

Fig. S1

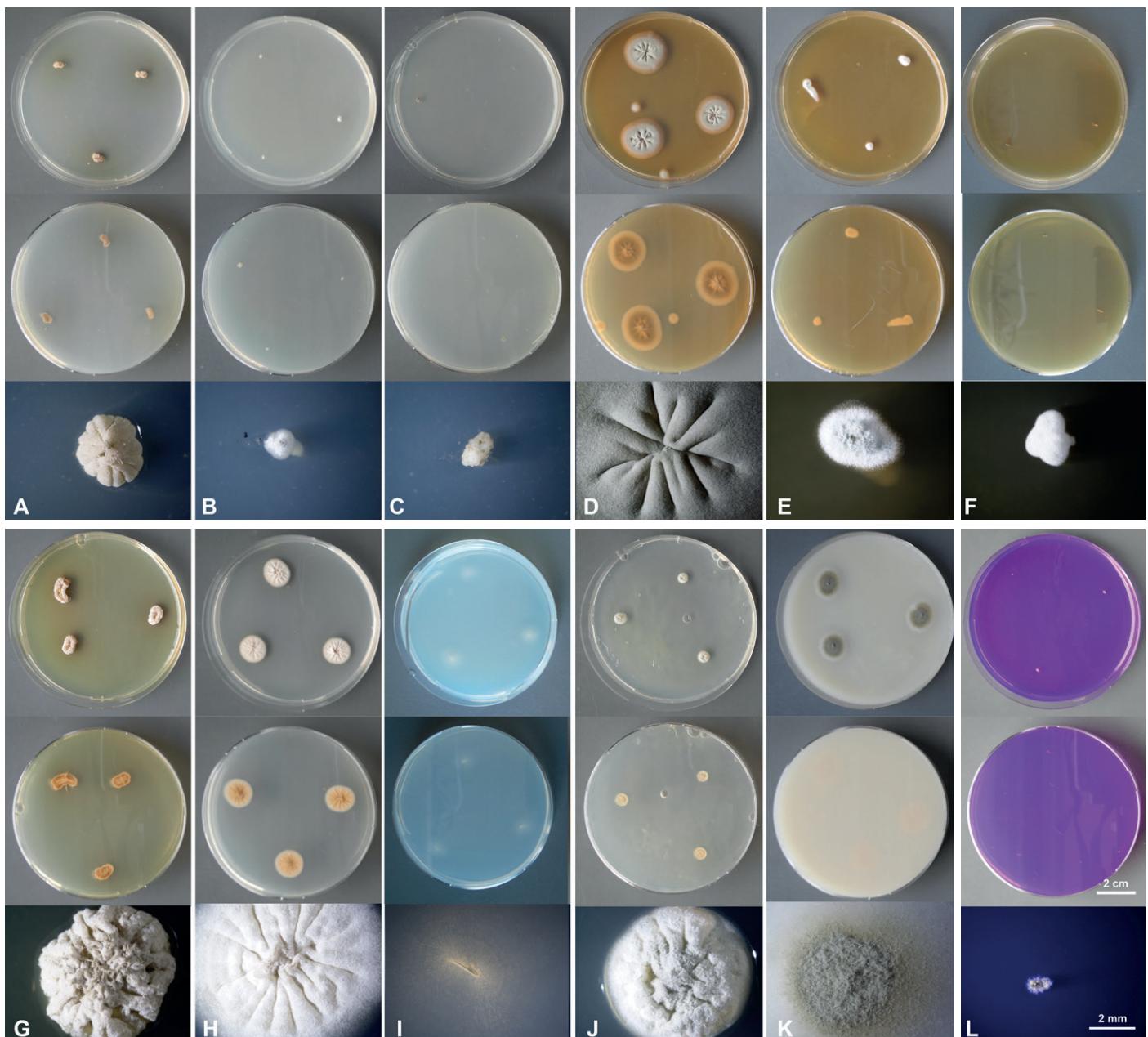


Fig. S1. Culture characteristics of *Penicillium poederi* sp. nov. after 2 wk incubation. From top to bottom: obverse, reverse, single colony. **A.** CYA 25 °C. **B.** CYA 10 °C. **C.** CYA 30 °C. **D.** MEA 25 °C. **E.** MEA 10 °C. **F.** 30 °C. **G.** YES 25 °C. **H.** DG18 25 °C. **I.** G25N 25 °C. **J.** SNA 25 °C. **K.** OA 25°C. **L.** CREA 25 °C.

