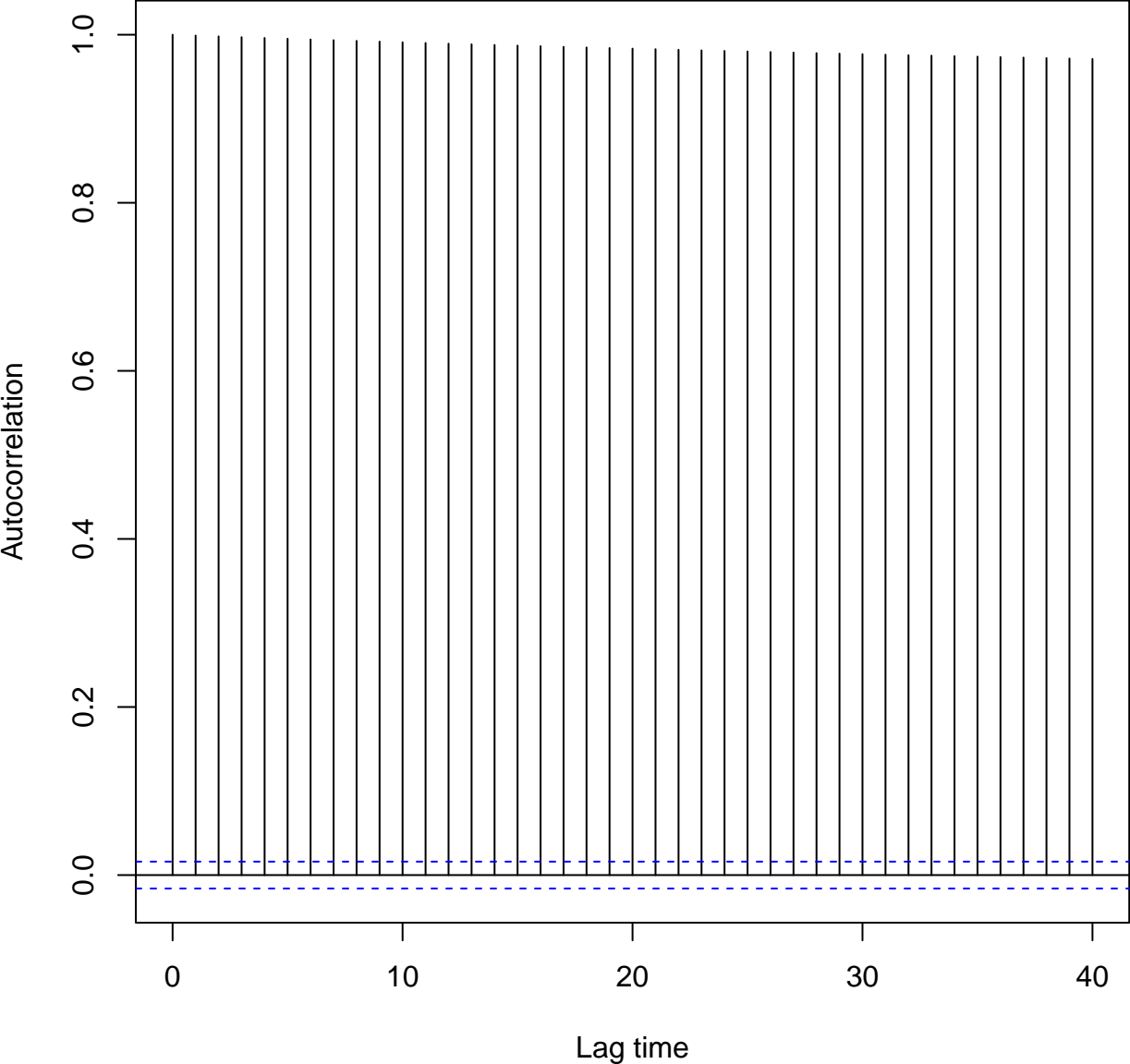




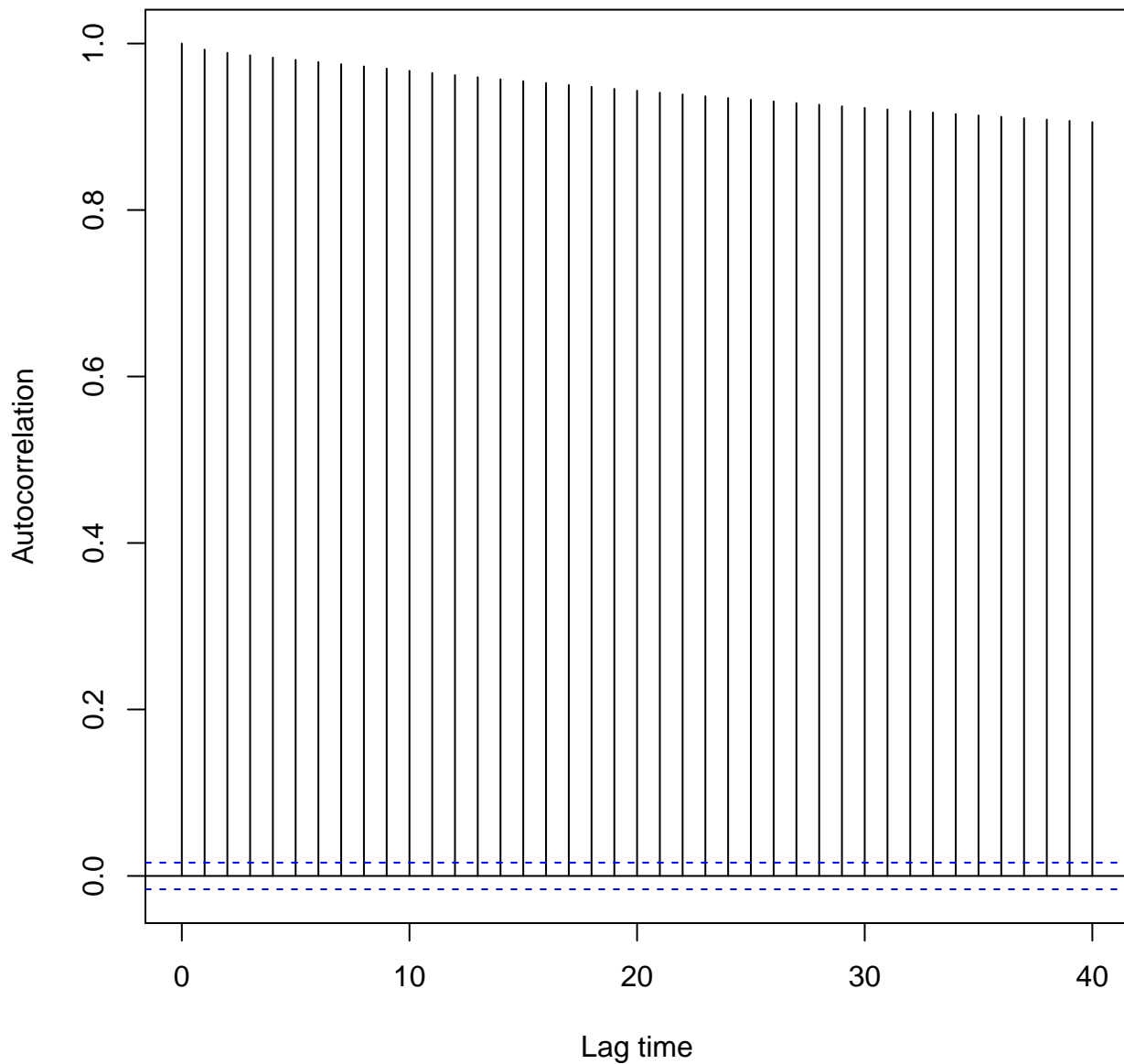
**Mutation L TTA Mixture: 1**



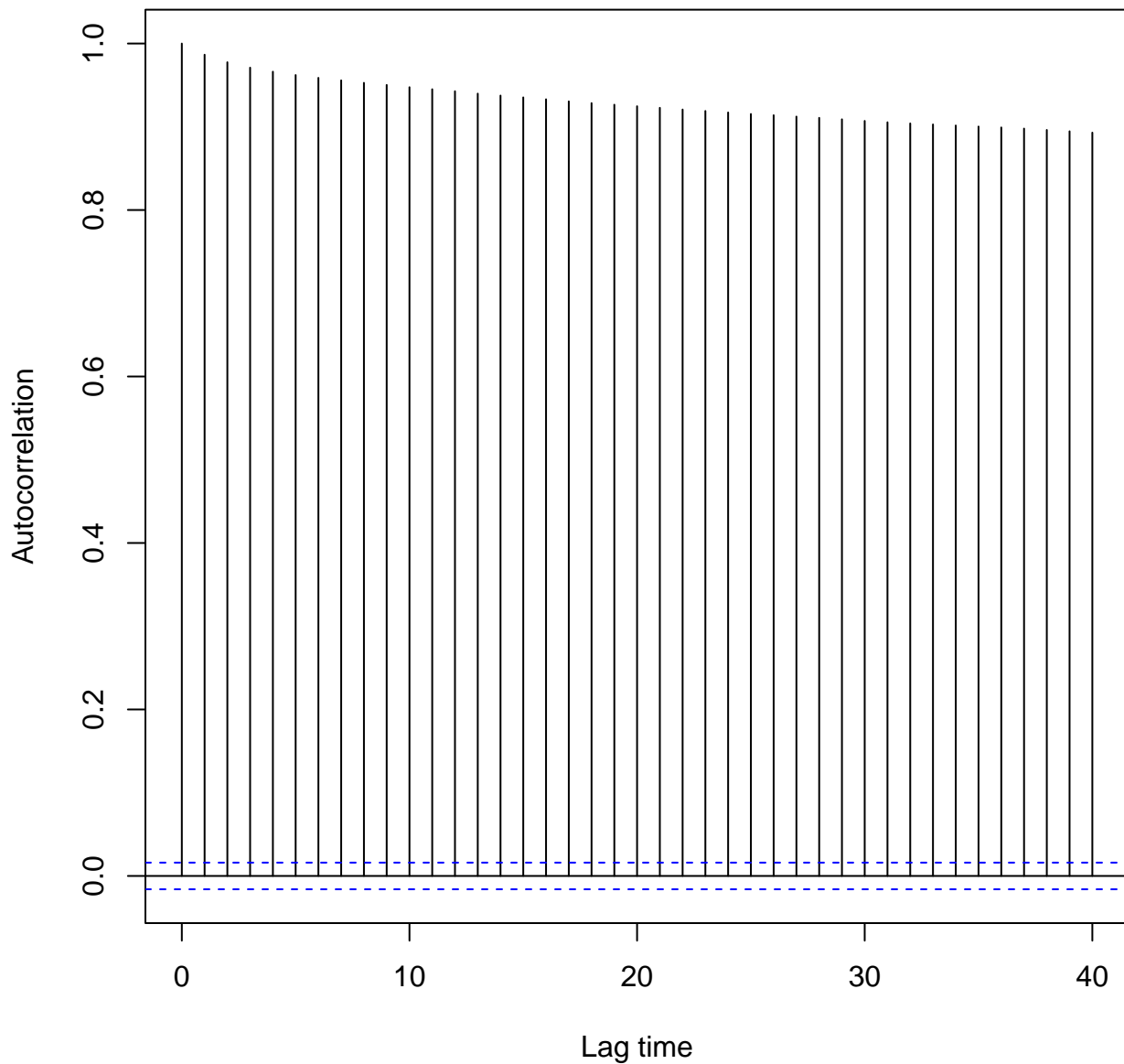
**Mutation L TTA Mixture: 2**



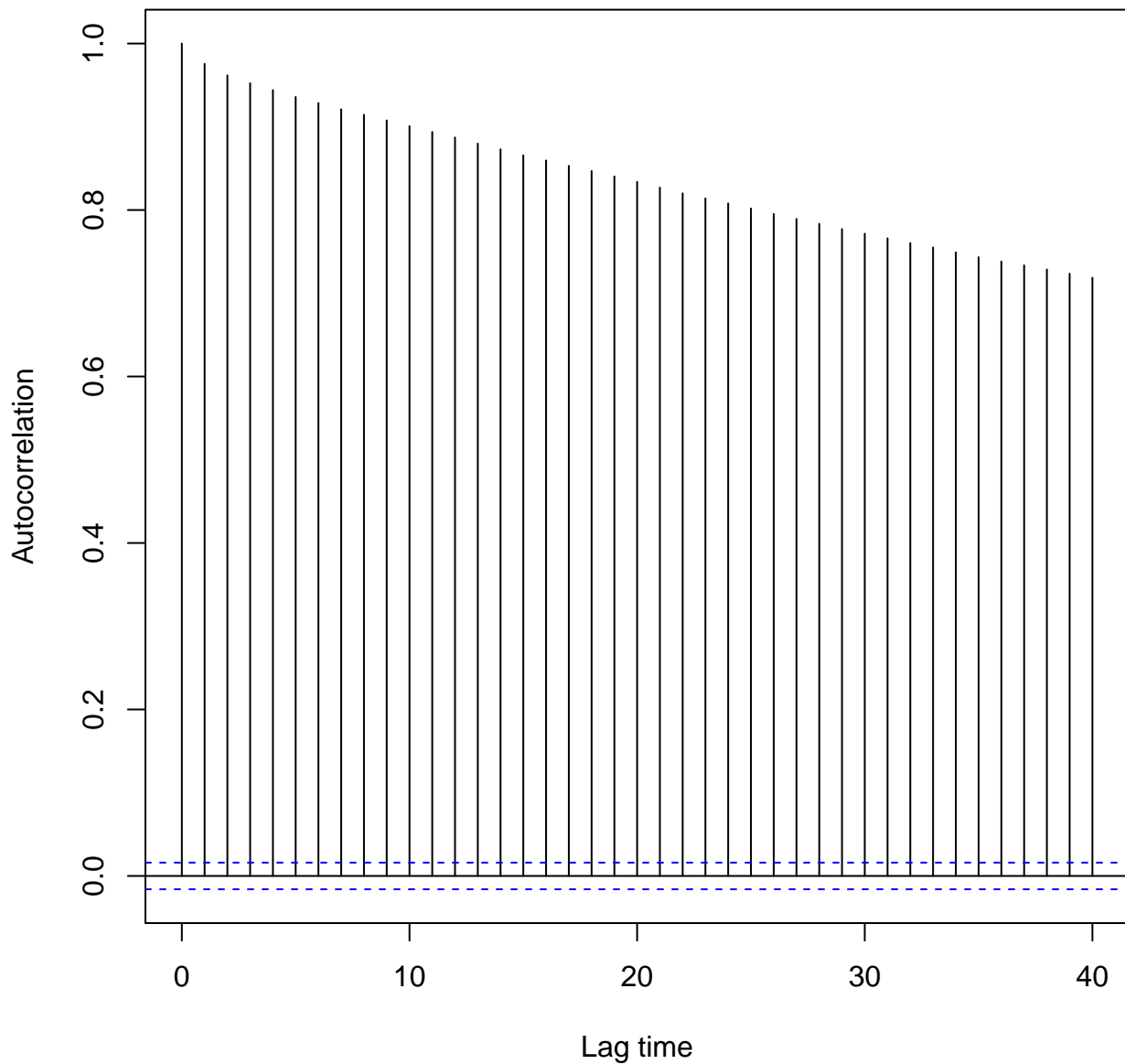
# Mutation N AAC Mixture: 1



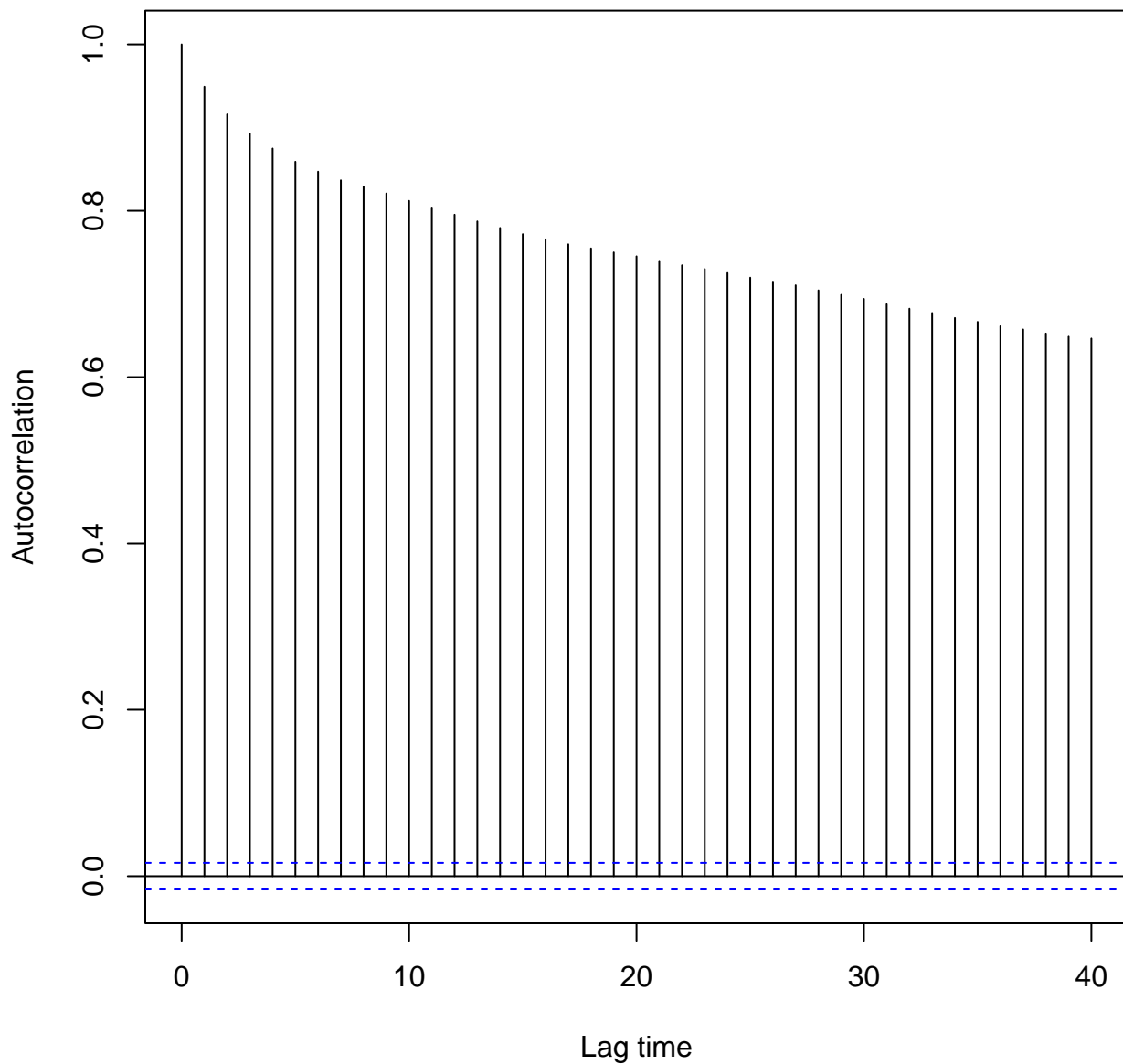
## Mutation N AAC Mixture: 2



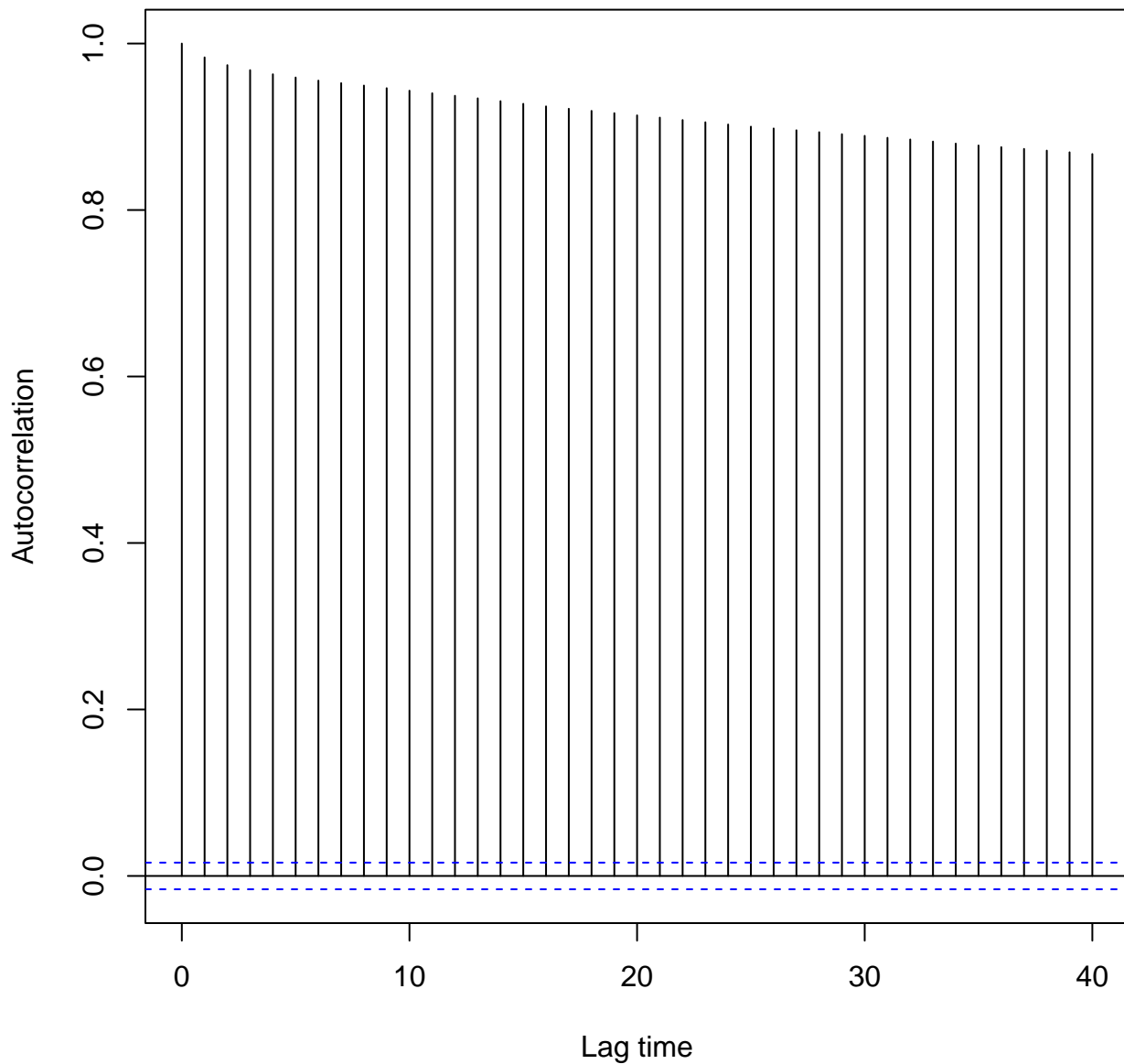
