

Name: ***Planomonospora sphaerica***
Authors: Mertz 1994
Status: New Species
Literature: Int. J. Syst. Bacteriol. 44:278
Risk group: 1 (German classification)
Type strain: A51460, NRRL 18923, DSM 44632

Author(s) Mertz, F. P.
Title *Planomonospora alba* sp. nov. and *Planomonospora sphaerica* sp. nov., two new species isolated from soil by baiting techniques.
Journal Int. J. Syst. Bacteriol.
Volume 44
Page(s) 274-281
Year 1994

Fatty acid pattern:

13 : 0	1,0		
14 : 0	4,0	17 : 0	10,0
15 : 0	5,0	17 : 0 10methyl	8,0
16 : 0 Iso	4,0	18 : 1 cis 9	15,0
16 : 1 cis 9	6,0	18 : 0	6,0
16 : 0	15,0		
16 : 0 10methyl	1,0		
17 : 1 cis 9	15,0		

Genus: *Planomonospora*

FH 2706

Species: *sphaerica*

Numbers in other collections: ATCC 51587

Morphology:

	G	R
<u>ISP 2</u>	good	dahlia yellow
	A	SP
	white	none
	G	R
<u>ISP 3</u>	good	dahlia yellow
	A	SP
	white	none
	G	R
<u>ISP 4</u>	good	red orange
	A	SP
	none	none
	G	R
<u>ISP 5</u>	good	colorless
	A	SP
	none	none
	G	R
<u>ISP 6</u>	good	colorless
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	red orange
	A	SP
	none	none

Spore chains:

Spore surface: smooth

Sporangia: +

Fragmentation: -

Melanoid pigment: - - - -

NaCl resistance: 5 %

Lysozyme resistance: -

pH: Value- Optimum-

Temperature : Value- Optimum- 28 °C

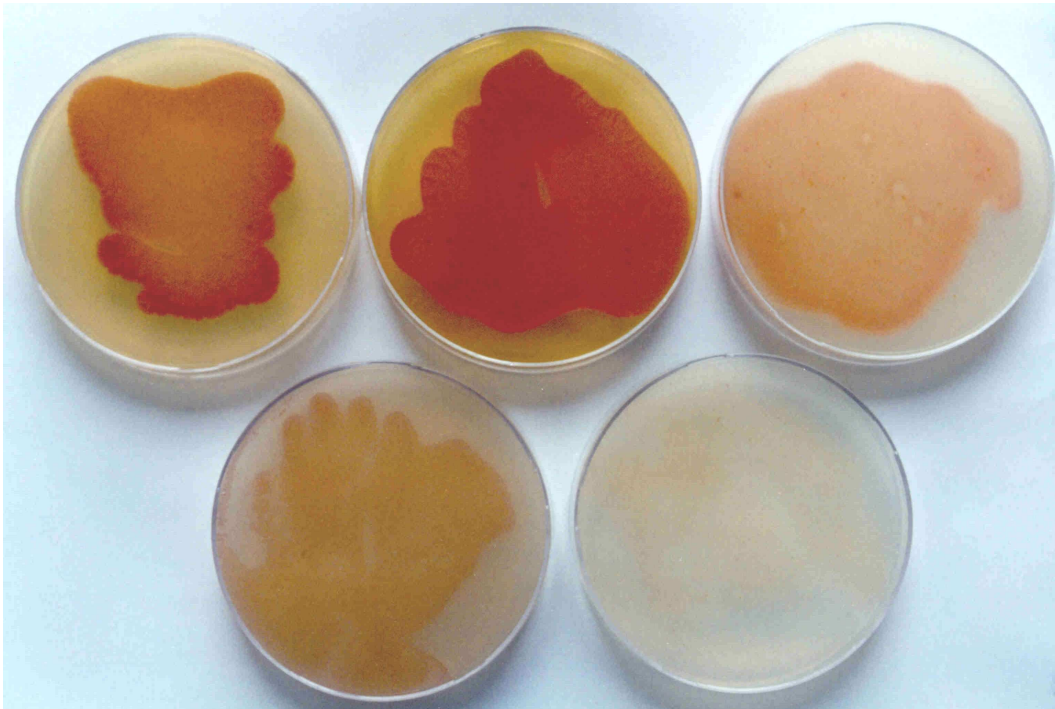
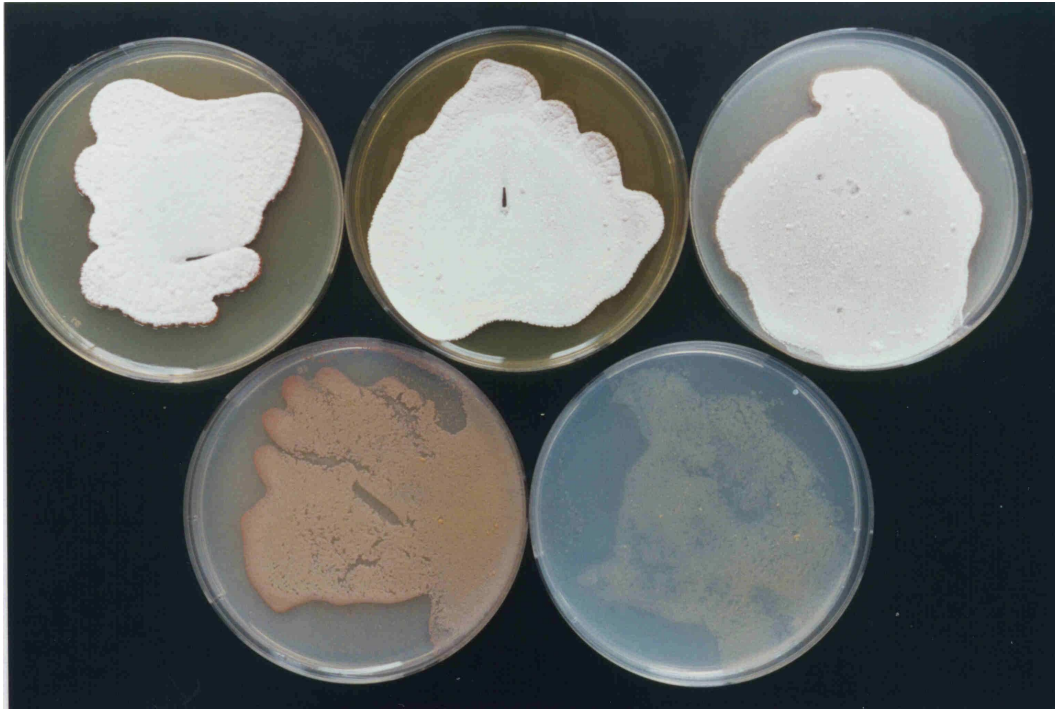
Carbon utilization:

Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
+	+	-	-	-	+	+	(+)	-	-

Enzymes:

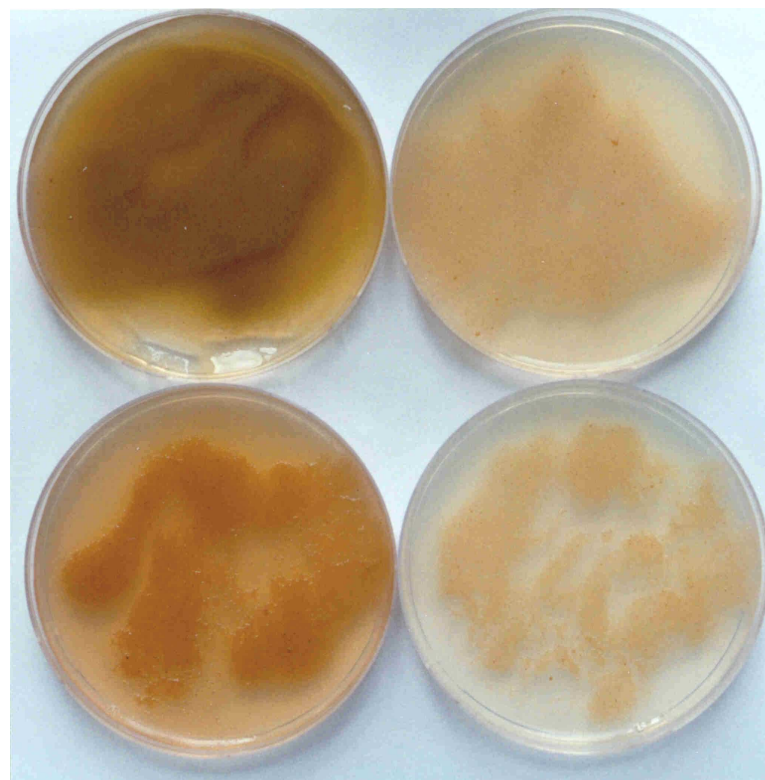
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
+	+	+	+	+	-	+	+	+	-	-