Fig. S2

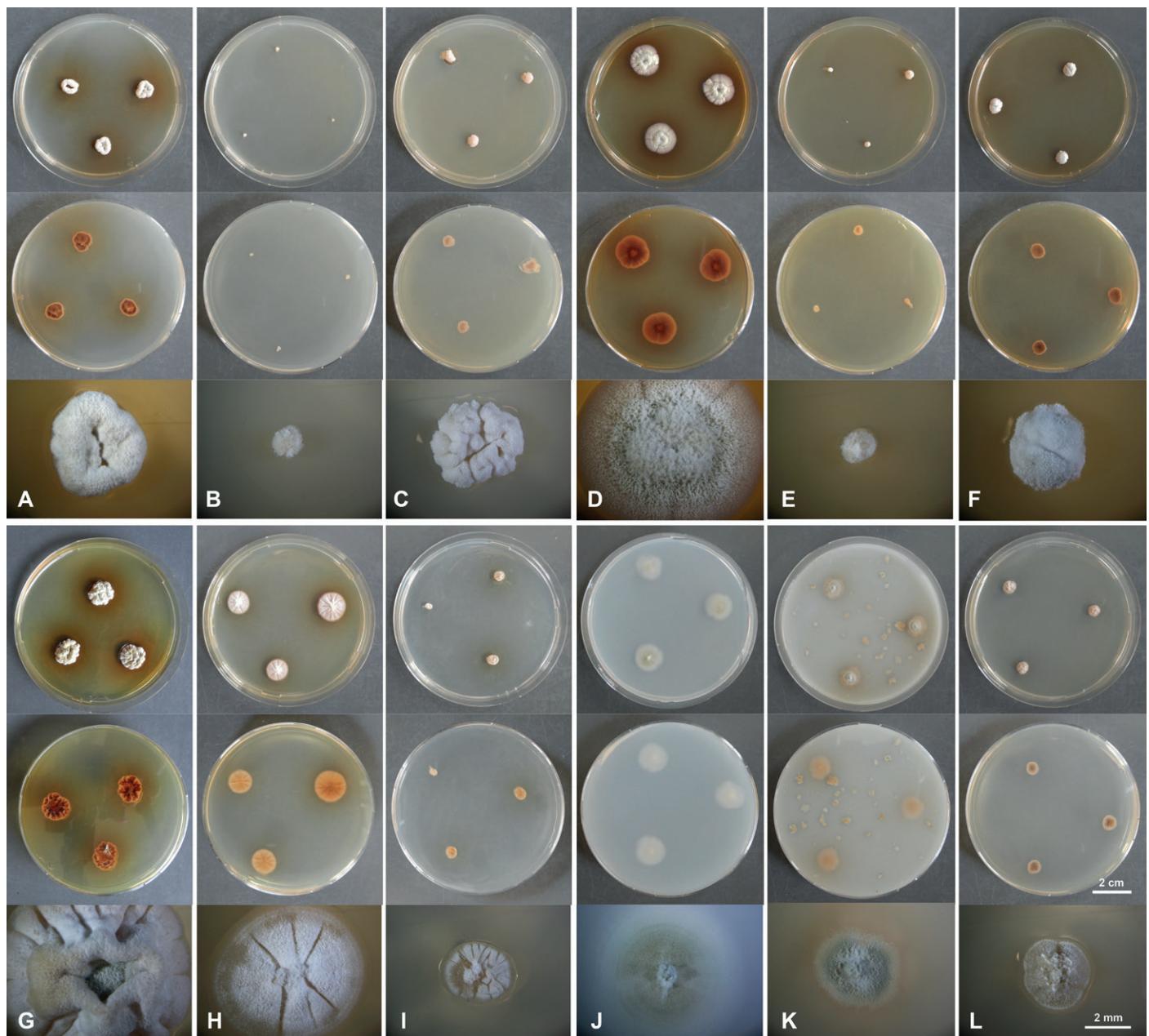


Fig. S2. Culture characteristics of *Penicillium tirolense* sp. nov. after 2 wk incubation. From top to bottom: obverse, reverse, single colony. **A.** CYA 25 °C. **B.** CYA 10 °C. **C.** CYA 30 °C. **D.** MEA 25 °C. **E.** MEA 10 °C. **F.** 30 °C. **G.** YES 25 °C. **H.** DG18 25 °C. **I.** G25N 25 °C. **J.** SNA 25 °C. **K.** OA 25 °C. **L.** CYAS 25 °C.