# Mutation P CCA Mixture: 1



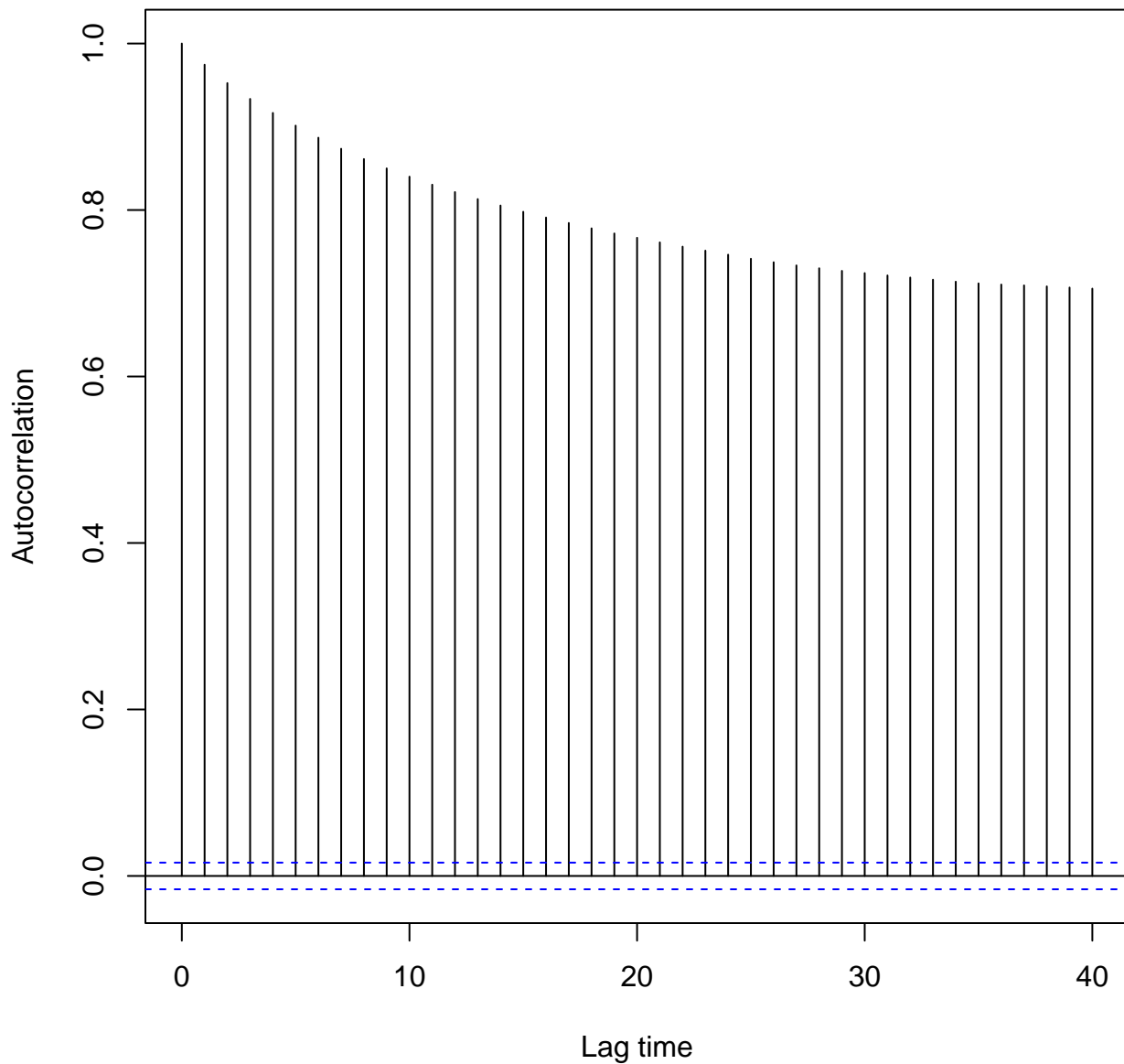
## Mutation P CCA Mixture: 2



# Mutation P CCC Mixture: 1

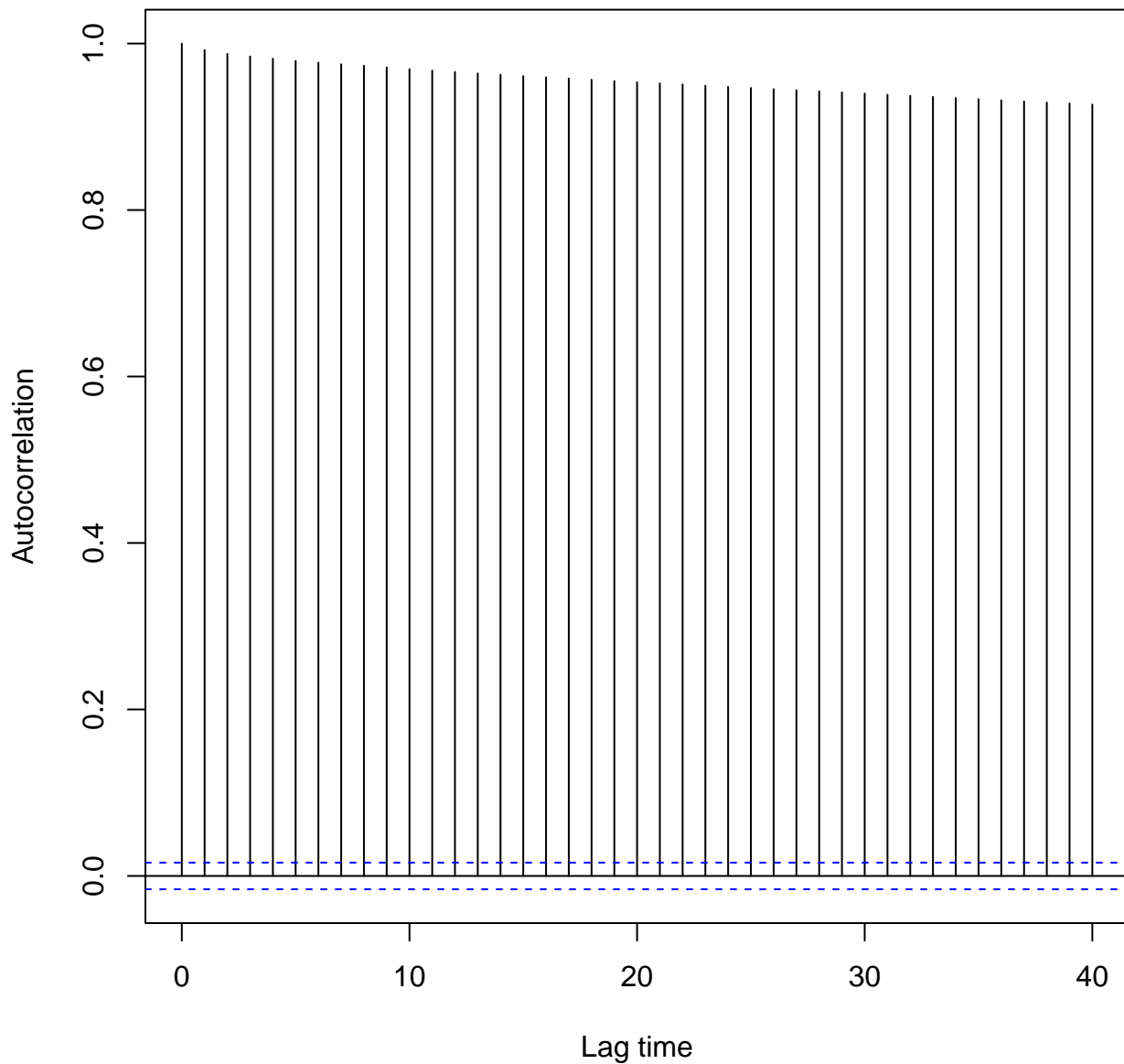


## Mutation P CCC Mixture: 2

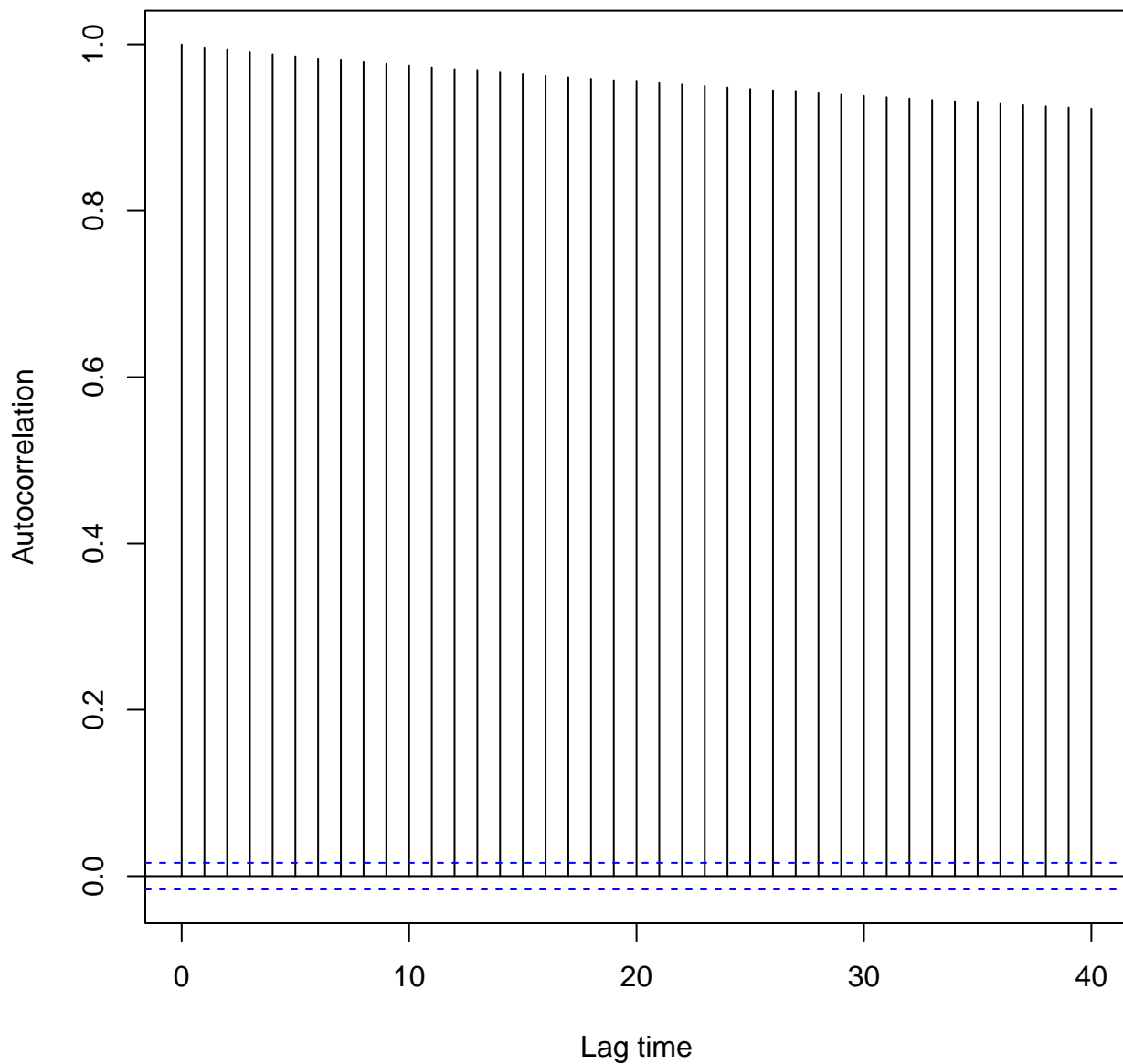




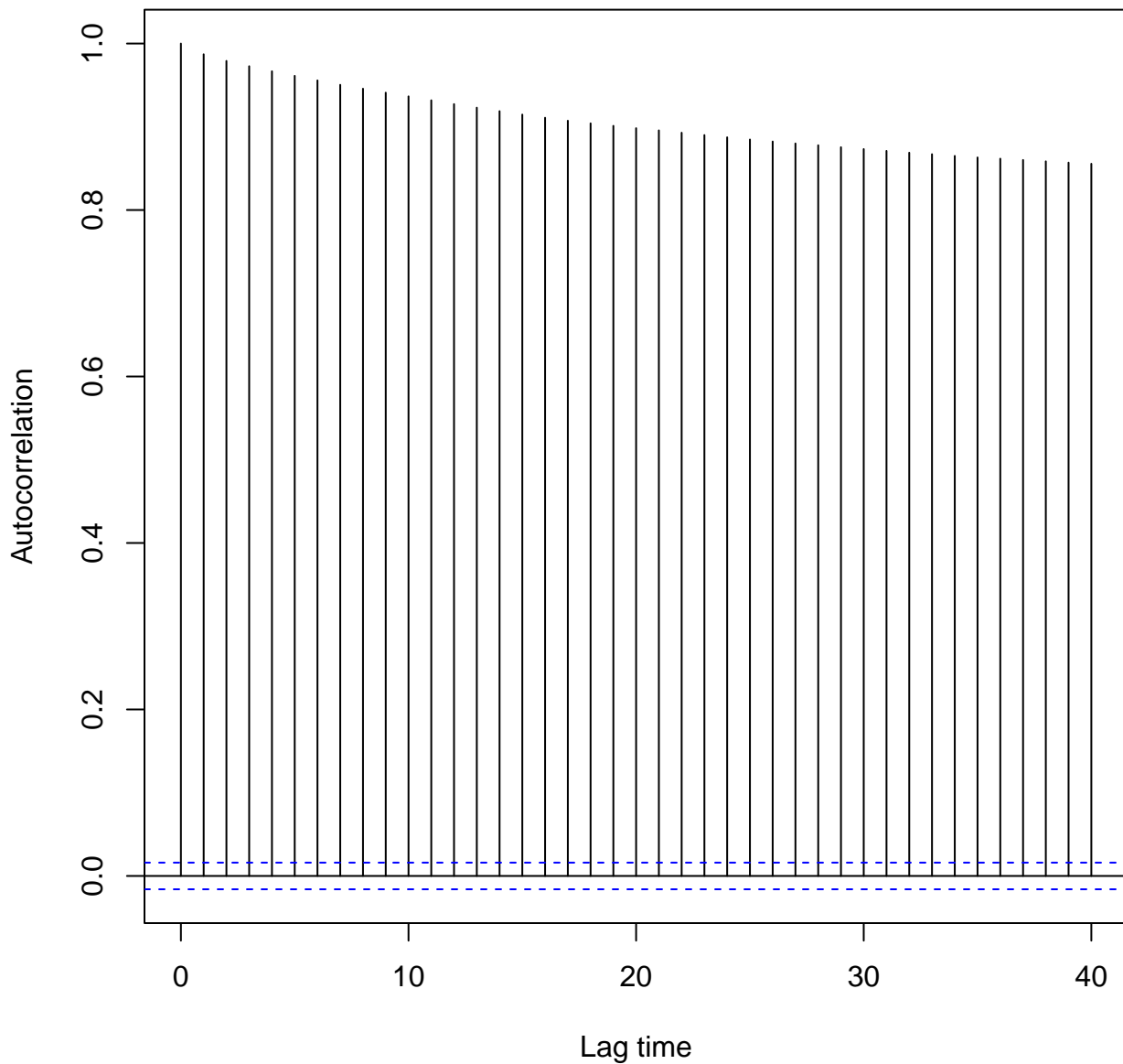
# Mutation P CCG Mixture: 1



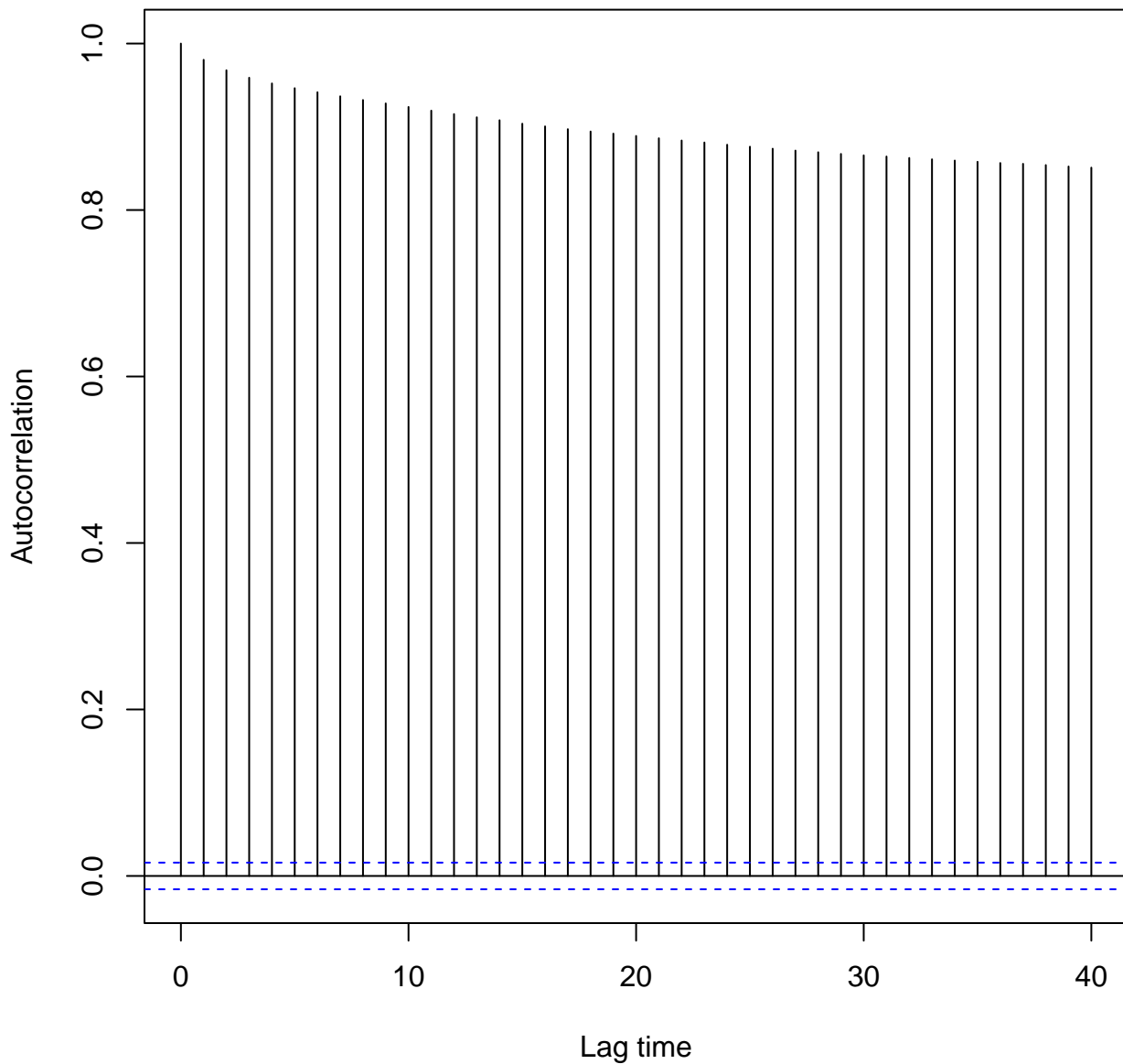
## Mutation P CCG Mixture: 2



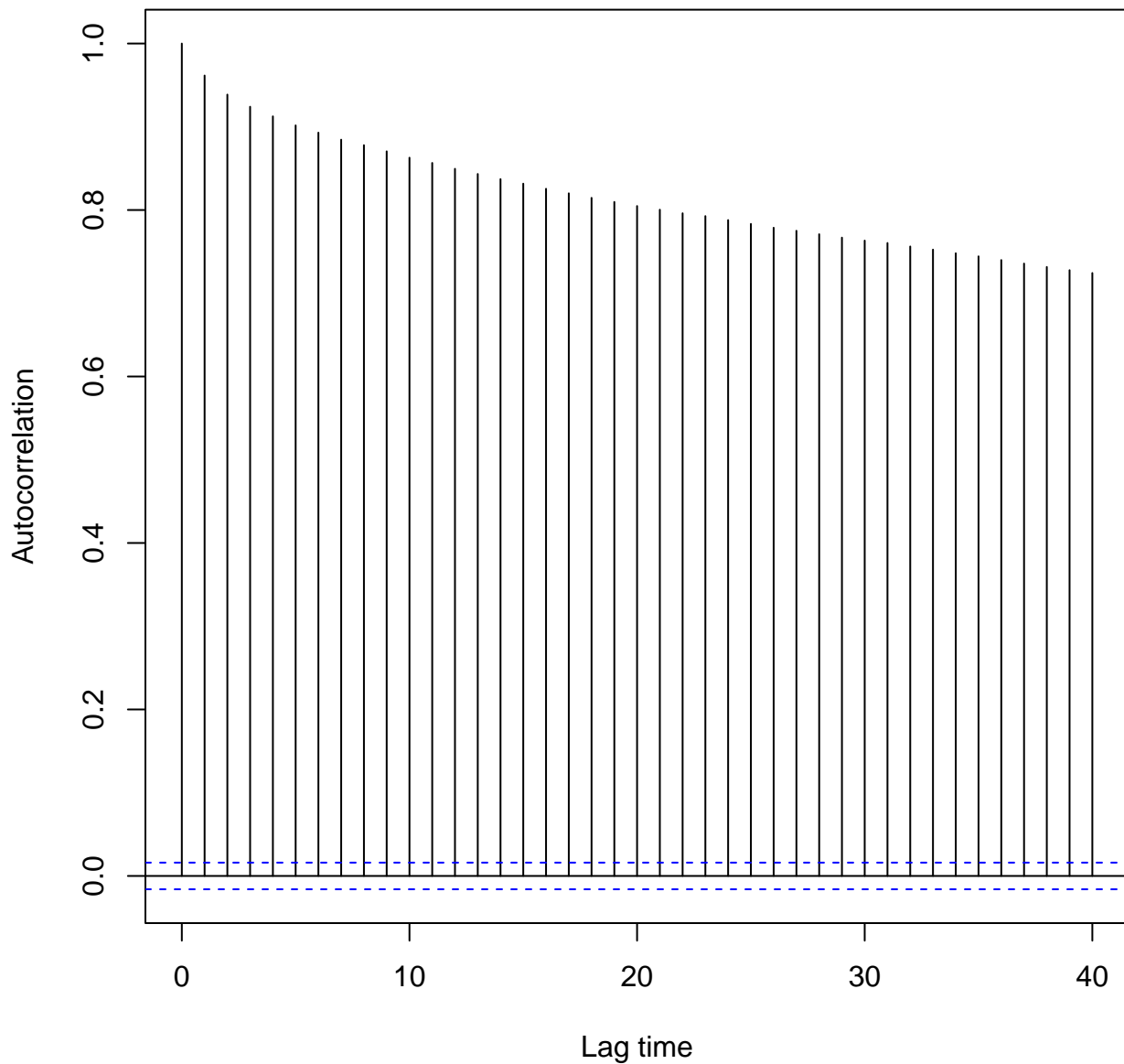
