

Fig. S1 Soil sample collection location（a factory used to accumulate industrial chromium slag in Shenyang, Liaoning province, China ）

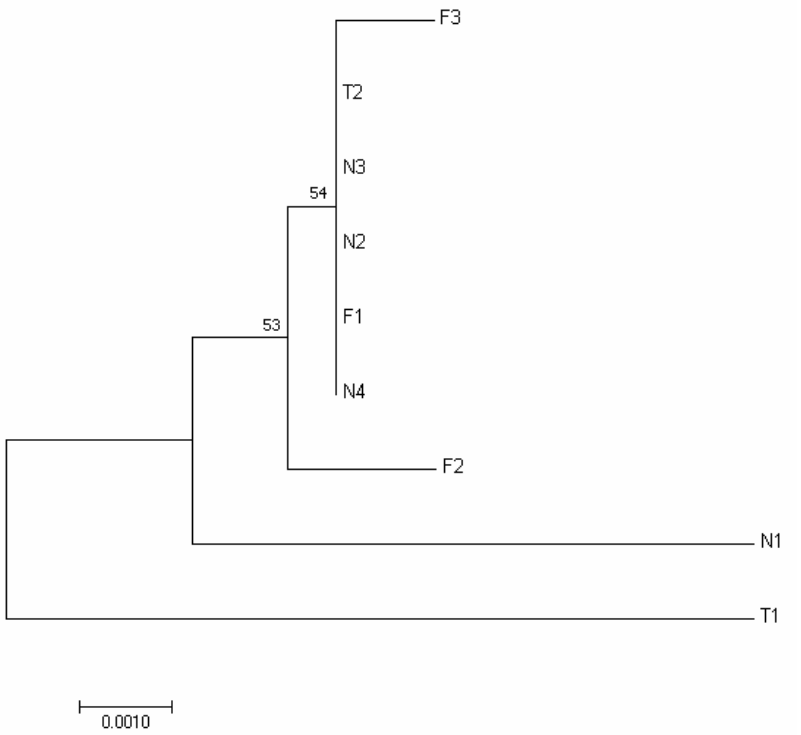


Fig. S2 16S rRNA gene sequence similarity of *B. subtilis* isolates.