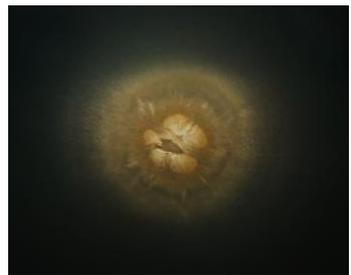
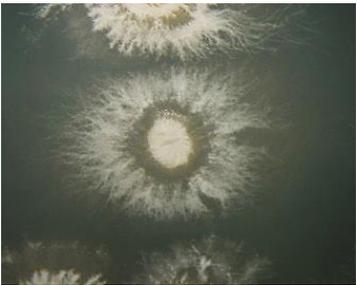


Colony number	Macroscopic and Microscopic appearance	Morphology description and productivity	Identification medium
1		Shape: irregular, surrounded by radial mycelium growth Margins: lobate Color: okra Surface: rough Avoparcin: 4.5 g/L	BTT-P
6		Shape: irregular Margins: lobate, surrounded by radial mycelium 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		<p>Shape: round</p> <p>Margins: regular, surrounded by radial mycelium growth</p> <p>Color: white</p> <p>Surface: dry and fragmented</p> <p>Avoparcin: 2.5 g/L</p>	BTT-P
18		<p>Shape: round</p> <p>Margins: irregular, surrounded by fluffy and vigorous radial mycelium growth</p> <p>Color: white</p> <p>Surface: rough</p> <p>Avoparcin: 8.5 g/L</p>	ISP2
22		<p>Shape: round</p> <p>Margins: irregular, surrounded by radial mycelium growth</p> <p>Color: white</p> <p>Surface: fluffy</p> <p>Avoparcin: 8.0 g/L</p>	ISP2
23		<p>Shape: round</p> <p>Margins: regular</p> <p>Color: light brown/pinkish</p> <p>Surface: rough, irregular and protruding in the center</p> <p>Avoparcin: 6.0 g/L</p>	BTT-P
24		<p>Shape: irregular</p> <p>Margins: slightly lobate, surrounded by faint radial mycelium growth</p> <p>Color: light brown</p> <p>Surface: rough and heavily protruding in the centre</p> <p>Avoparcin: 2.2 g/L</p>	ISP2

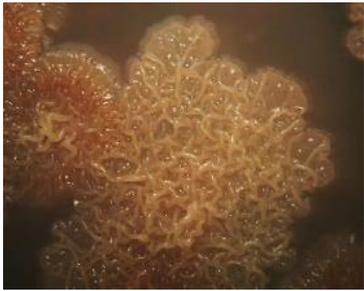
29		<p>Shape: irregular Margins: lobate, fast growth and colonization of neighboring colonies Color: light brown/okra Surface: rough Avoparcin: 1.4 g/L</p>	BTT-P
30		<p>Shape: round Margins: irregular, fast growth and colonization of neighboring colonies, lobate surrounded by scarce radial mycelium growth Color: light yellow Surface: rough Avoparcin: 1.3 g/L</p>	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 = $\pm 10\%$.