# Mutation Q CAA Mixture: 1



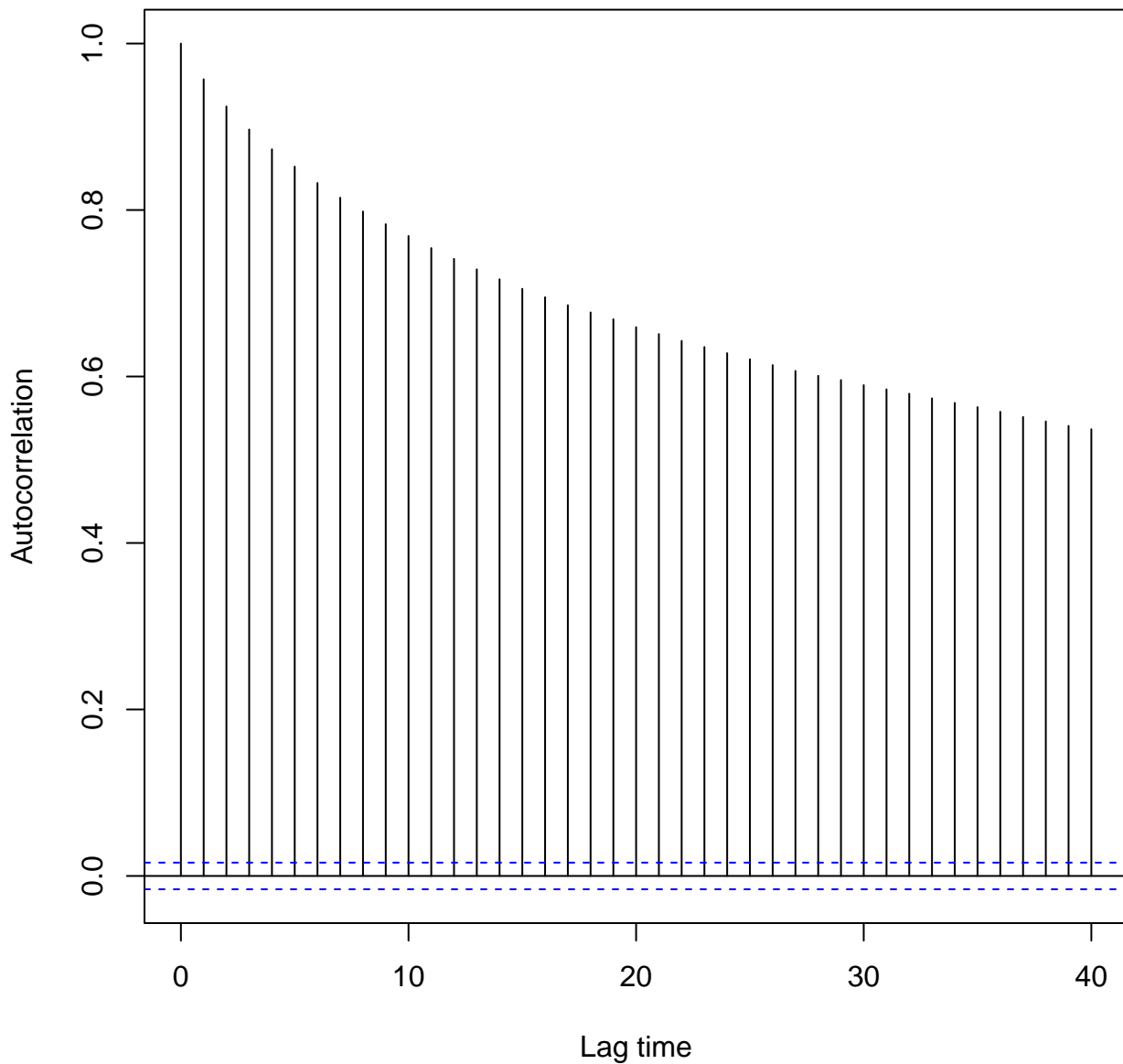
## Mutation Q CAA Mixture: 2



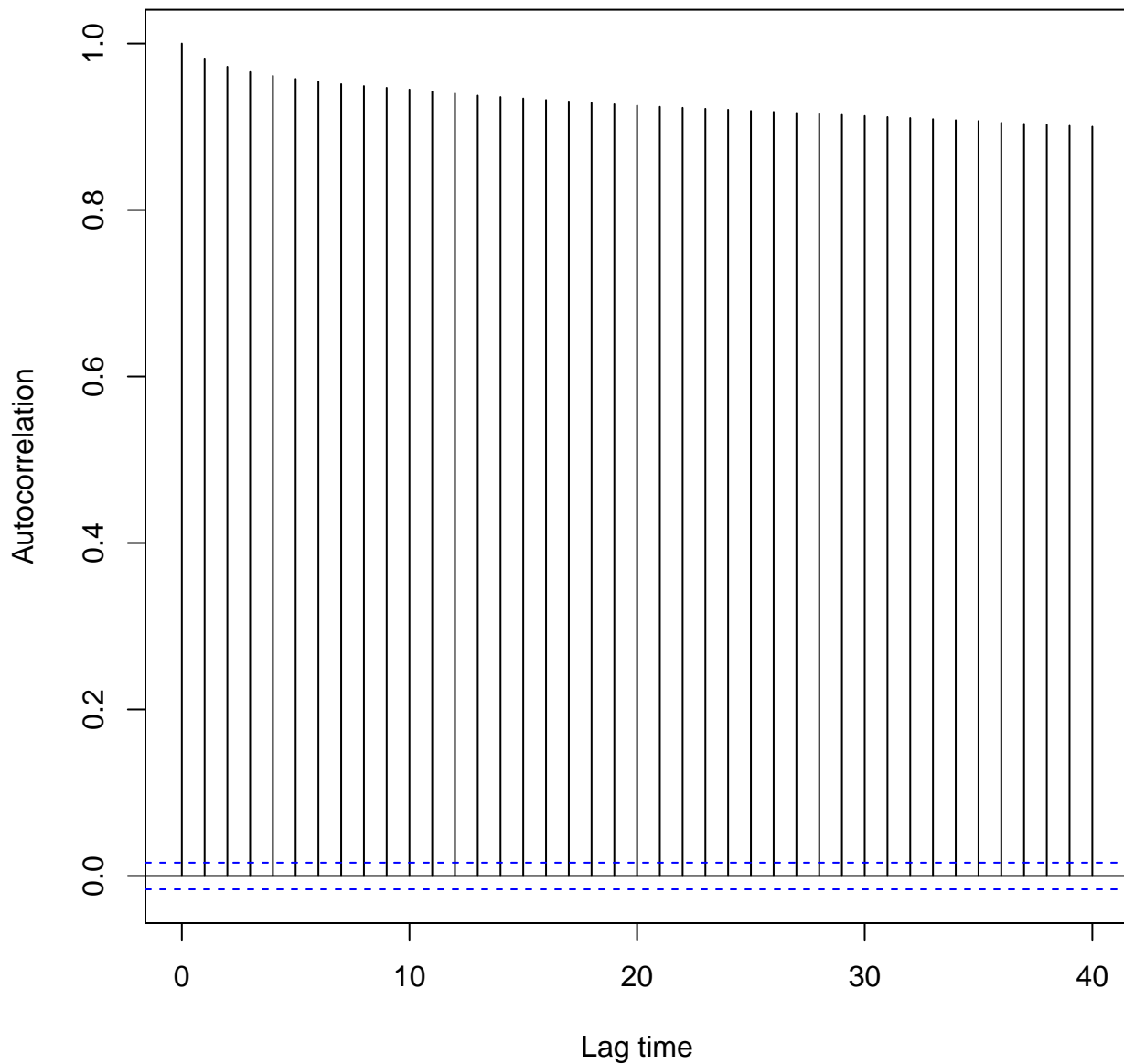
# Mutation R AGA Mixture: 1



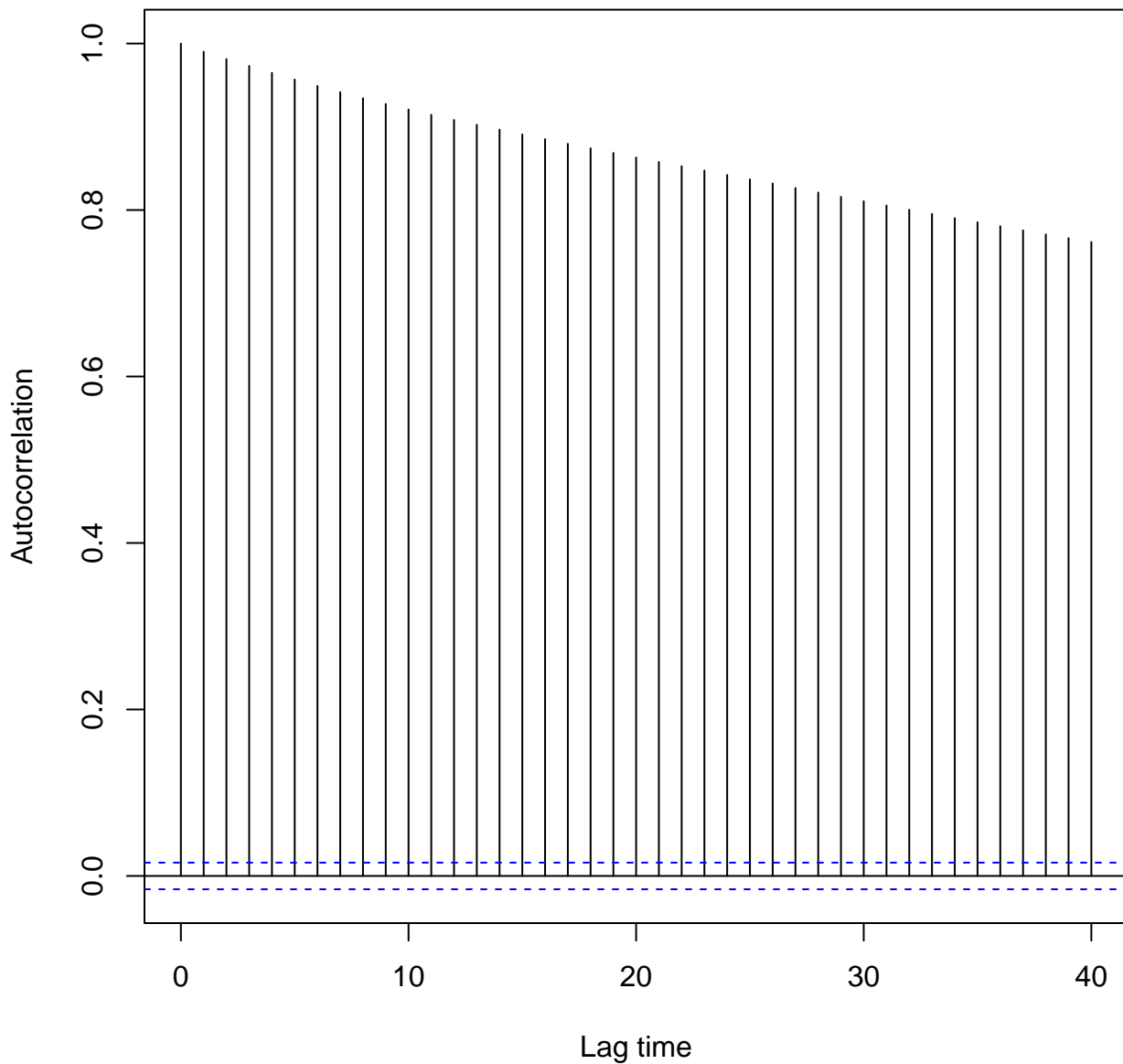
## Mutation R AGA Mixture: 2



# Mutation R AGG Mixture: 1

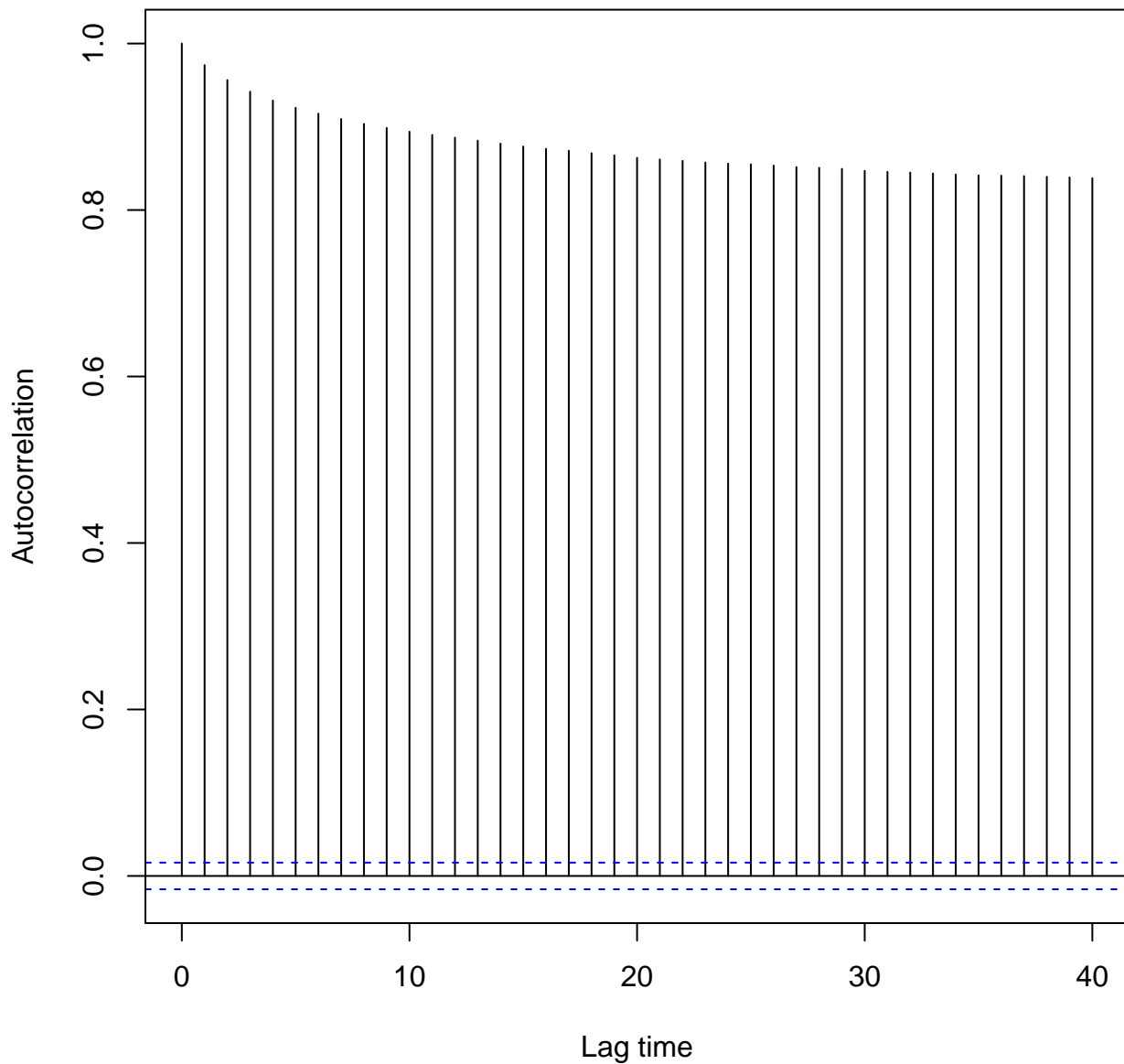


