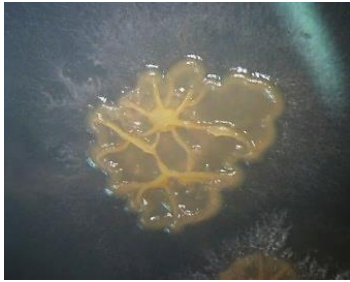



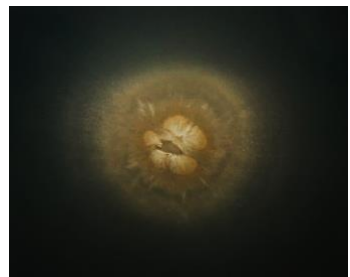

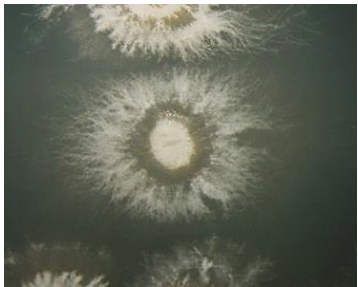





Colony number	Macroscopic and Microscopic appearance	Morphology description and productivity	Identification medium
1		Shape: irregular, surrounded by radial mycelium growth Margins: lobate Color: okra Surface: rough Avoparcin: 4.5 g/L	BTT-P
6		Shape: irregular Margins: lobate, surrounded by radial mycelium growth Color: orange Surface: rough Avoparcin: 1.7 g/L	ISP2
8		Shape: round Margins: irregular, surrounded by vigorous radial mycelium growth Color: okra Surface: rough Avoparcin: 1.9 g/L	BTT-P
10		Shape: round Margins: irregular, surrounded by radial mycelium growth Color: white to light yellow Surface: vertically protruding at the margins and depressed in the center, rough Avoparcin: 8.5 g/L	ISP2
14		Shape: round Margins: regular and fluffy, surrounded by radial mycelium growth with brownish color Color: okra to light brown Surface: rough Avoparcin: 9.3 g/L	BTT-P

Colony number	Macroscopic and Microscopic appearance	Morphology description	Identification medium
17		Shape: round Margins: regular, surrounded by radial mycelium growth Color: white Surface: dry and fragmented Avoparcin: 2.5 g/L	BTT-P
18		Shape: round Margins: irregular, surrounded by fluffy and vigorous radial mycelium growth Color: white Surface: rough Avoparcin: 8.5 g/L	ISP2
22		Shape: round Margins: irregular, surrounded by radial mycelium growth Color: white Surface: fluffy Avoparcin: 8.0 g/L	ISP2
23		Shape: round Margins: regular Color: light brown/pinkish Surface: rough, irregular and protruding in the center Avoparcin: 6.0 g/L	BTT-P
24		Shape: irregular Margins: slightly lobate, surrounded by faint radial mycelium growth Color: light brown Surface: rough and heavily protruding in the centre Avoparcin: 2.2 g/L	ISP2

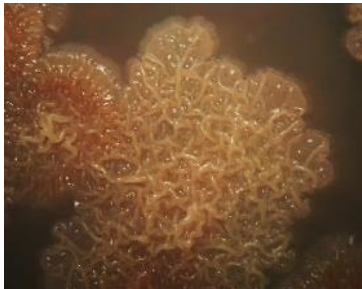
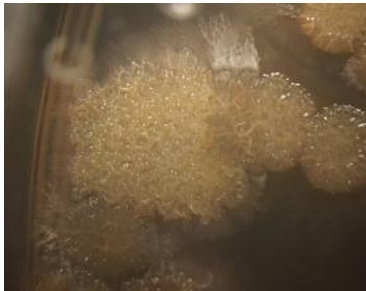
29		Shape: irregular Margins: lobate, fast growth and colonization of neighboring colonies Color: light brown/okra Surface: rough Avoparcin: 1.4 g/L	BTT-P
30		Shape: round Margins: irregular, fast growth and colonization of neighboring colonies, lobate surrounded by scarce radial mycelium growth Color: light yellow Surface: rough Avoparcin: 1.3 g/L	ISP2

Table S1. Description of the morphological variants isolated from *A. coloradensis* ATCC 53629. Each independent clone was cross-checked for purity and stability of the phenotype on different agar media. Avoparcin productivity SD = $\pm 10\%$.