Name: ***Micromonospora purpureochromogenes***

Authors: (Waksman and Curtis 1916) Luedemann 1971

Status: Approved Lists

Literature: Int. J. Syst. Bacteriol. 30:322 (AL)

Risk group: 1 (German classification)

Type strain: ATCC 27007, DSM 43821, IMET 8213

Synonyms: *Micromonospora brunnea* (heterotypic synonym)

Author(s)	Luedemann, G. M.
Title	*Micromonospora purpureochromogenes* (Waksman and Curtis, 1916) comb. nov. (subjective synonym: *Micromonospora fusca* Jensen, 1932).
Journal	Int. J. Syst. Bacteriol.
Volume	21
Page(s)	240-247
Year	1971

Fatty acid pattern:

14 : 0	Iso	3,0		
15 : 0	Iso	13,0		
15 : 0	Anteiso	13,0	18 : 1 cis 9	11,0
15 : 0		4,0	18 : 0	6,0
16 : 0	Iso	13,0	20 : 0	2,0
16 : 1	cis 9	3,0		
16 : 0		10,0		
17 : 0	Anteiso	4,0		
17 : 1	cis 9	4,0		
17 : 0		3,0		

Genus: Micromonospora **FH 2356**
Species: purpureochromogenes
Numbers in other collections: ATCC 27007

Morphology:

	G	R
ISP 2	good	orange brown
	A	SP
	none	none
	G	R
ISP 3	good	red brown
	A	SP
	none	none
	G	R
ISP 4	good	brown
	A	SP
	none	none
	G	R
ISP 5	good	brown
	A	SP
	white	none
	G	R
ISP 6	sparse	orange
	A	SP
	none	none
	G	R
ISP 7	good	red brown
	A	SP
	none	none

Spore chains: Spore surface:
Sporangia: Fragmentation:

Melanoid pigment: **- - + -**
NaCl resistance: 0 %
Lysozyme resistance: 0
pH: Value- from 3,5 Optimum-
Temperature : Value- Optimum- 28 ℃

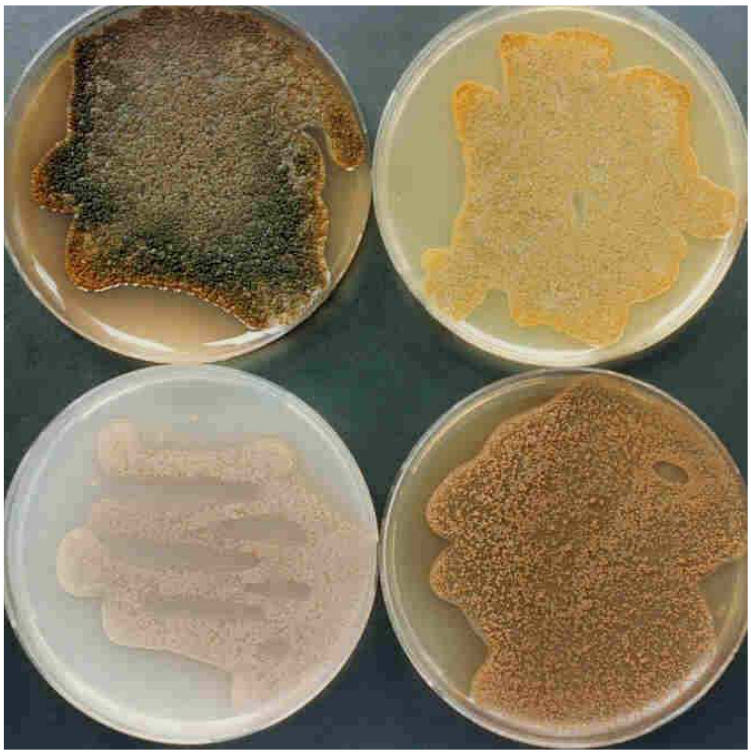
Carbon utilization:

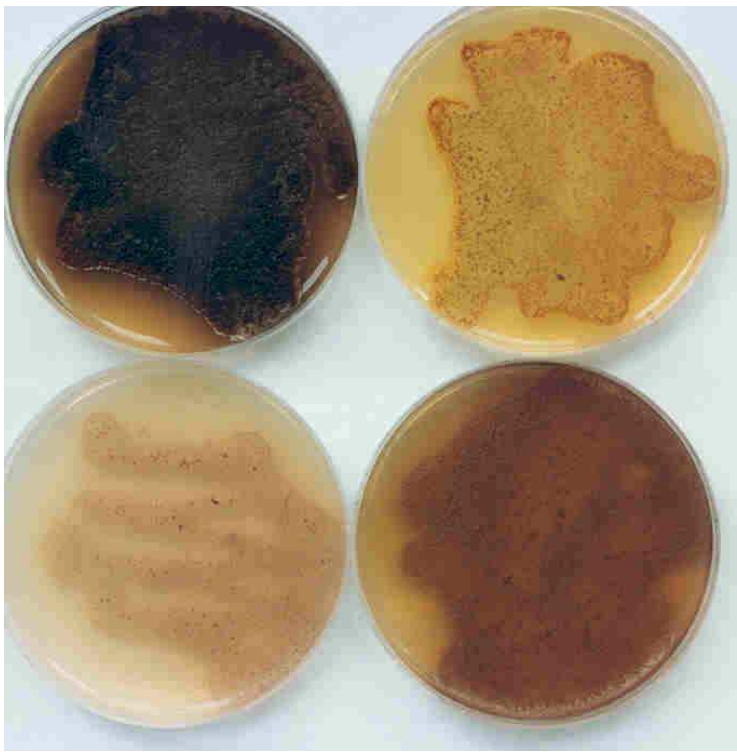
Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
+	-	+	-	-	-	+	-	+	-

Enzymes:

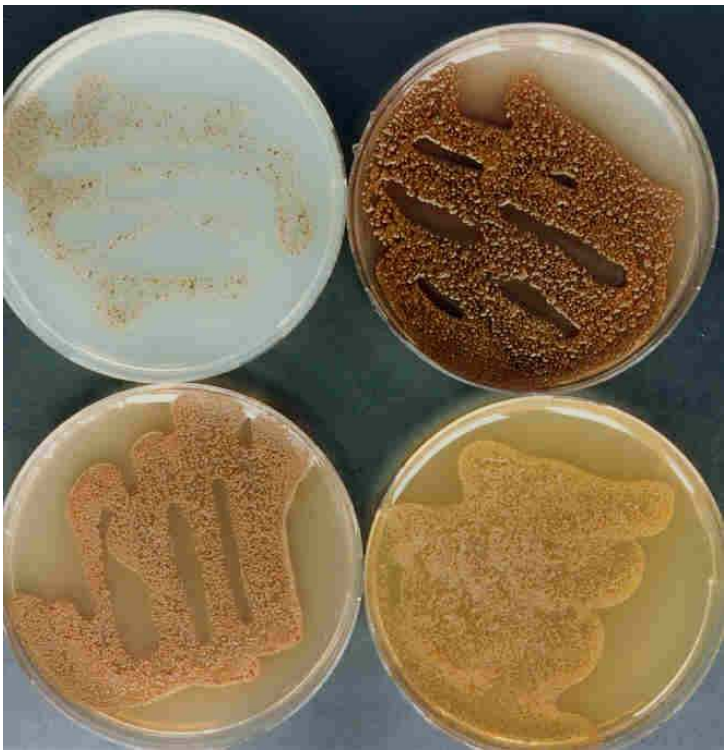
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
+	-	-	-	-	-	-	-	+	-	-