## Mutation R AGG Mixture: 2

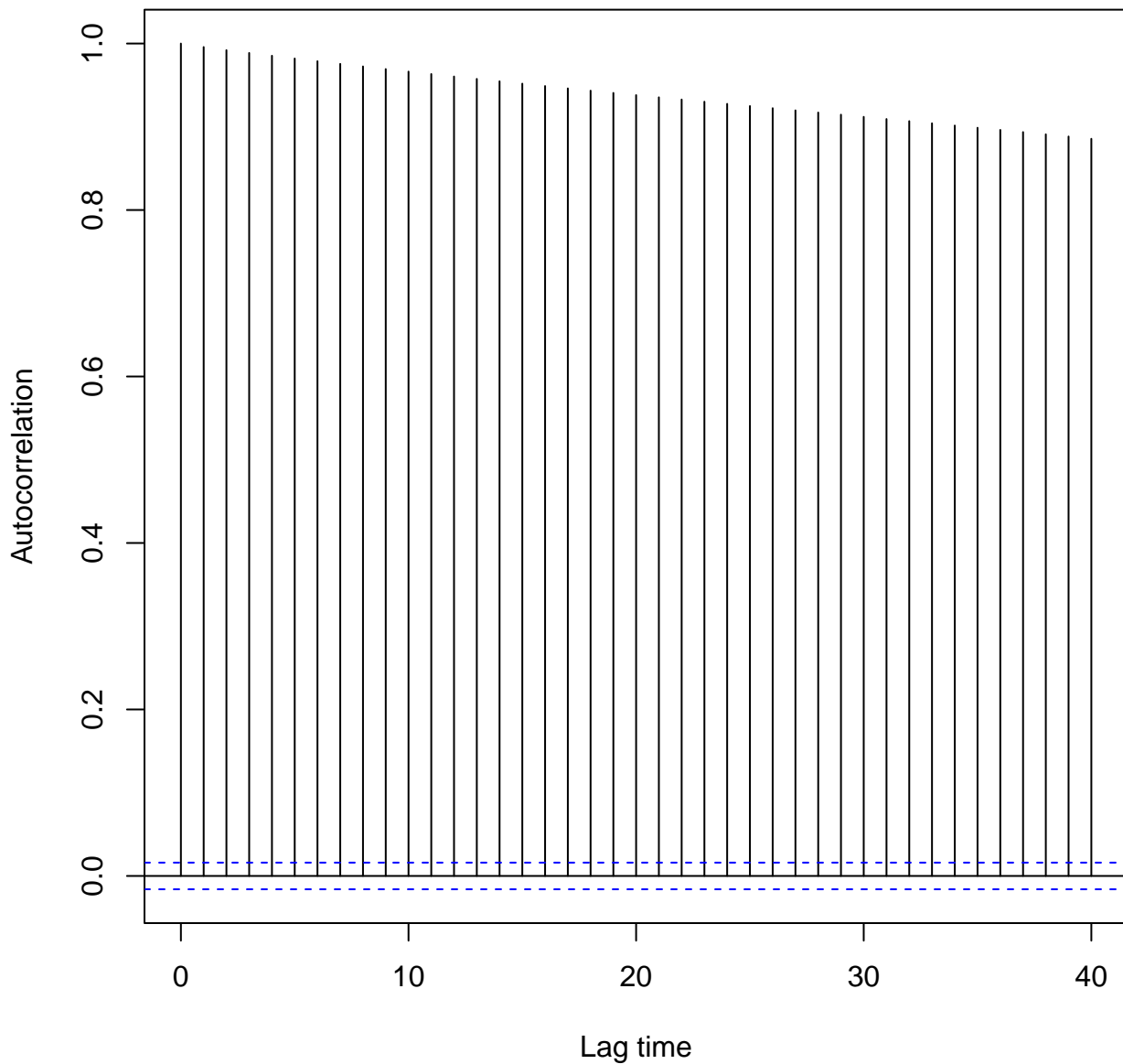




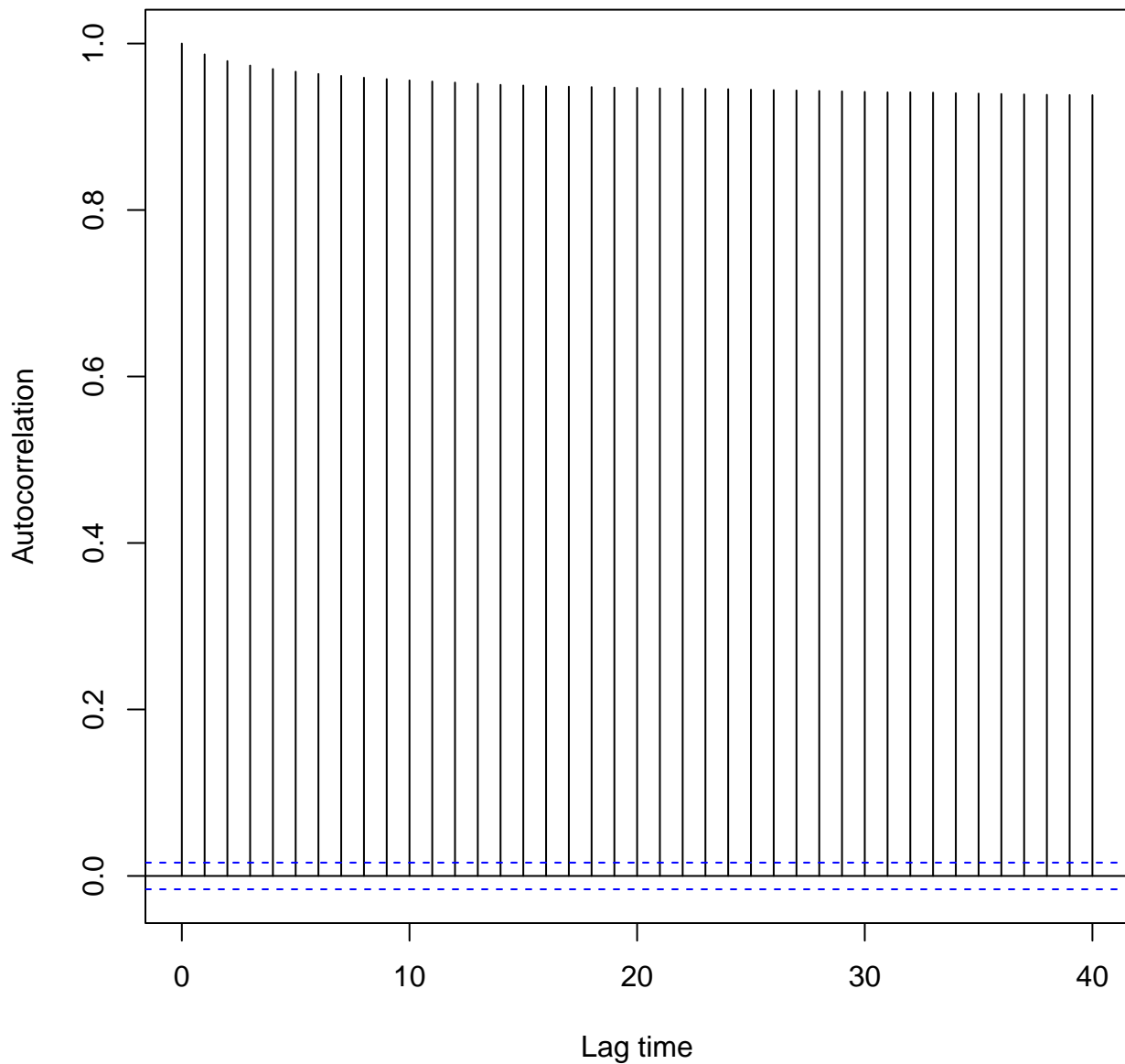
# Mutation R CGA Mixture: 1



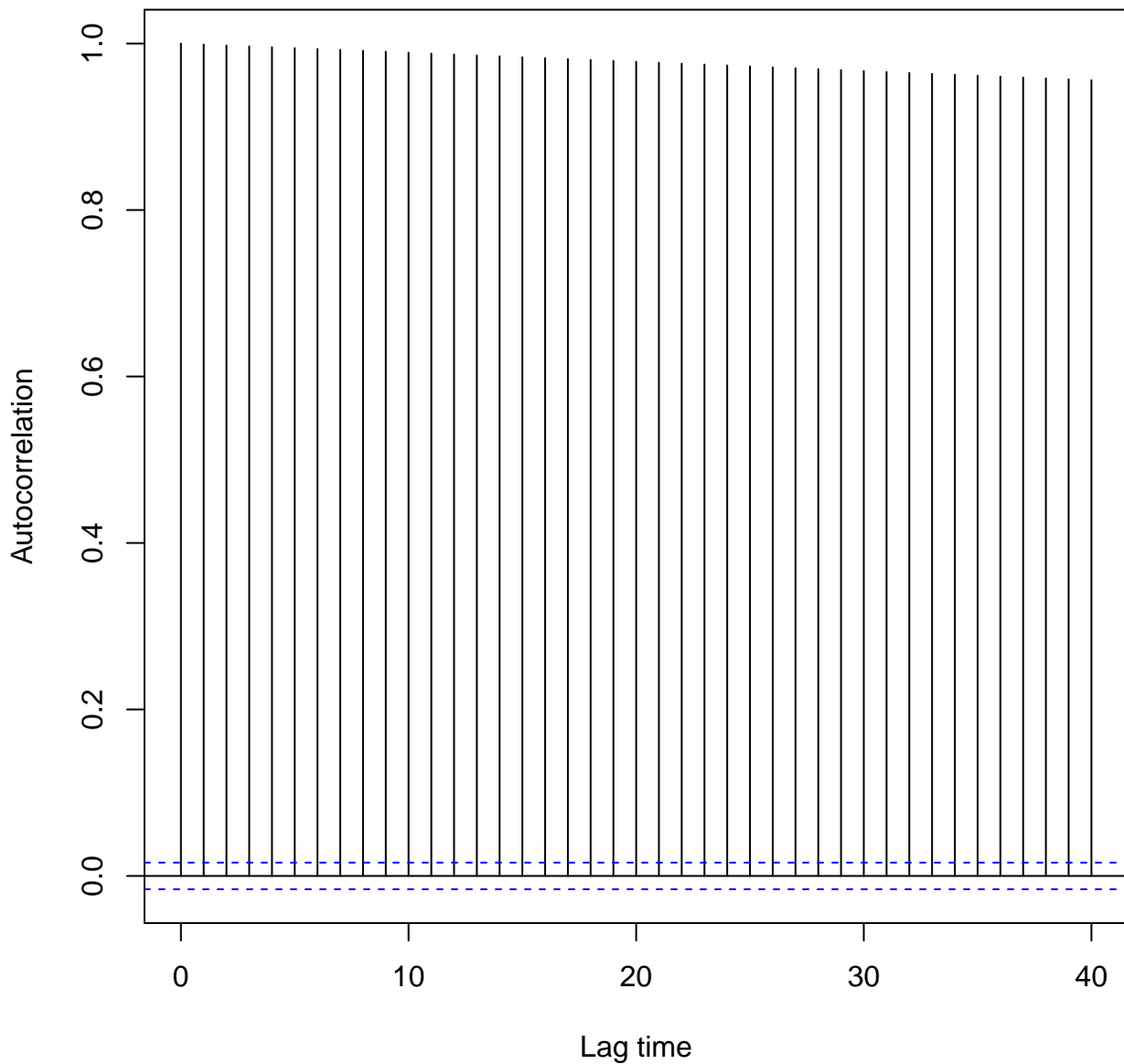
## Mutation R CGA Mixture: 2



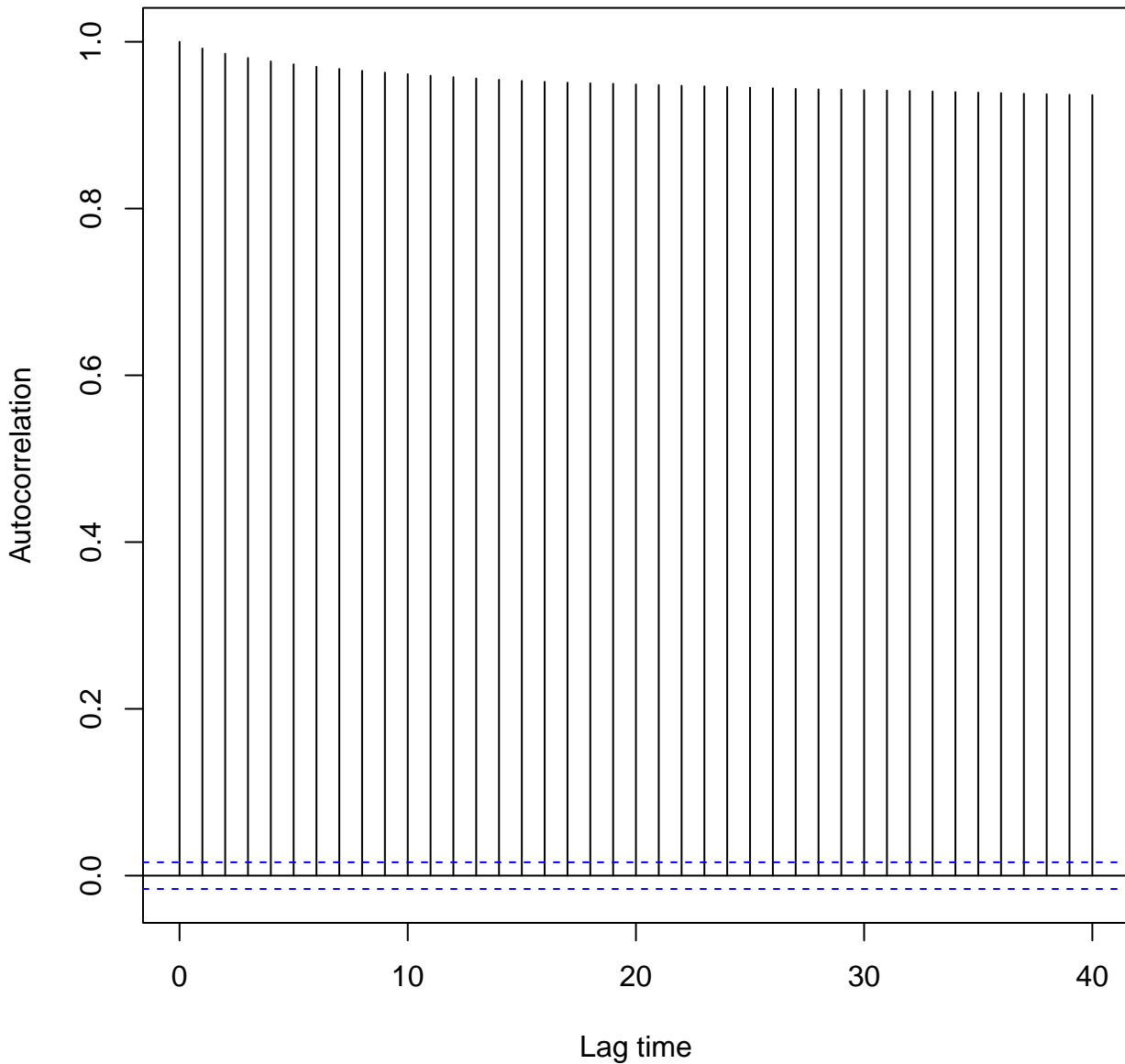
# Mutation R CGC Mixture: 1



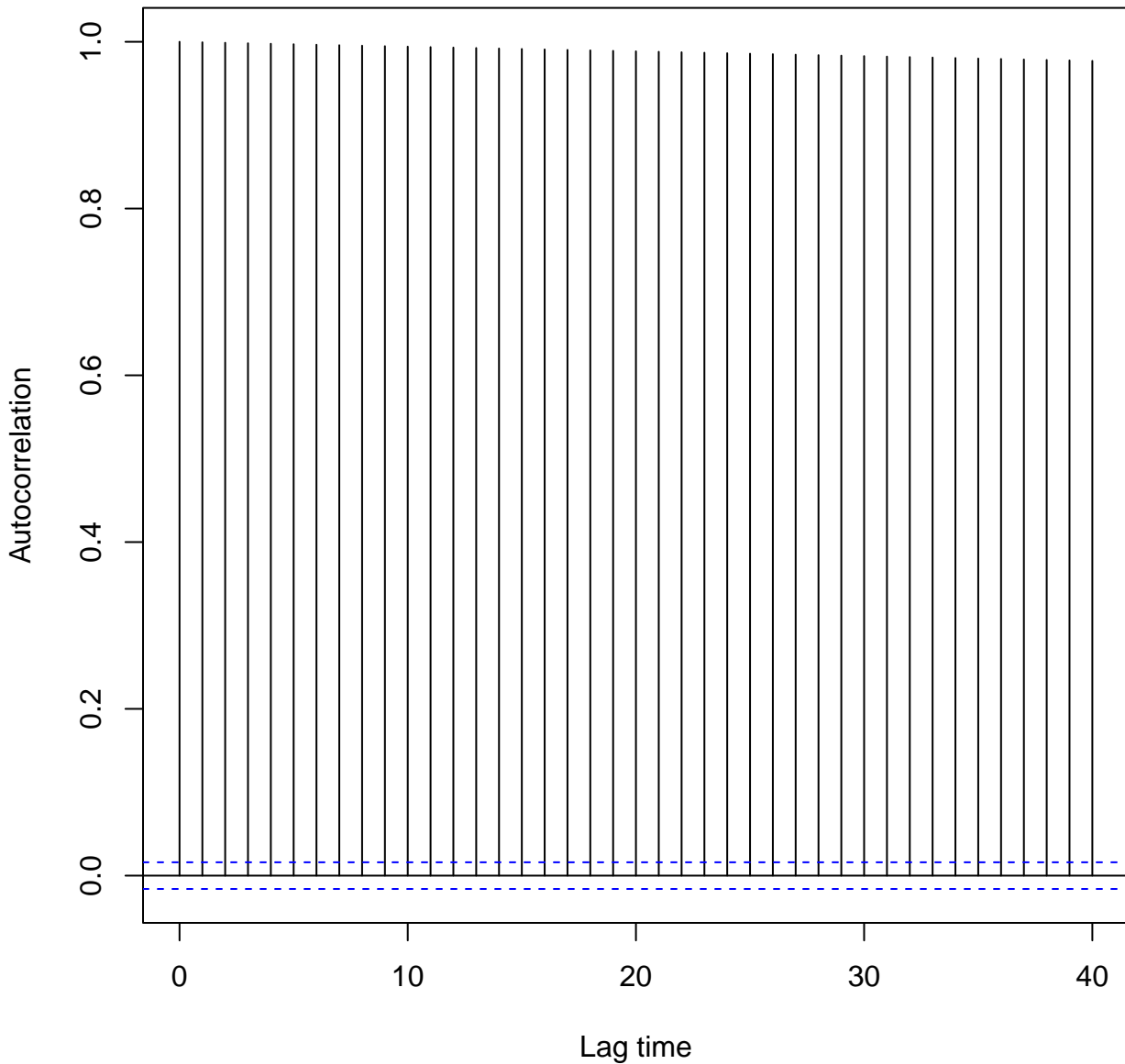
## Mutation R CGC Mixture: 2



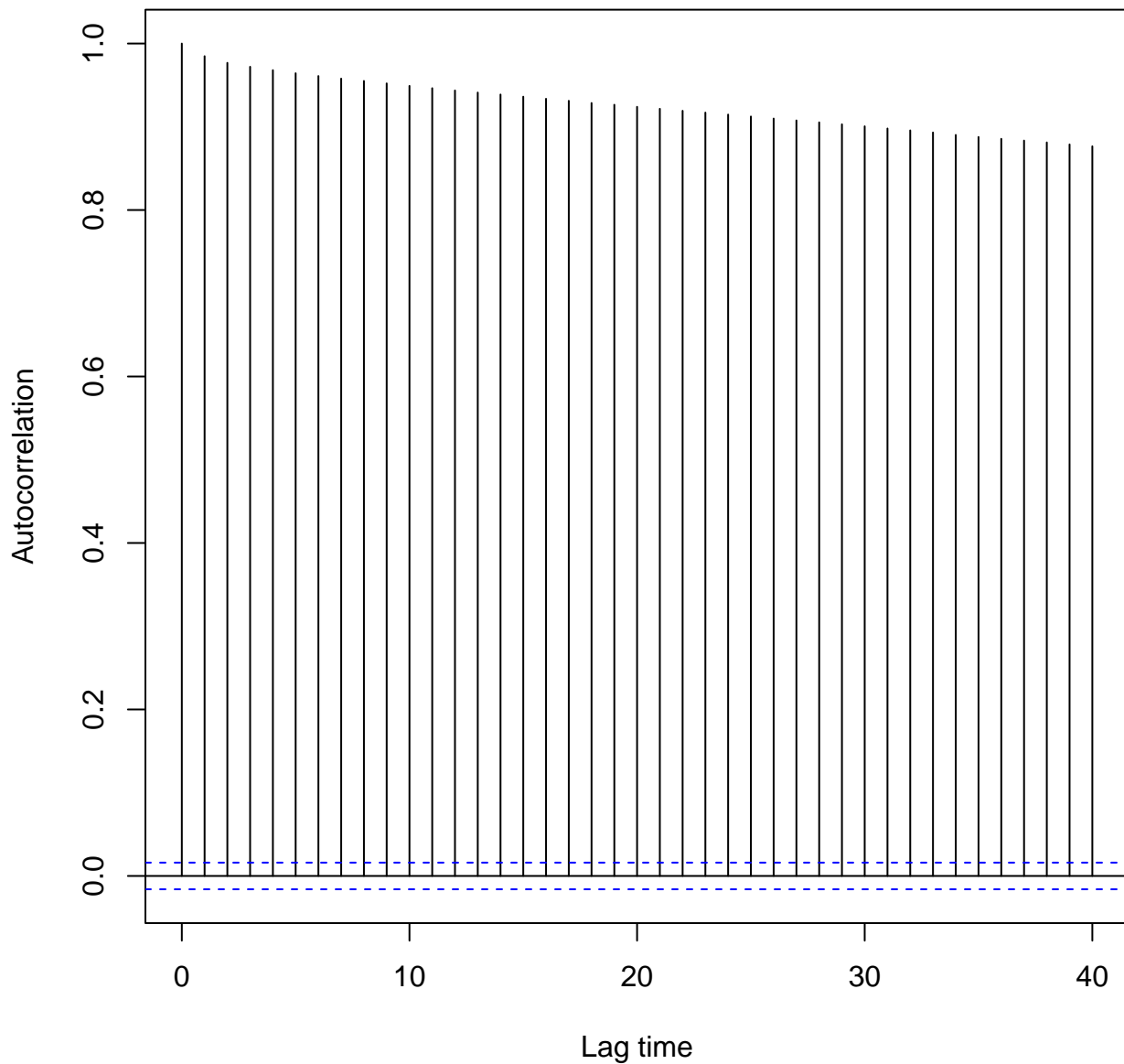