Fig. S3

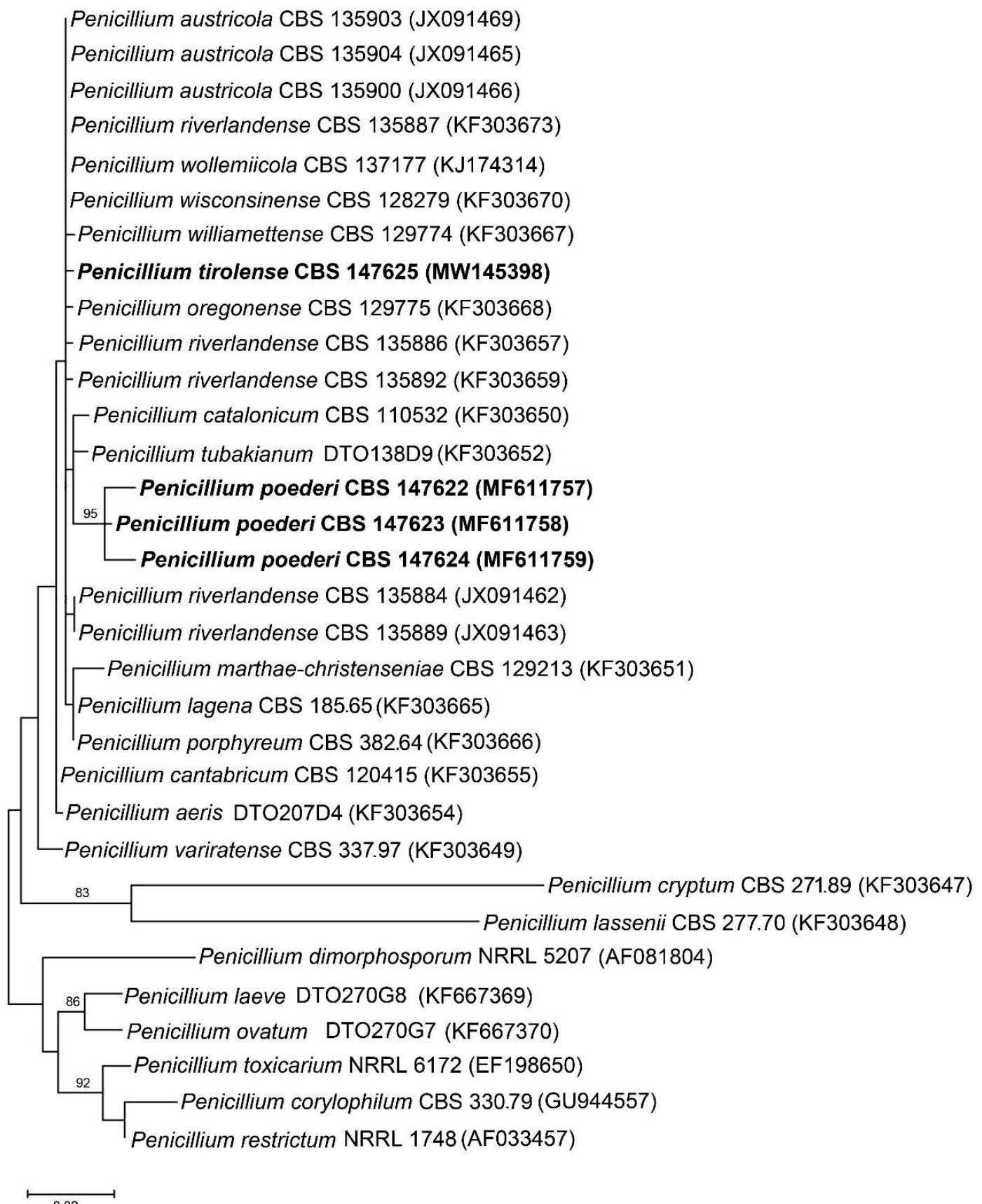


Fig. S3. ITS1-5.8S-ITS2 phylogeny (maximum likelihood) of *Penicillium* sect. *Torulomyces*. Bootstrap values higher than 80 % are indicated above branches. The new species are highlighted in bold font.