2+ 3- 4(+) 5- 6(+) 7(+) 8(+) 9(+) 10(+) 11+ 12+ 13- 14(+) 15(+) 16+ 17+ 18+ 19- 20-



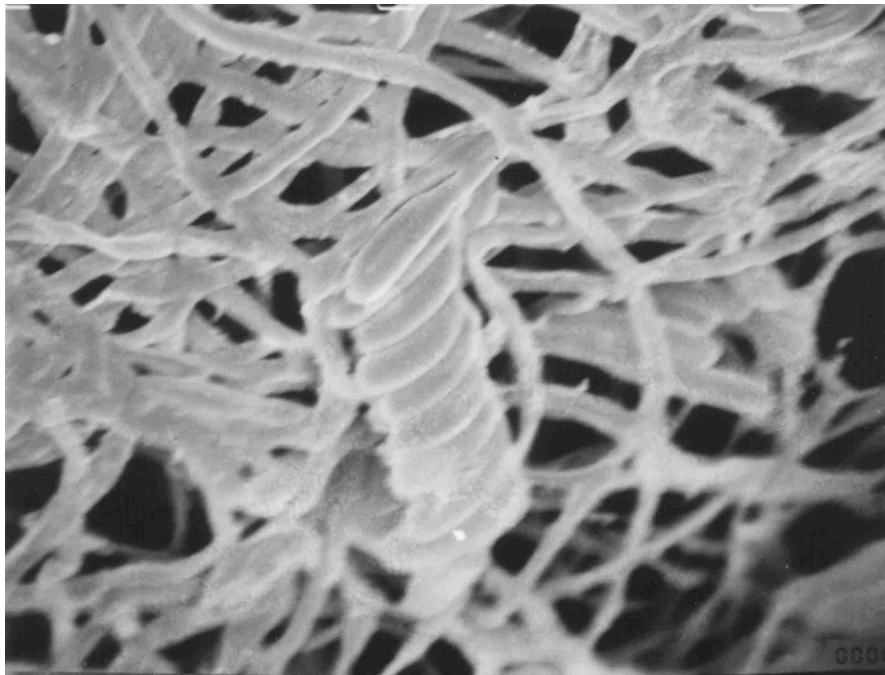
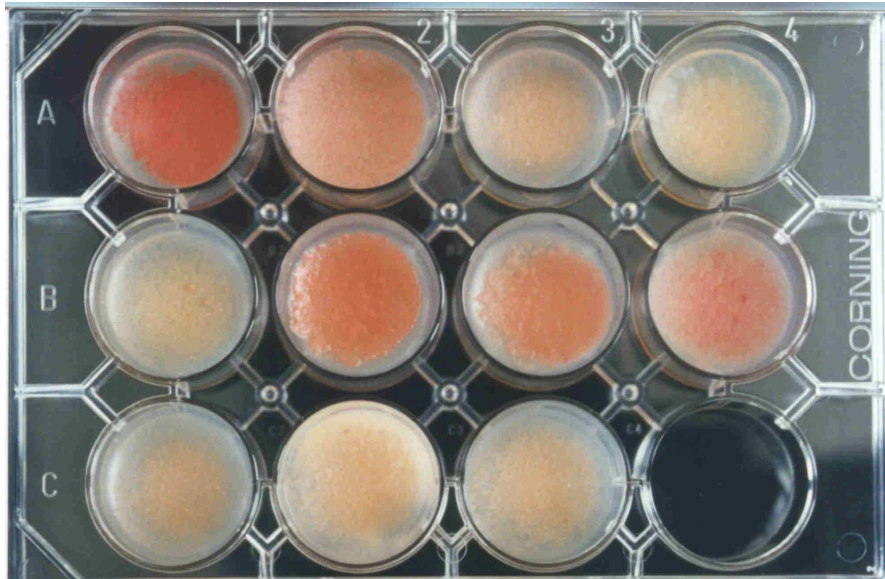
Planomonospora sphaerica

A and B – Agar plates medium 5006, 5265, 5315, 5317 and 5323 (B reverse side)