# Mutation R CGG Mixture: 1



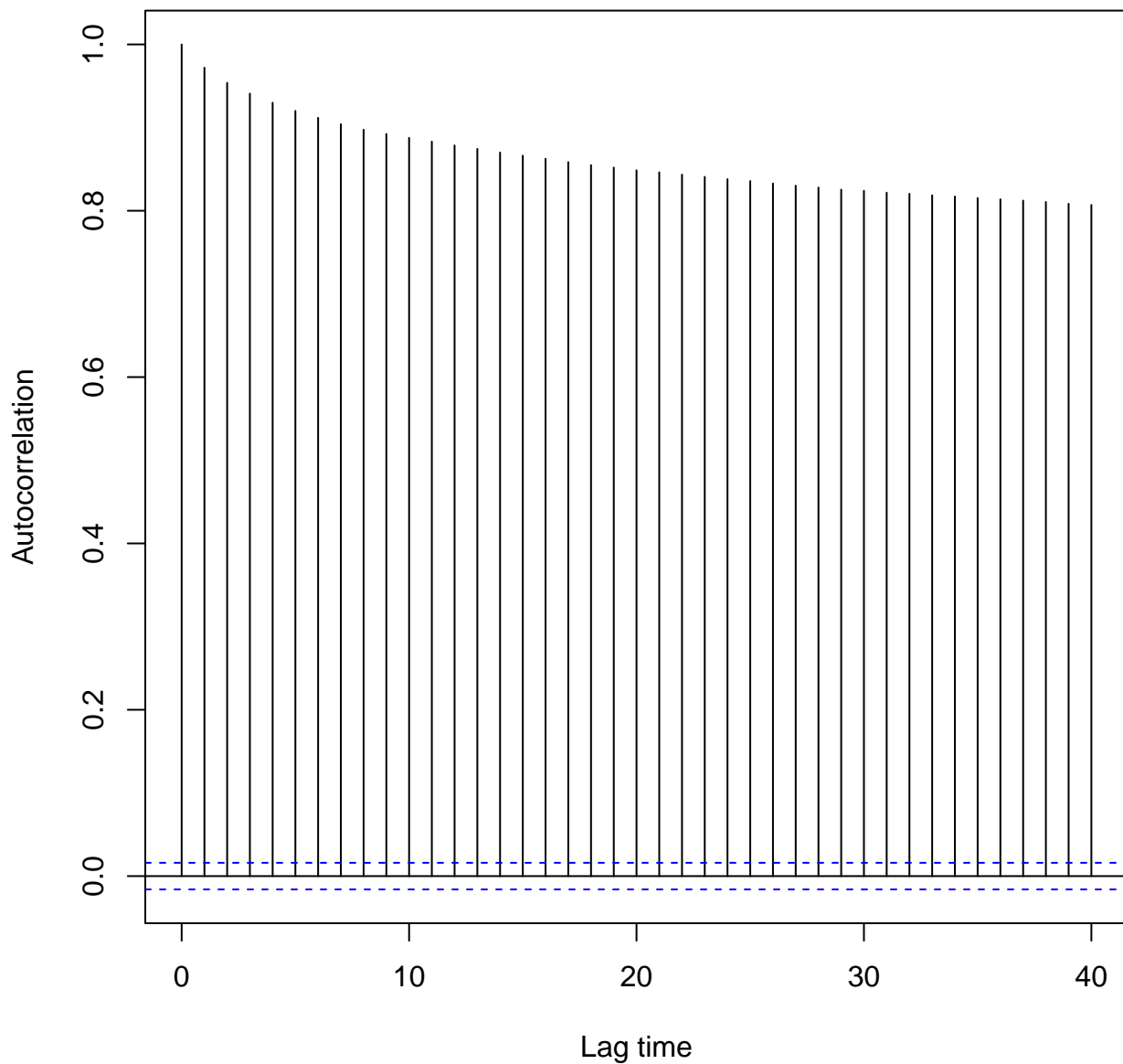
## Mutation R CGG Mixture: 2



# Mutation S TCA Mixture: 1

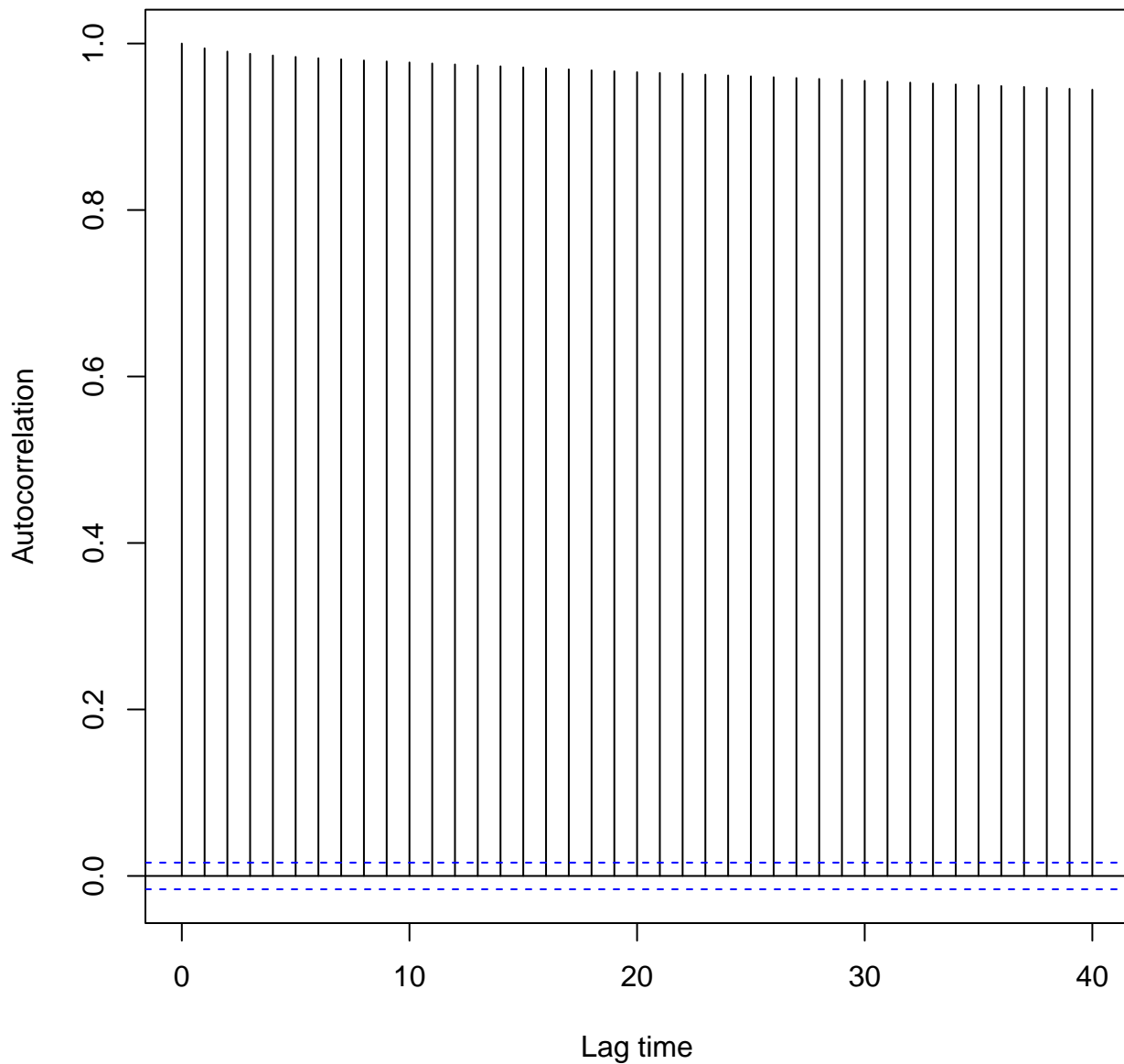


## Mutation S TCA Mixture: 2

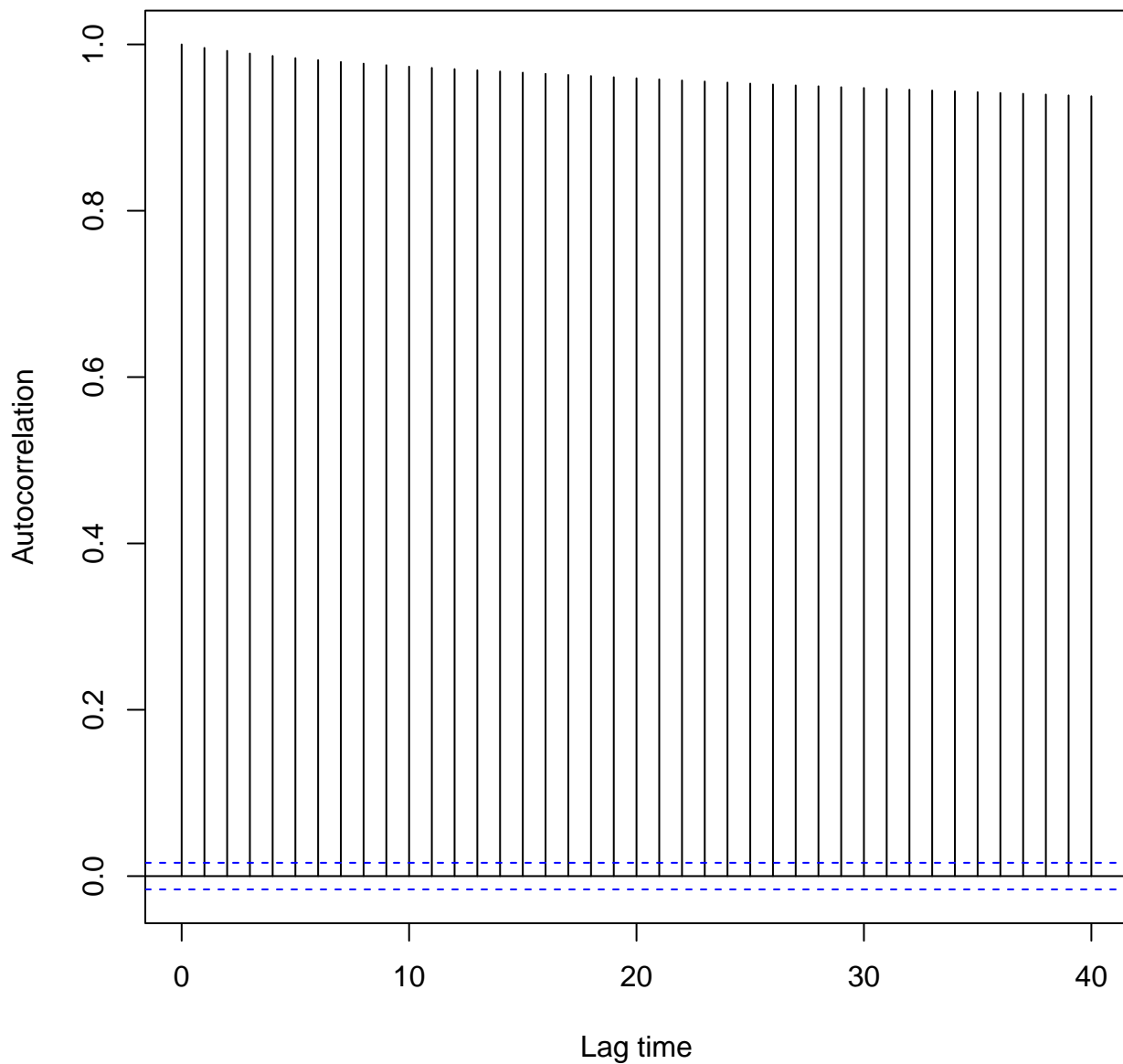




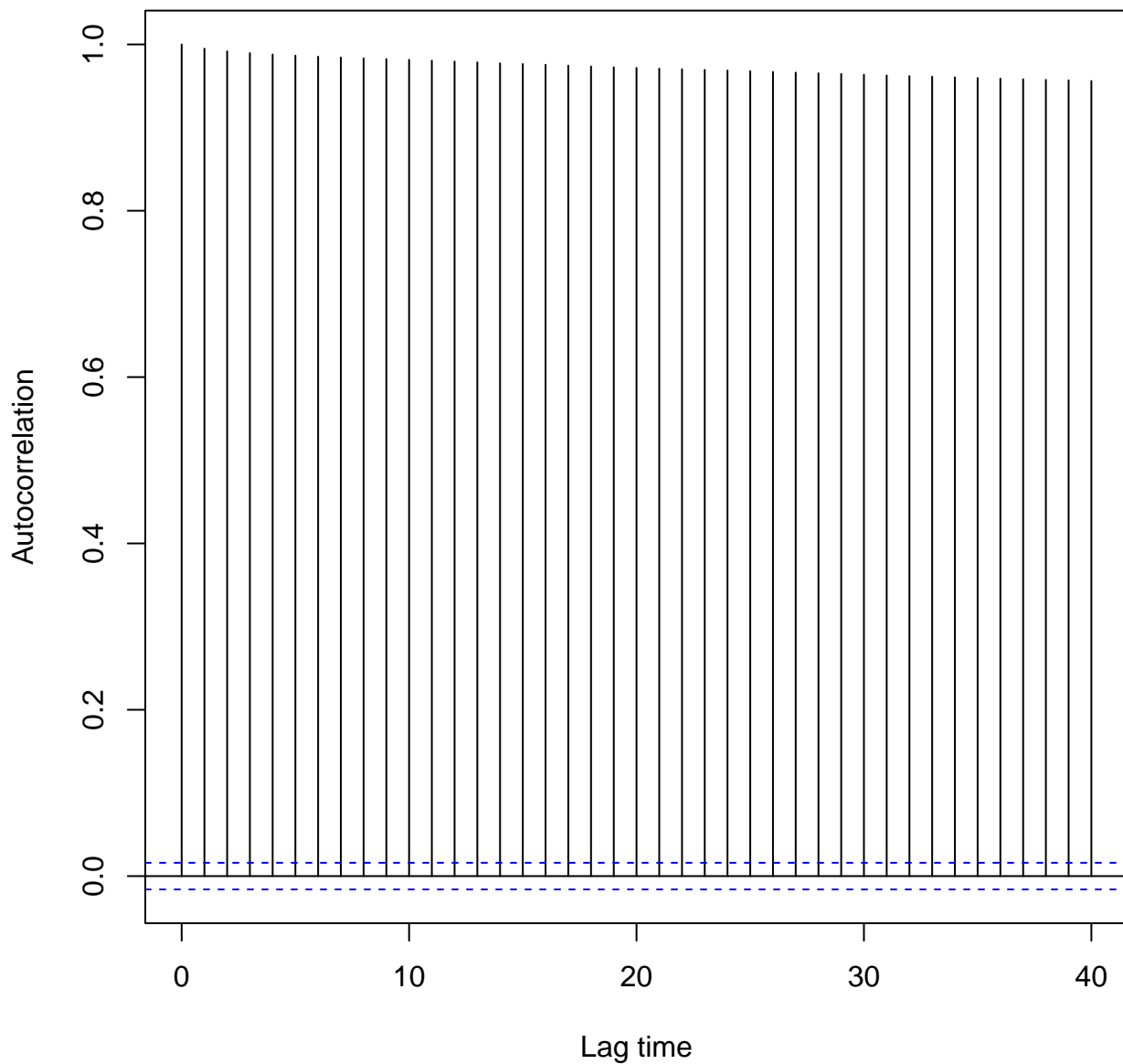
# Mutation S TCC Mixture: 1



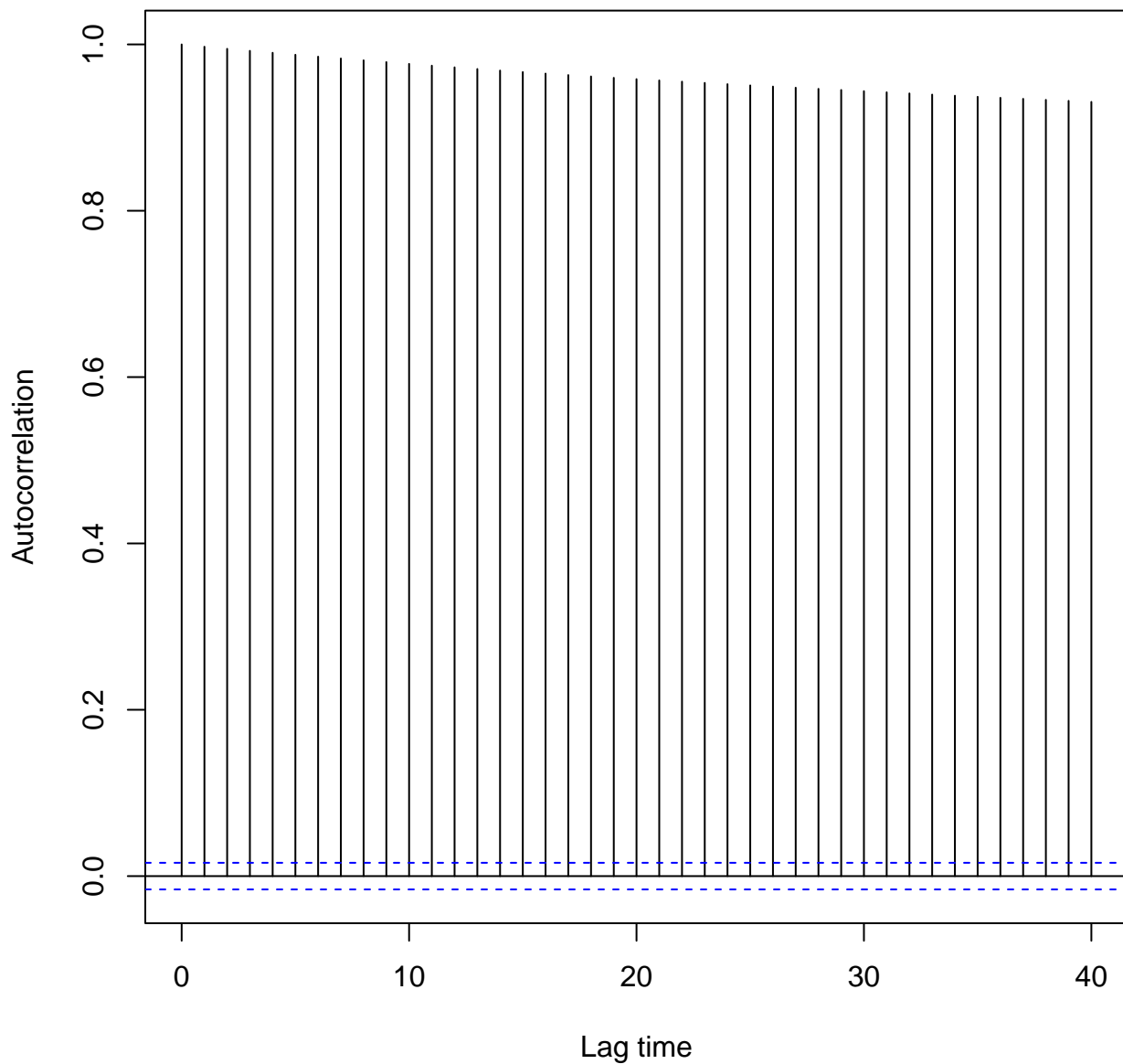
## Mutation S TCC Mixture: 2



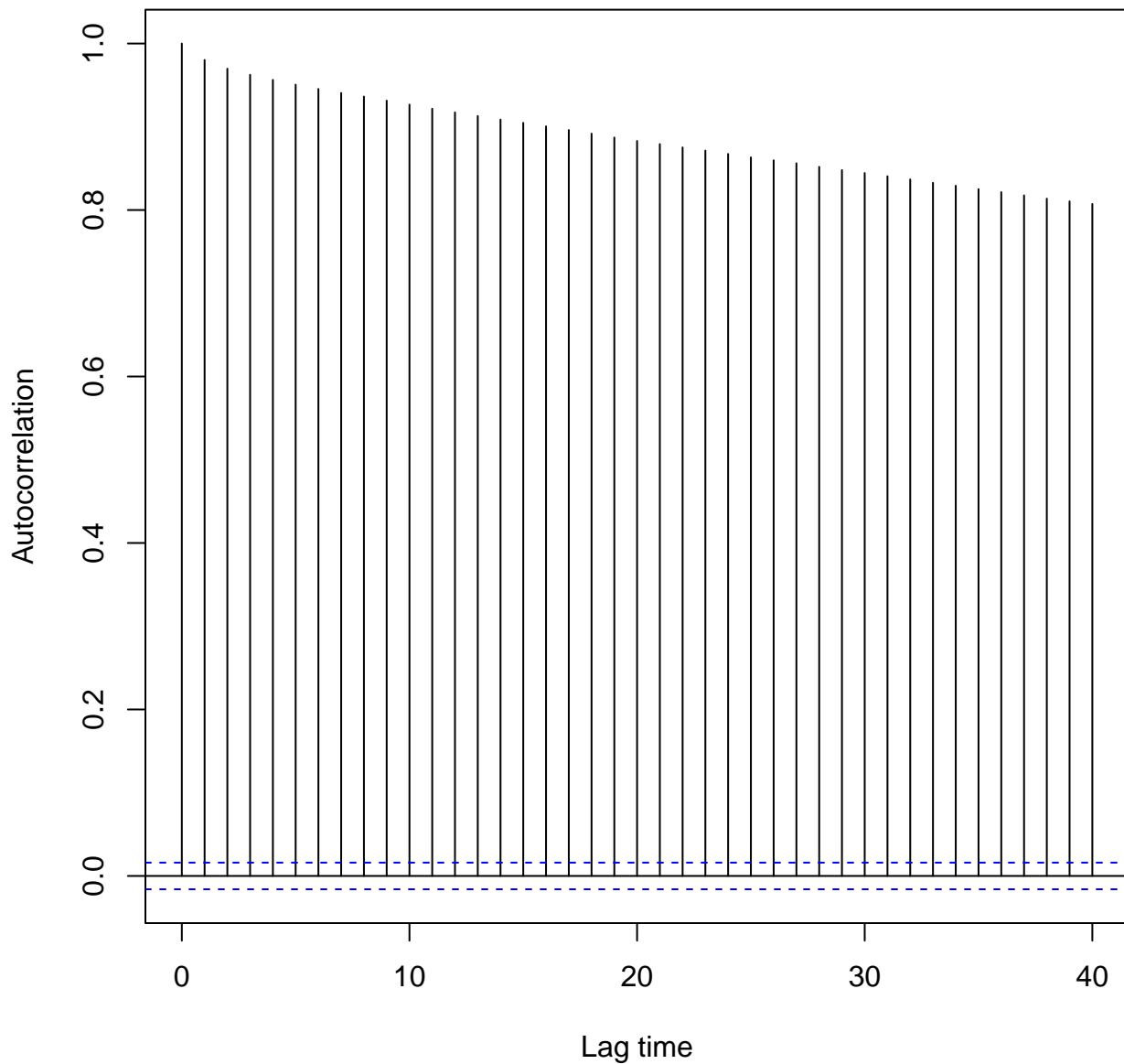