Fig. S4

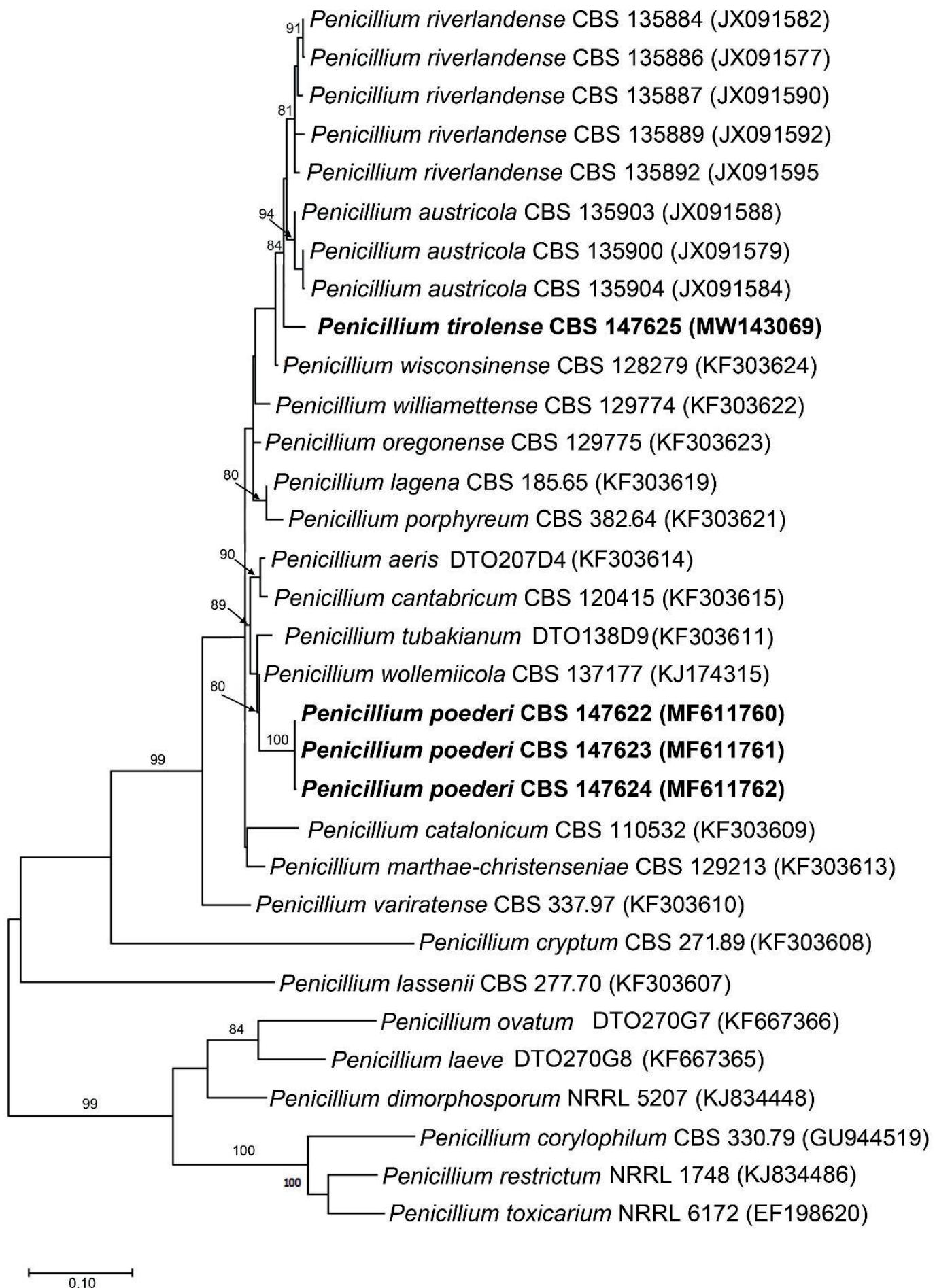


Fig. S4. BenA phylogeny (maximum likelihood) of *Penicillium* sect. *Torulomyces*. Bootstrap values higher than 80 % are indicated above branches. The new species are highlighted in bold font.

