

Name: ***Actinomadura echinospora***

Authors: (Nonomura and Ohara 1971)
Kroppenstedt et al. 1991

Status: New Combination

Literature: Int. J. Syst. Bacteriol. 41:178 (validation list)

Risk group: 1 (German classification)

Type strain: ATCC 27300, DSM 43163

Synonyms: *Microbispora echinospora* (basonym)

Fatty acid pattern:

145 : 0	5,0
16 : 0 Iso	12,0
16 : 1 cis 9	4,0
16 : 0	15,0
17 : 1 cis9	11,0
17 : 0	13,0
17 : 0 10methyl	9,0
18 : 0 Iso	3,0
18 : 1 cis 9	9,0
18 : 0	6,0

Genus: *Actinomadura*

FH 2442

Species: *echinospora*

Numbers in other collections: ATCC 27300

Former *Microbispora echinospora*

Morphology:

	G	R
<u>ISP 2</u>	good	colourless
	A	SP
	none	none
	G	R
<u>ISP 3</u>	good	colourless
	A	SP
	none	none
	G	R
<u>ISP 4</u>	good	ochre brown
	A	SP
	sparse	none
	G	R
<u>ISP 5</u>	good	ochre brown
	A	SP
	white	none
	G	R
<u>ISP 6</u>	sparse	colourless
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	ochre brown
	A	SP
	white	none

Spore chains:

Spore surface:

Sporangia:

Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: 2,5 %

Lysozyme resistance: -

pH: Value- Optimum-

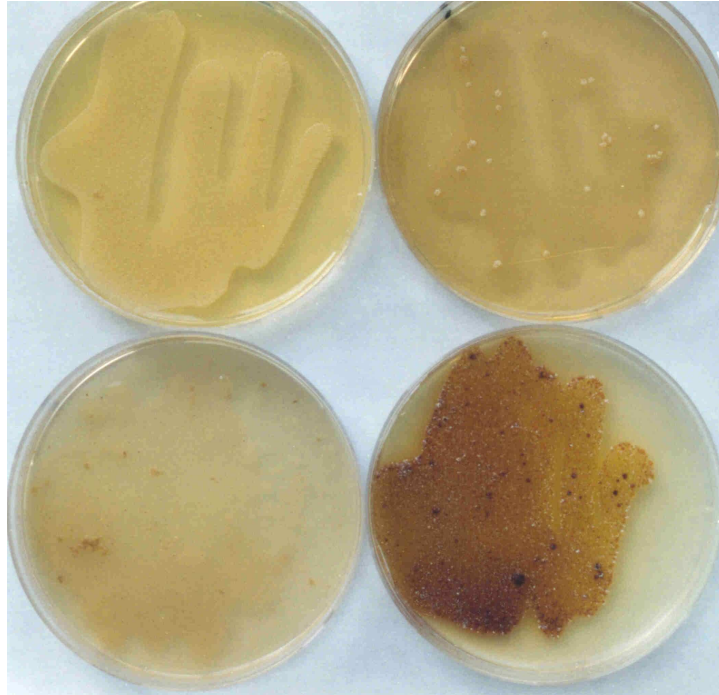
Temperature : Value- Optimum- 37 °C

Carbon utilization:

Glu Ara Suc Xyl Ino Man Fru Rha Raf Cel

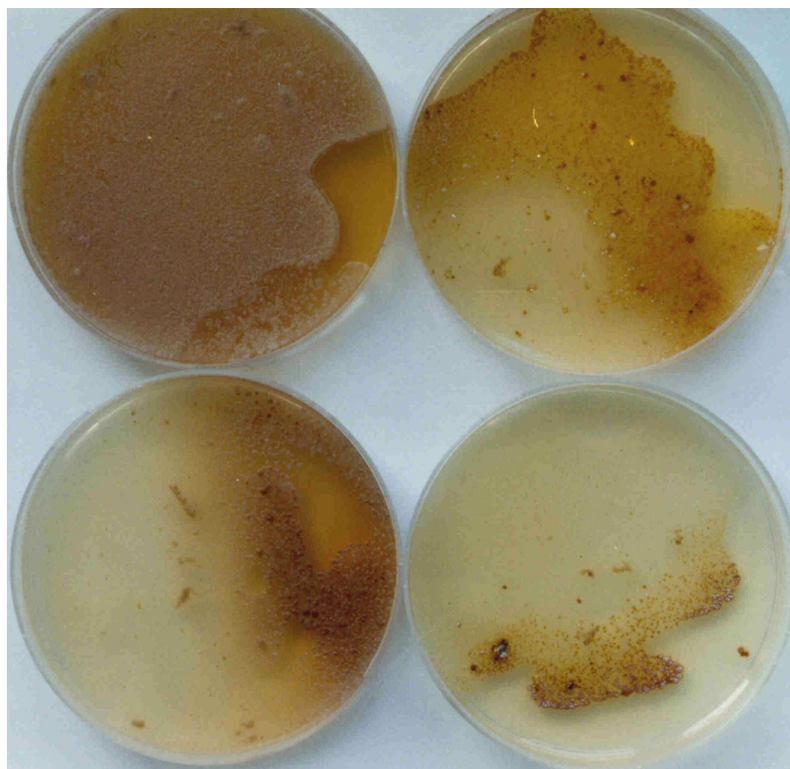
Enzymes:

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



Actinomadura echinospora

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



Actinomadura echinospora

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

Genus: *Actinomadura*

FH 2666

Species: *echinospora*

Numbers in other collections: IFO 14042

Morphology:

	G	R
<u>ISP 2</u>	good	copper brown
	A	SP
	none	none
	G	R
<u>ISP 3</u>	good	copper brown
	A	SP
	white	none
	G	R
<u>ISP 4</u>	sparse	
	A	SP
	none	none
	G	R
<u>ISP 5</u>	sparse	
	A	SP
	none	none
	G	R
<u>ISP 6</u>	good	signal orange
	A	SP
	none	brown
	G	R
<u>ISP 7</u>	good	beige
	A	SP
	none	none

Spore chains:

Spore surface:

Sporangia:

Fragmentation: -

Melanoid pigment: + - - -

NaCl resistance: 0 %

Lysozyme resistance:

pH: Value- Optimum-

Temperature : Value- Optimum- 37°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-			



Actinomadura echinospora

A – Agar plates medium 5265, 5315, 5317 and 5323

B – Agar plates medium 5006, 5318, 5322, 5337 with and without tyrosine