# Mutation S TCG Mixture: 1



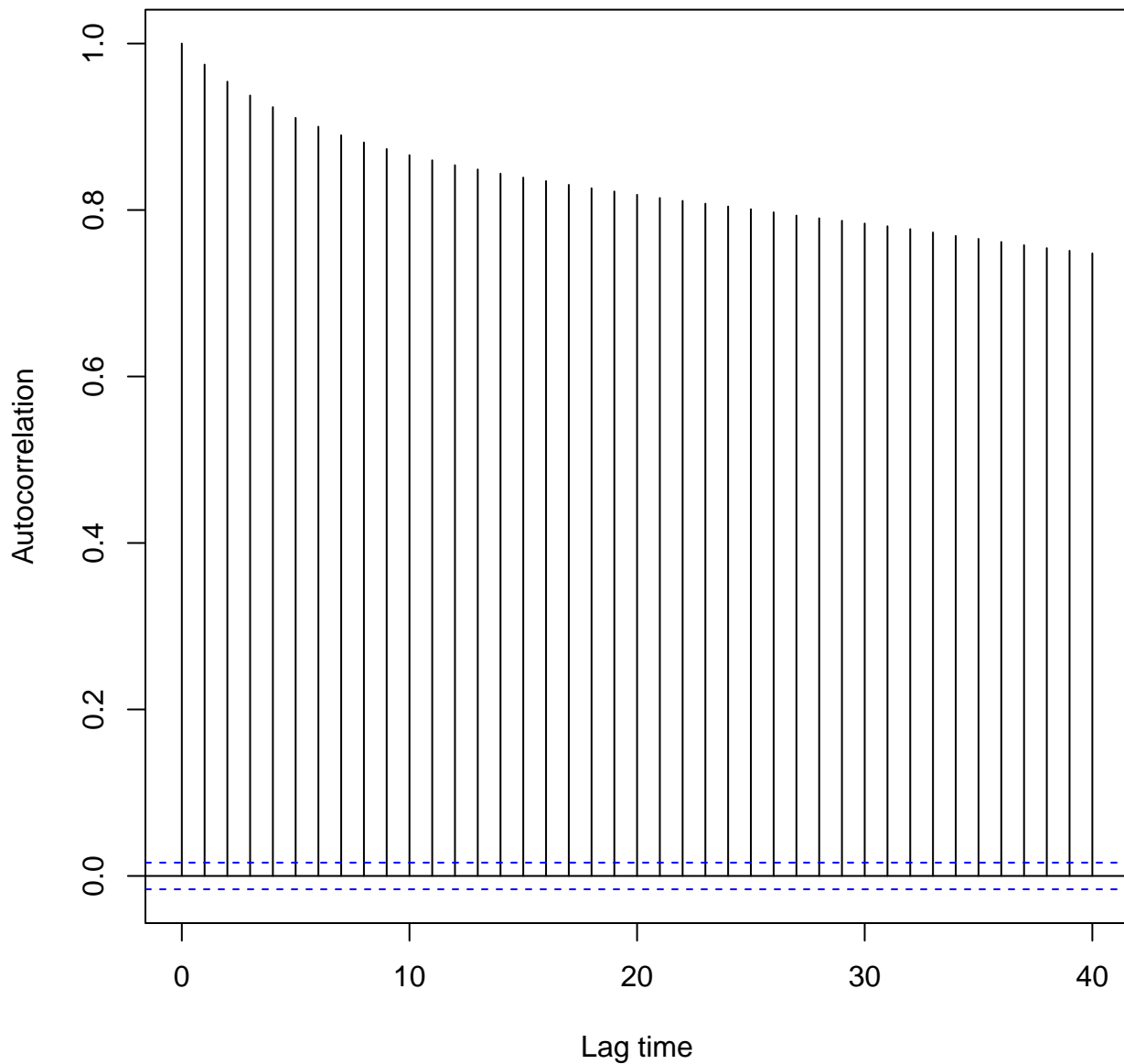
## Mutation S TCG Mixture: 2



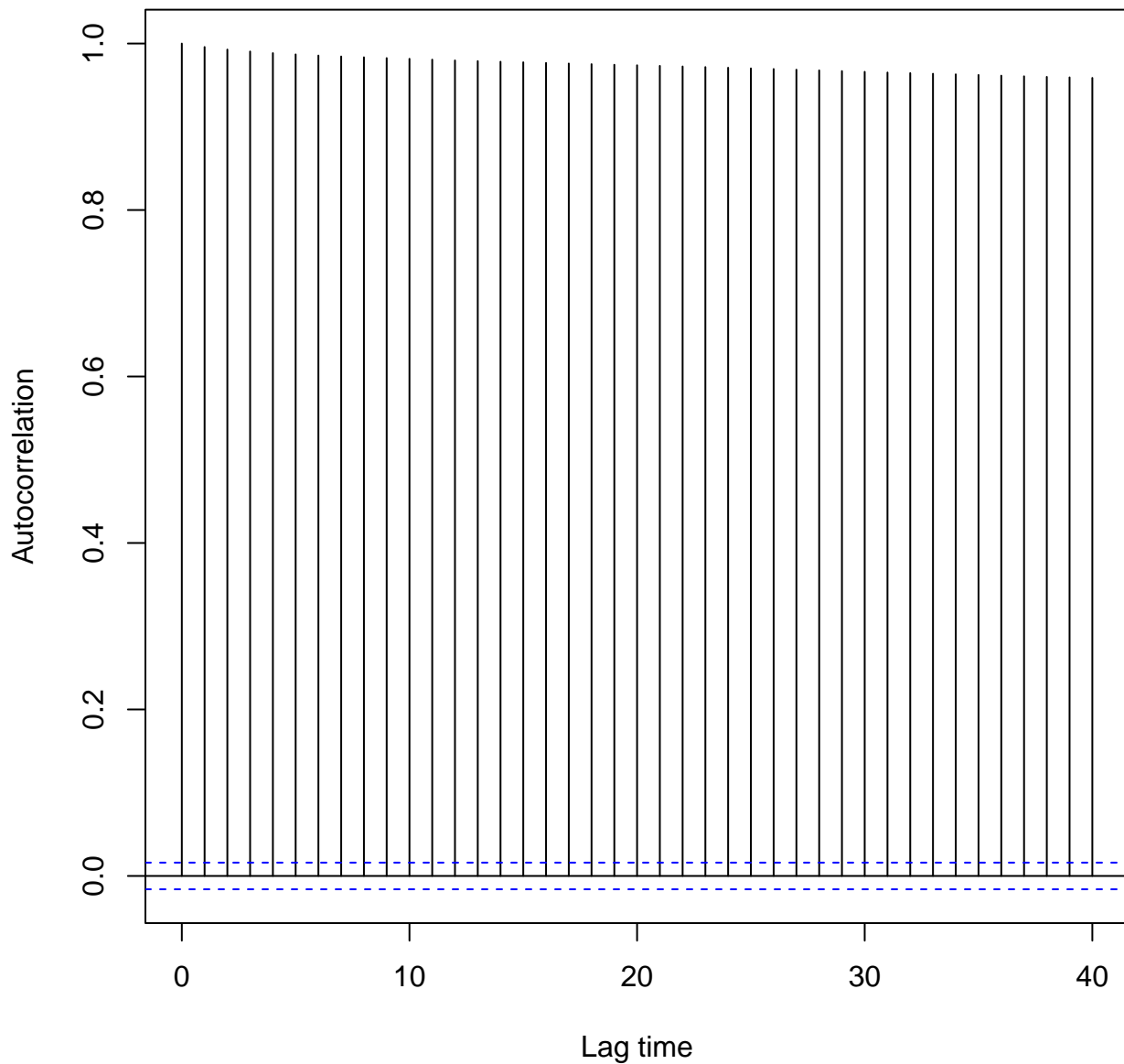
# Mutation T ACA Mixture: 1



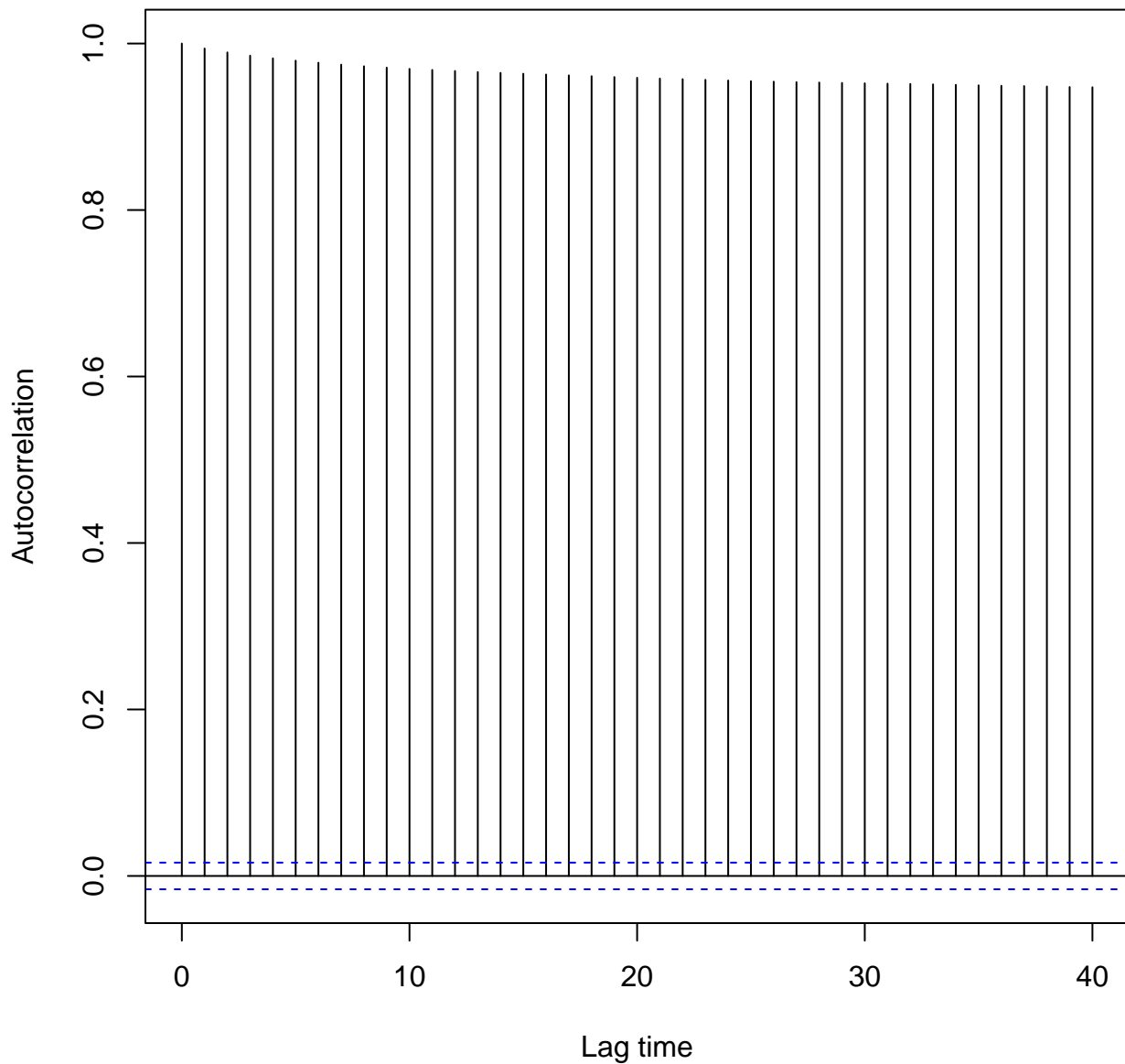
## Mutation T ACA Mixture: 2



# Mutation T ACC Mixture: 1

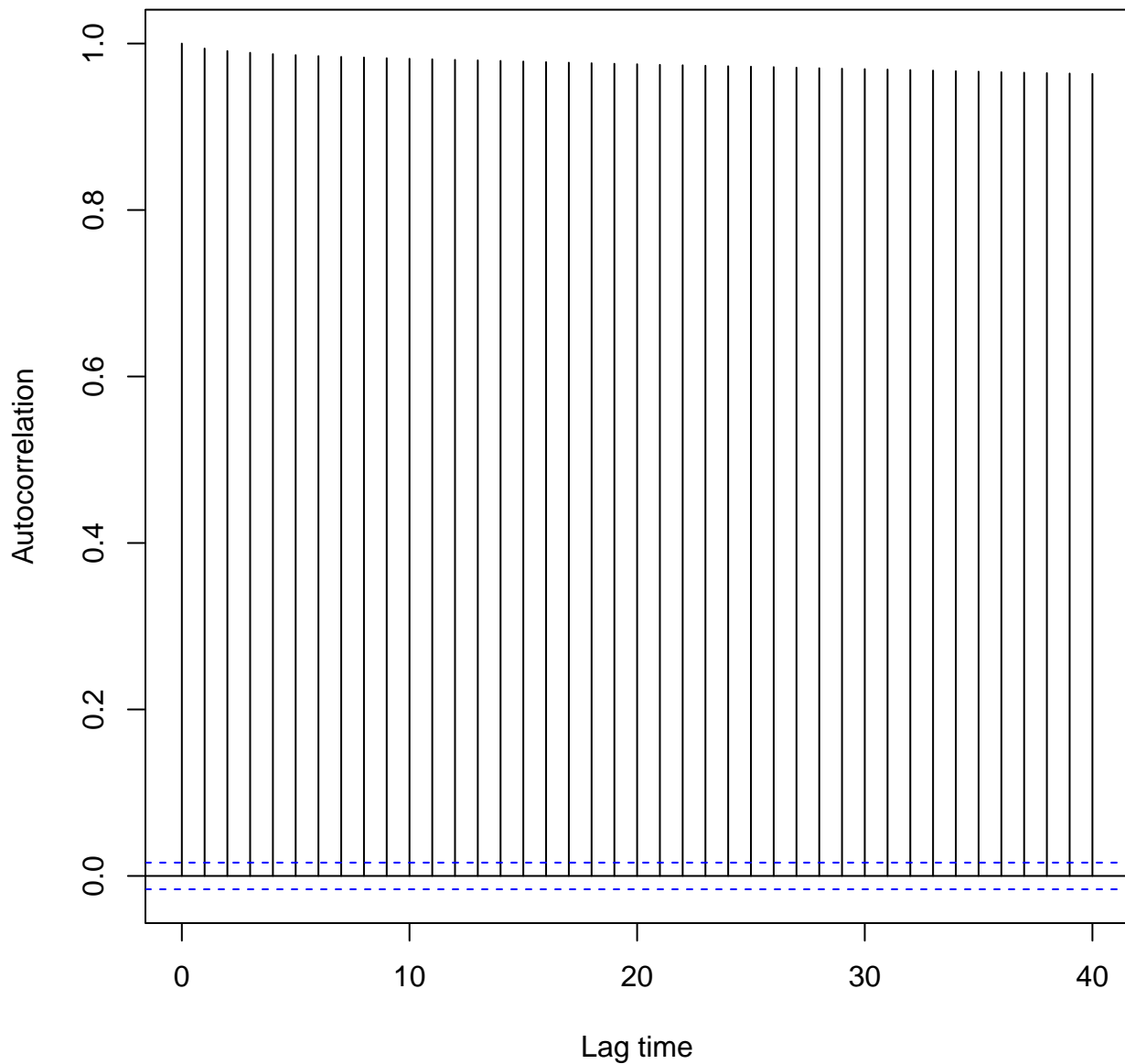


## Mutation T ACC Mixture: 2

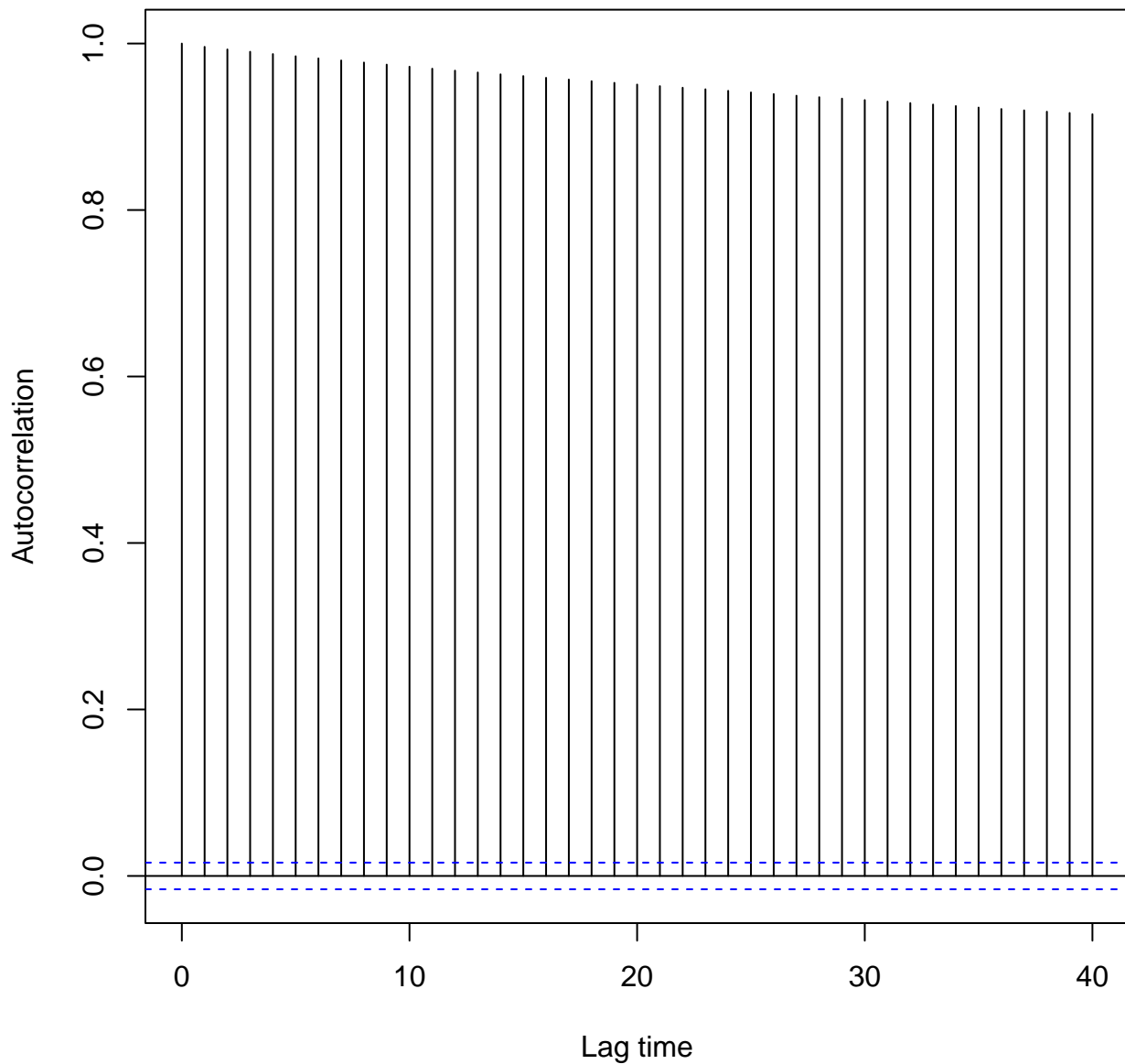