Fig. S5

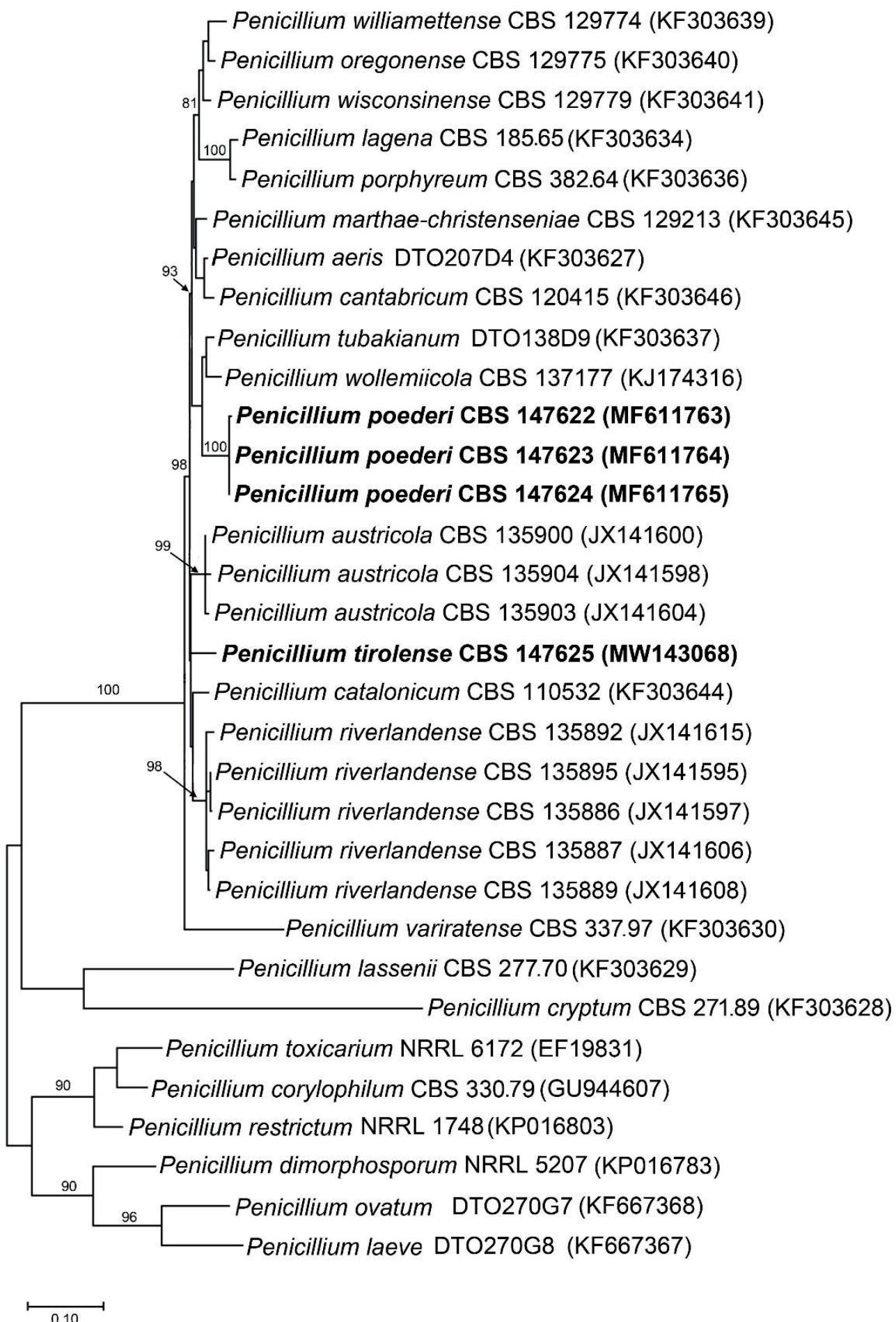


Fig. S5. CaM phylogeny (maximum likelihood) of *Penicillium* sect. *Torulomyces*. Bootstrap values higher than 80 % are indicated above branches. The new species are highlighted in bold font.