Planomonospora sphaerica

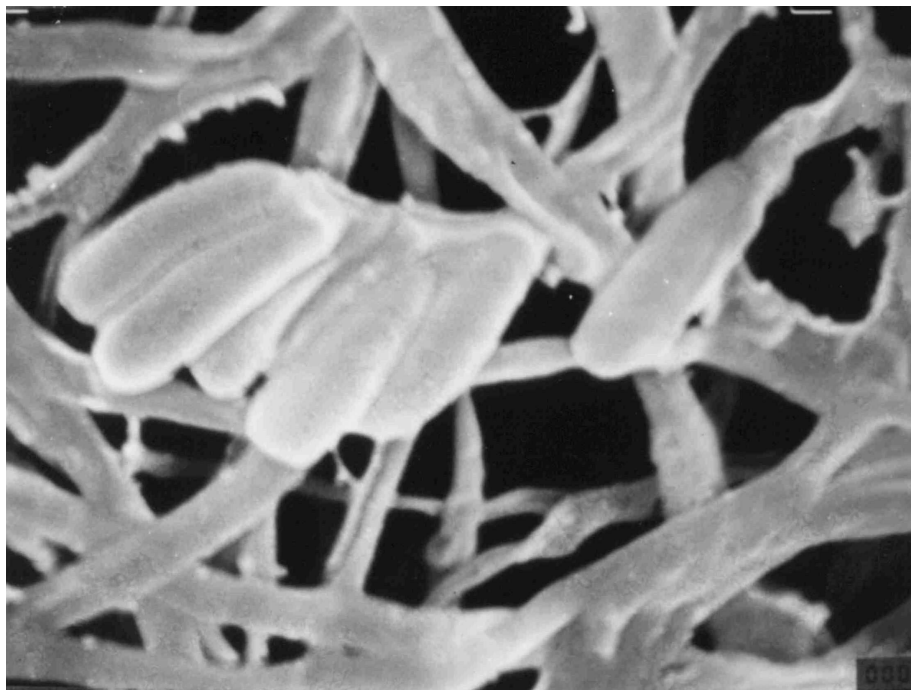
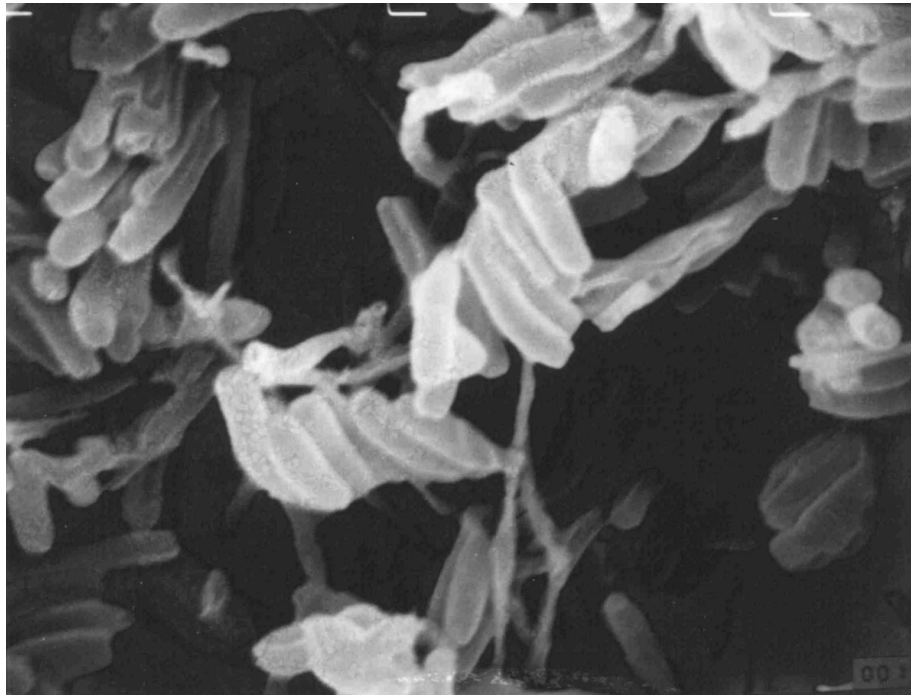
C and D – Agar plates medium 5318, 5322, 5337 with and without tyrosine



Planomonospora sphaerica

E – Microplate for carbon utilization

F – Sporangia in SEM (x 5.000)



Planomonospora sphaerica

Sporangia in SEM

G x 5.000 H x 10.000