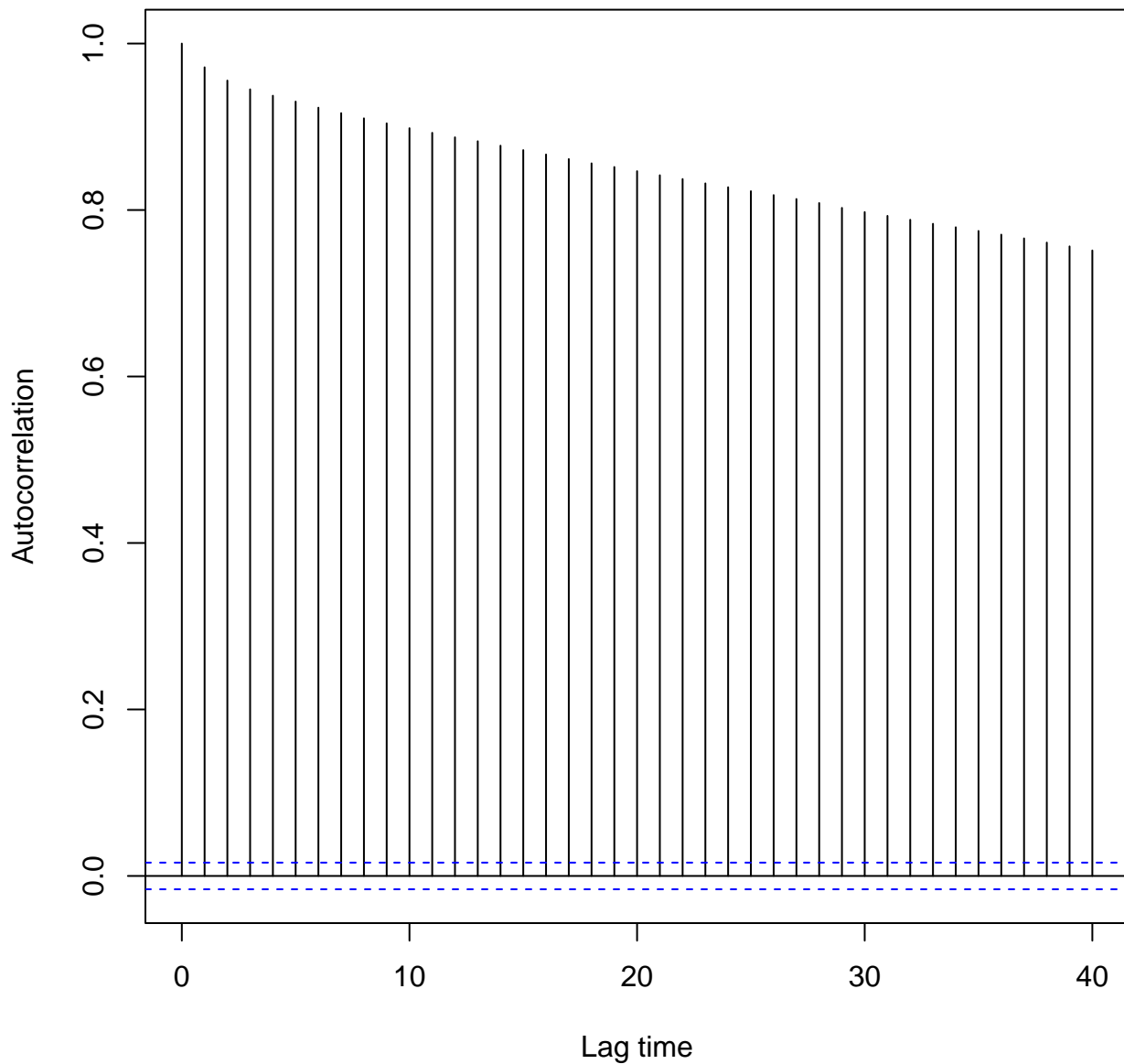
# Mutation T ACG Mixture: 1



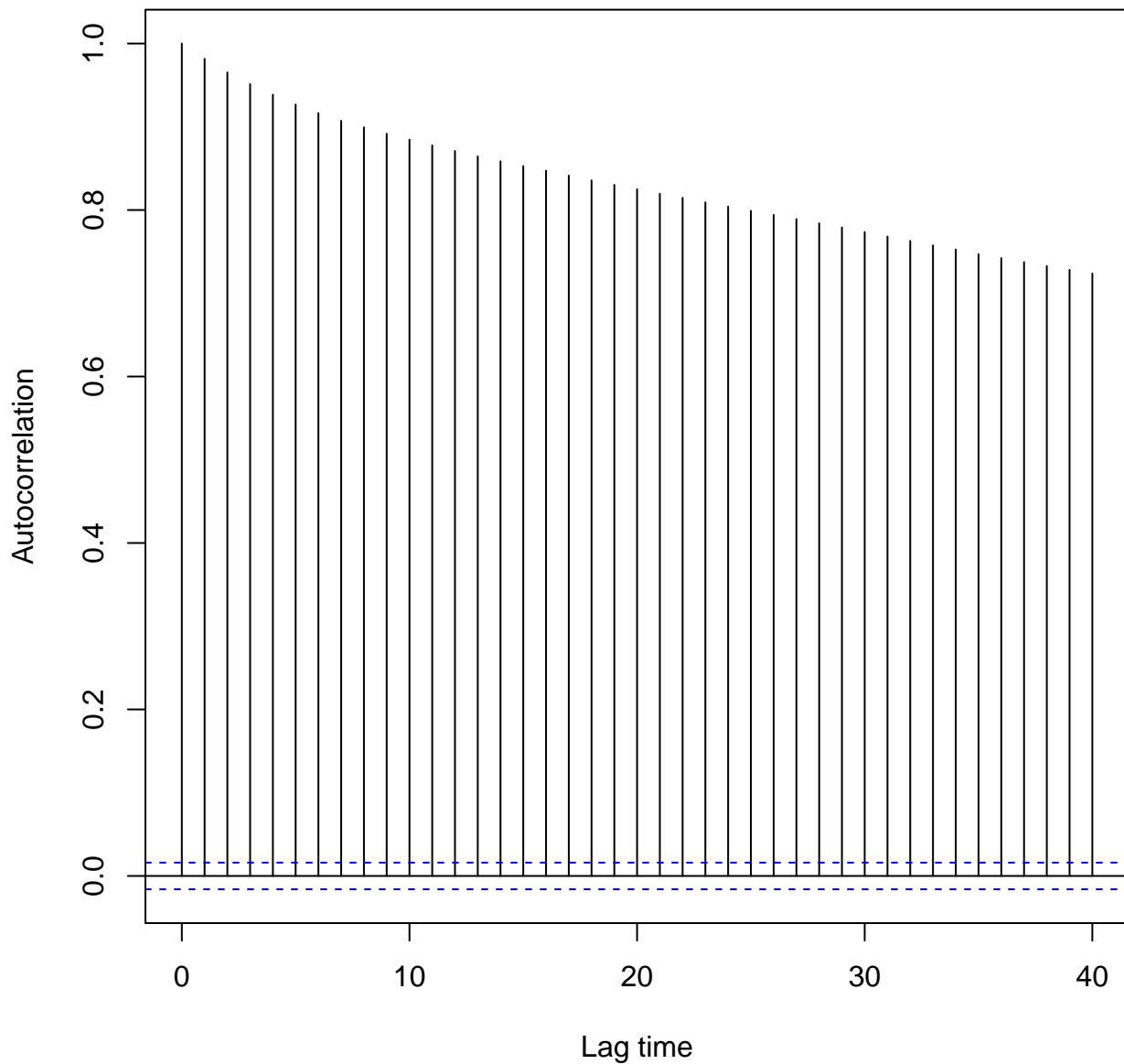
## Mutation T ACG Mixture: 2



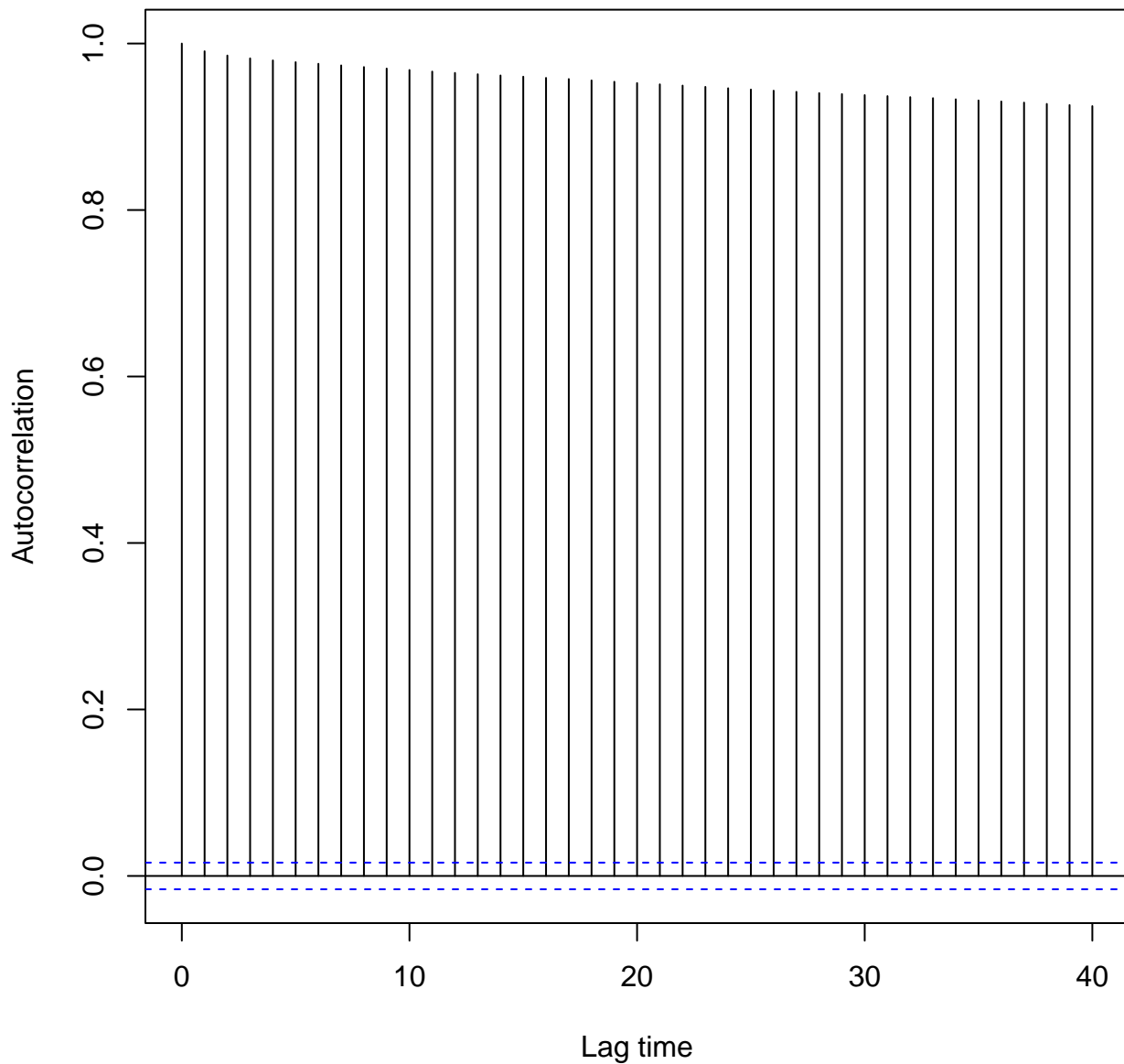
# Mutation V GTA Mixture: 1



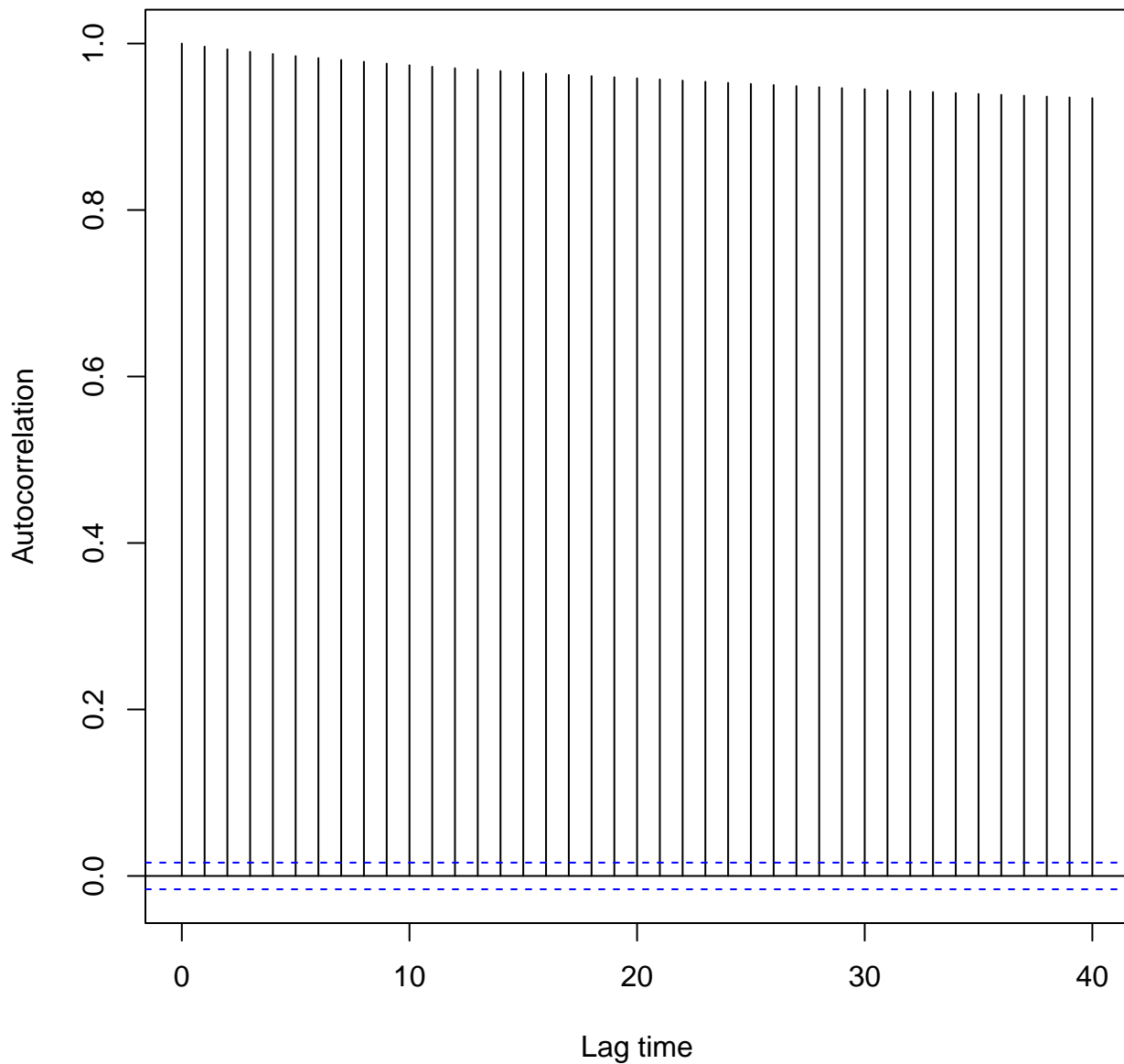
## Mutation V GTA Mixture: 2



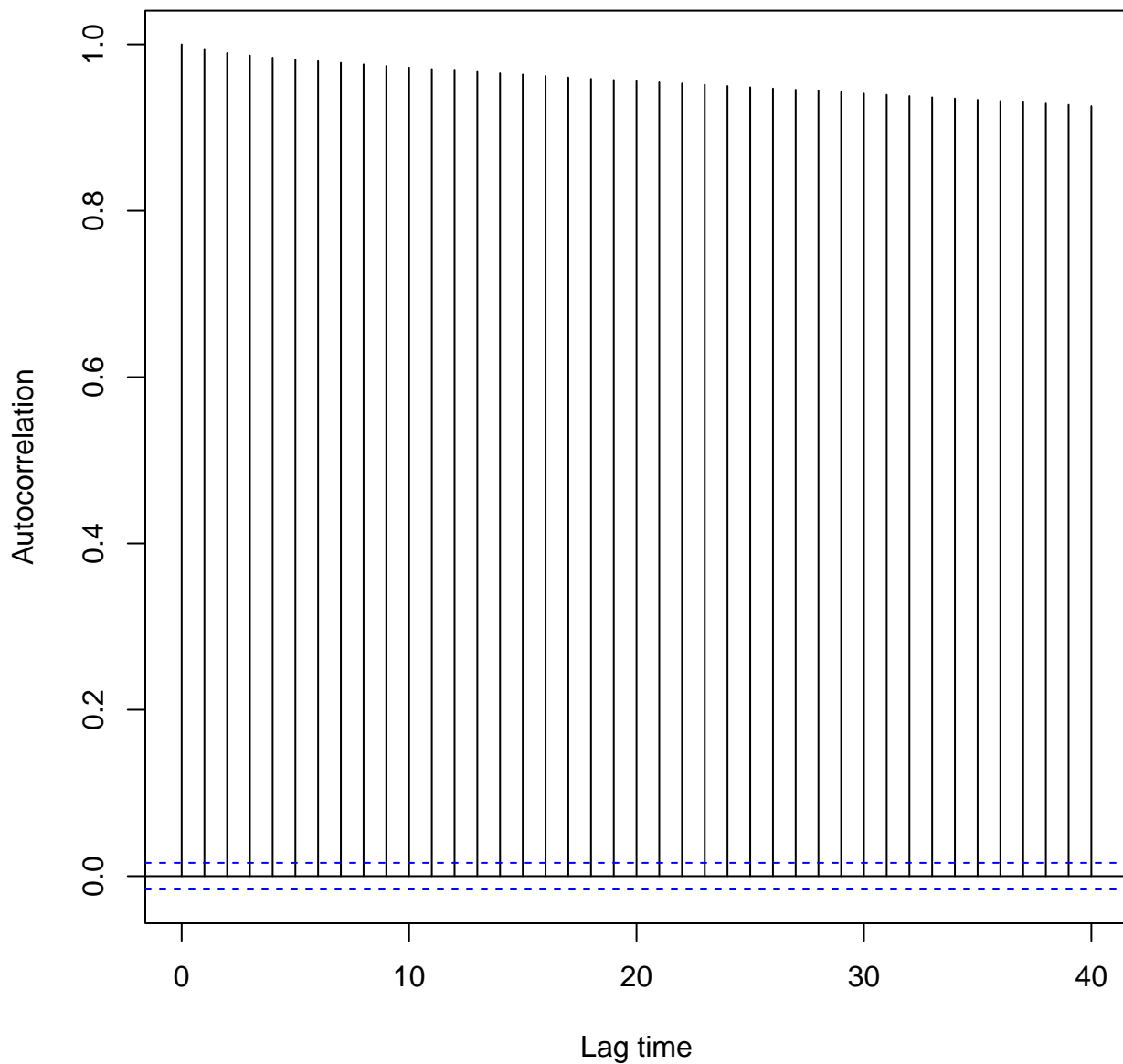