Fig. S6

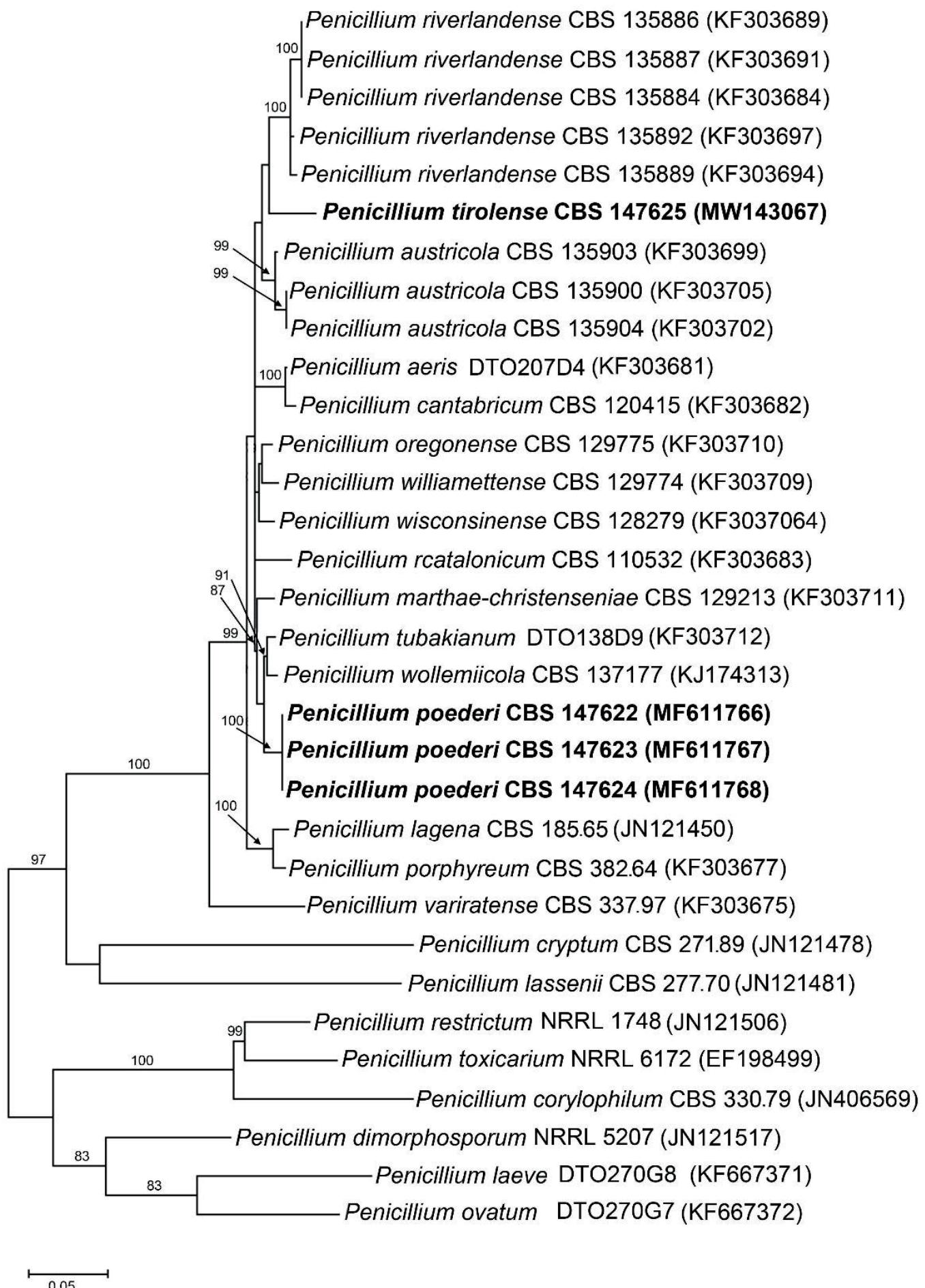


Fig. S6. RBP2 phylogeny (maximum likelihood) of *Penicillium* sect. *Torulomyces*. Bootstrap values higher than 80 % are indicated above branches. The new species are highlighted in bold font.