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

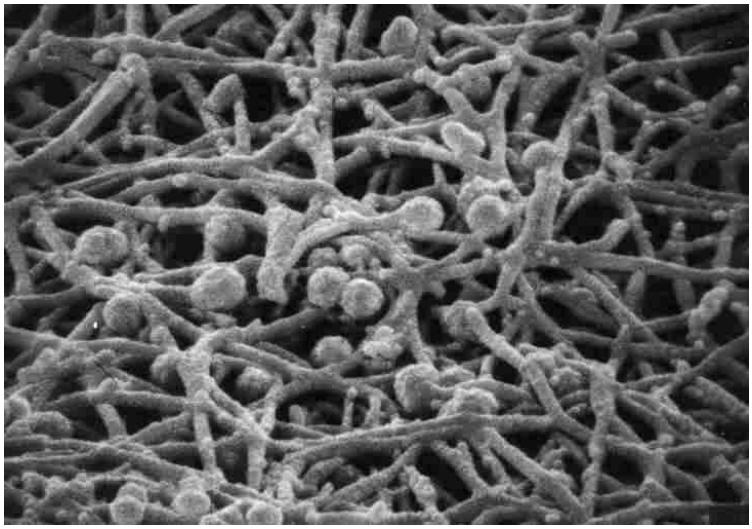




Micromonospora purpureochromogenes
A and B – Agar plates medium 5265, 5315, 5317 and 5323



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



Micromonospora purpureochromogenes
E x Microplate for carbon utilization
F x Single spores in SEM (x 7.500)

Genus	*Micromonospora*
Species	*purpureochromogenes*
Subspecies	
Author	Sveshnikova et al. 1969

Reclassification ← *Micromonospora brunnea*

Status Synonym

Type species ATCC 27334, DSM 43814, IMET 8304

Hazard group 1

Fatty acid pattern:

14 : 0	Iso	2,0	17 : 0		12,0
15 : 0	Iso	13,0	18 : 1	cis 9	4,0
15 : 0	Anteiso	11,0	18 : 0		5,0
15 : 0		7,0	19 : 0		2,0
16 : 1	Iso G	25,0			
16 : 0	10methyl	2,0			
16 : 0	Iso	12,0			
16 : 0	9methyl	2,0			
17 : 0	Iso	3,0			
17 : 0	Anteiso	7,0			
17 : 1	cis 9	10,0			

Genus: ***Micromonospora*** **FH 2540**
Species: ***brunnea***
Numbers in other collections: ATCC 27334
Synonym of Micromonospora purpureochromogenes
Morphology:

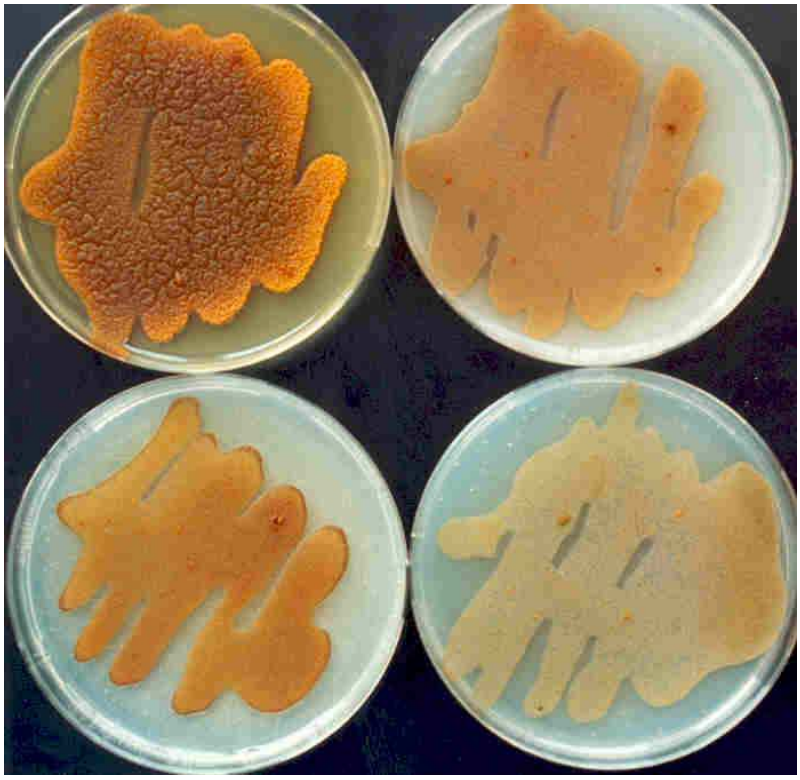
	G	R
ISP 2	good	red orange
	A	SP
	none	none
	G	R
ISP 3	good	red orange
	A	SP
	none	none
	G	R
ISP 4	good	red orange
	A	SP
	none	none
	G	R
ISP 5	good	red orange
	A	SP
	white	none
	G	R
ISP 6	sparse	red orange
	A	SP
	none	none
	G	R
ISP 7	good	red orange
	A	SP
	none	none