# Mutation V GTC Mixture: 1



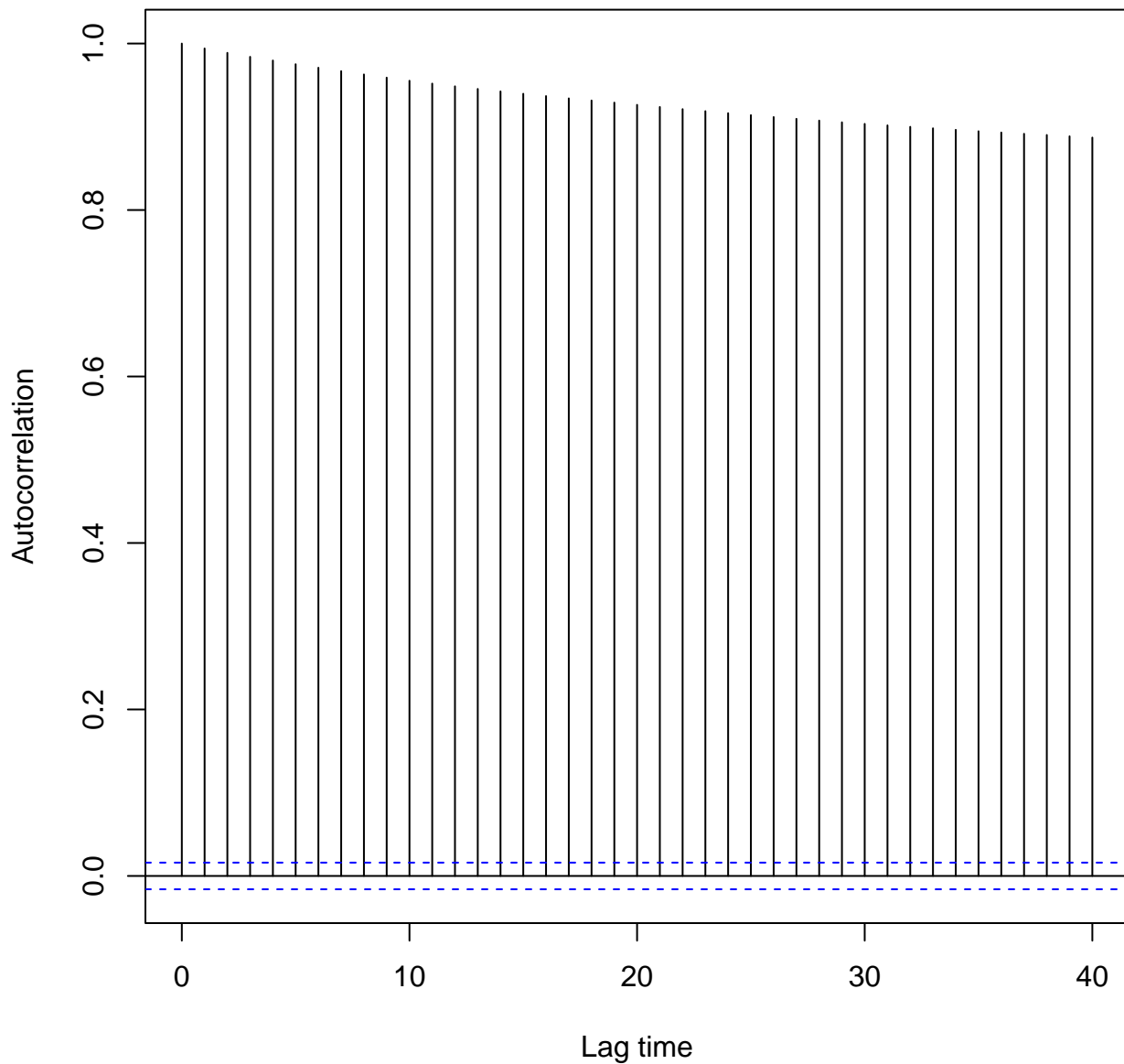
## Mutation V GTC Mixture: 2



# Mutation V GTG Mixture: 1

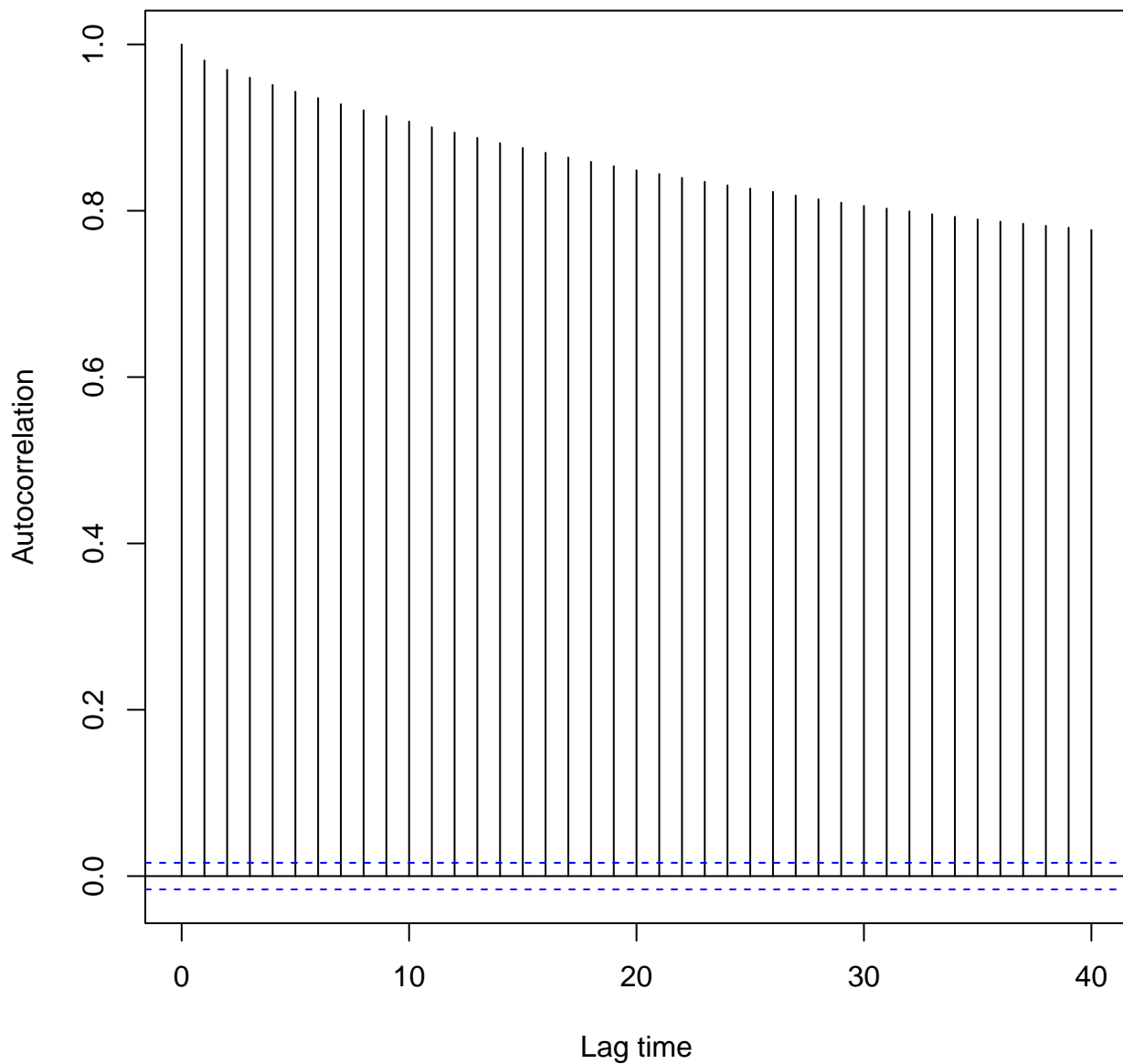


## Mutation V GTG Mixture: 2

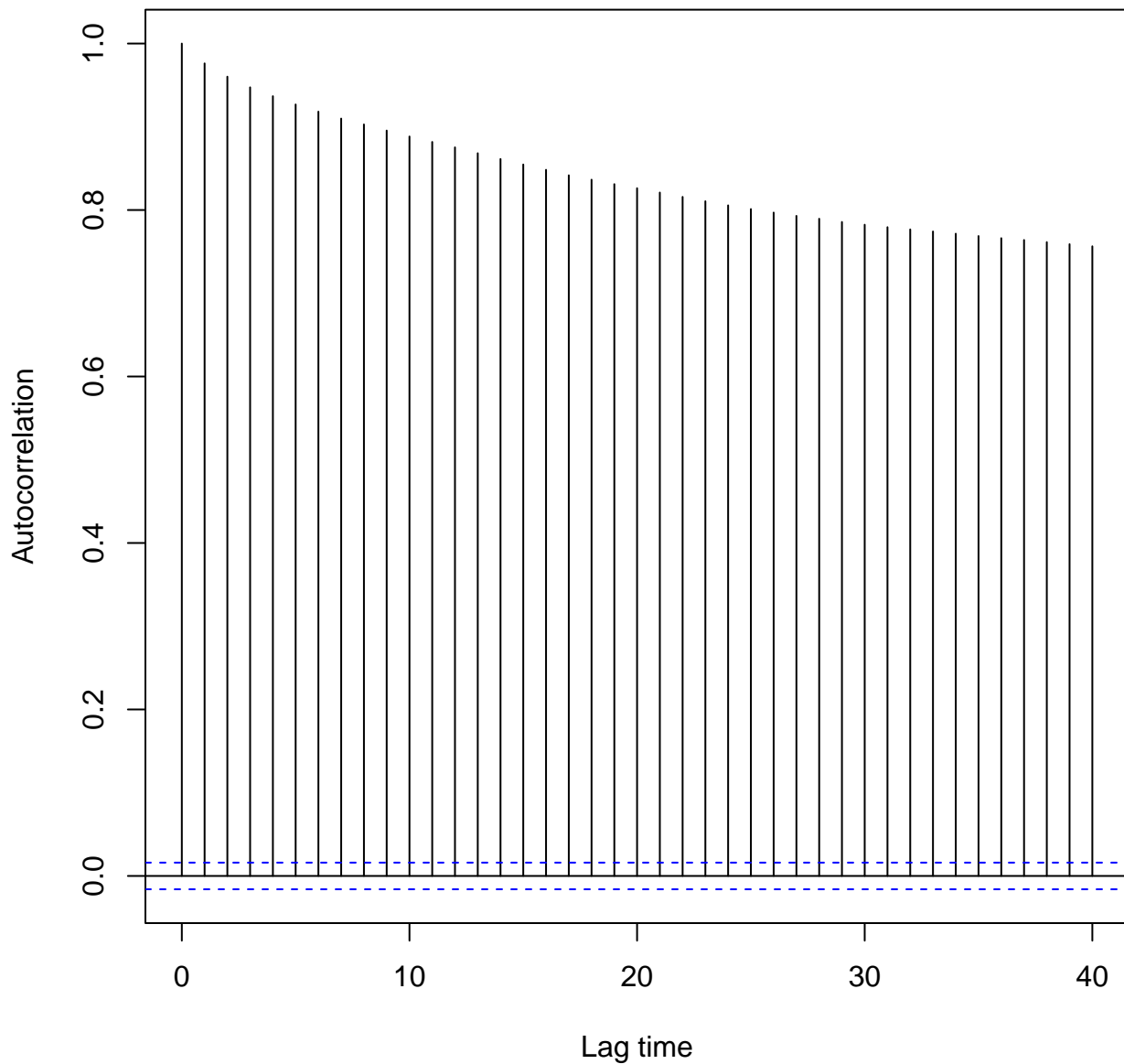




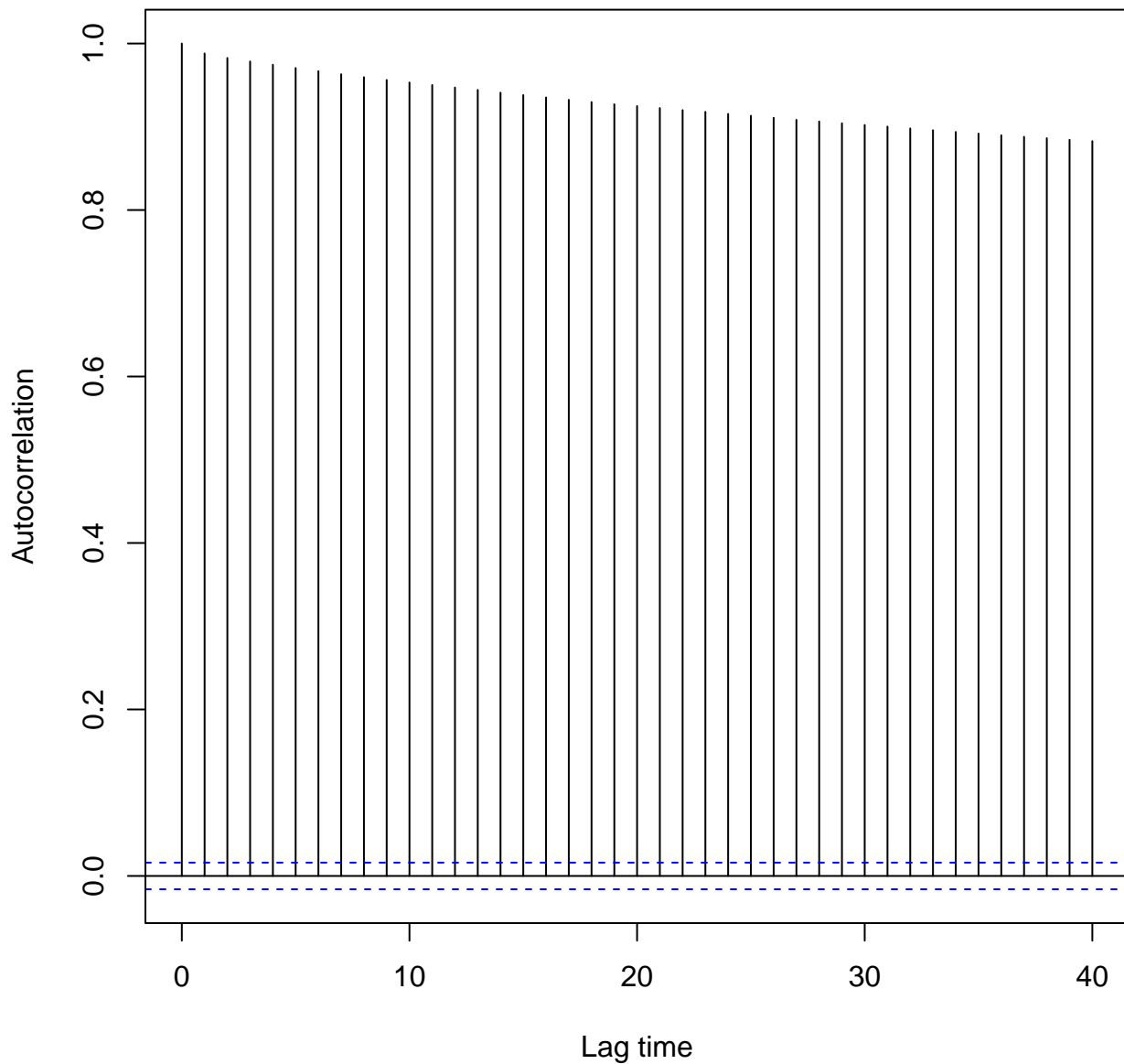
# Mutation Y TAC Mixture: 1



## Mutation Y TAC Mixture: 2



# Mutation Z AGC Mixture: 1



## Mutation Z AGC Mixture: 2