Spore chains: Spore surface:
Sporangia: Fragmentation:
Melanoid pigment: **- - - -**
NaCl resistance: 0 %
Lysozyme resistance:
pH: Value- Optimum-
Temperature : Value- Optimum- 28 ℃
Carbon utilization:

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

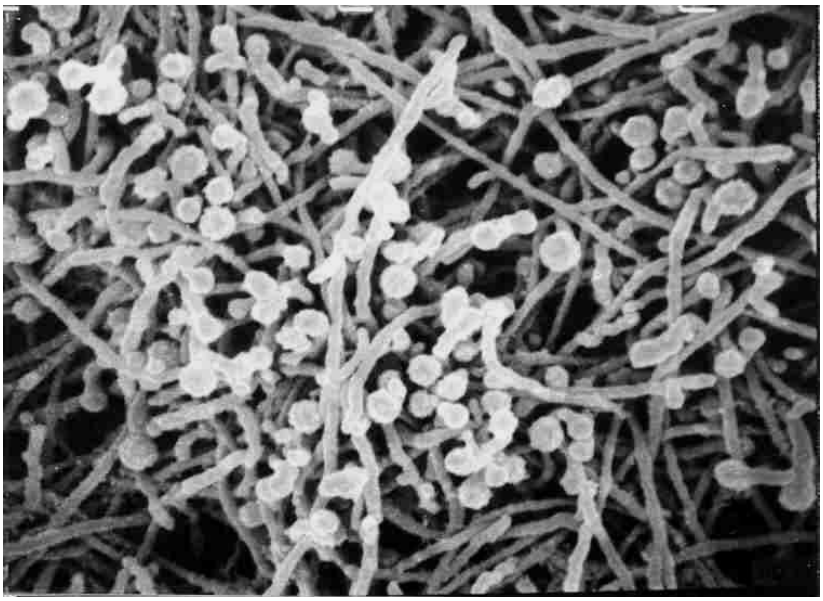
Enzymes:

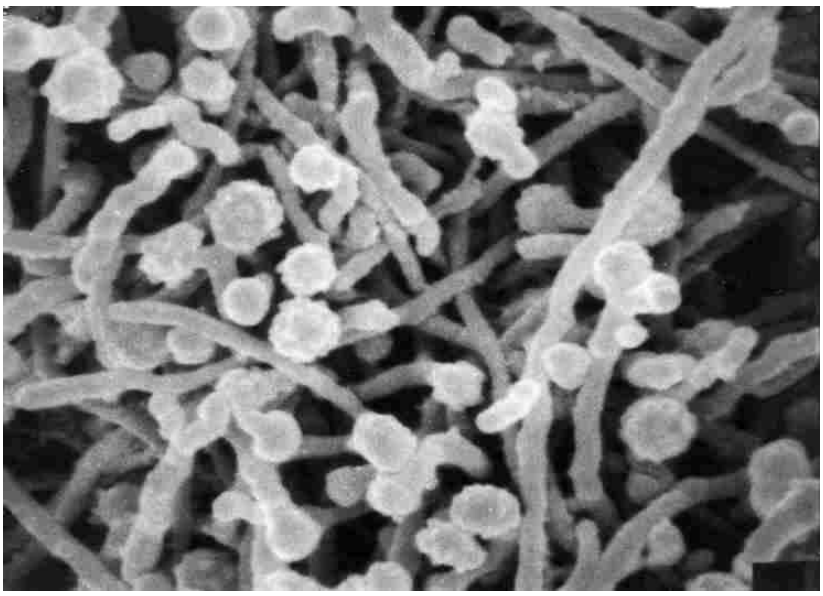
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
+	-	+	+	-	-	+	+	+	-	-
2 +	3 +	4 +	5 +	6 +	7 -	8 +	9 +	10 +	11 +	12 +
13 +	14 +	15 +	16 +	17 -	18 +	19 -	20 -			



Micromonospora purpureochromogenes
A and B – Agar plates medium 5265, 5315, 5317 and 5323

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





Micromonospora purpureochromogenes
Single spores with ornamentation in SEM
E x 5.000 F x 10.000