

Name: ***Micromonospora inyonensis***

Authors: Kroppenstedt et al. 2005

Status: New species

Literature: Int. J. Syst. Evol. Microbiol. 55:1743

Risk group: 1 (German classification)

Type strain: ATCC 27600, CIP 108951, DSM 46123,
KCC A-0188, JCM 3188

Author(s) Kroppenstedt, R. M., Mayilraj, S., Wink, J. M., Kallow, W.,
Schumann, P., Secondini, C., Stackebrandt, E.

Title Eight new species of the genus *Micromonospora*,
Micromonospora citrea sp. nov., *Micromonospora*
echinaurantiaca sp. nov., *Micromonospora echinofusca* sp.
nov., *Micromonospora fulviviridis* sp. nov., *Micromonospora*
inyonensis sp. nov., *Micromonospora peucetia* sp. nov.,
Micromonospora sagamiensis sp. nov., and *Micromonospora*
viridifaciens sp. nov.

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Genus: *Micromonospora* **FH 6403**

Species: *inyoensis*

Numbers in other collections: DSM 46123

Morphology:

	G	R
<u>ISP 2</u>	good	yellow olive
	A	SP
	none	none
	G	R
<u>ISP 3</u>	good	reed green
	A	SP
	None	none
	G	R
<u>ISP 4</u>	good	copper brown
	A	SP
	None	none
	G	R
<u>ISP 5</u>	sparse	colourless
	A	SP
	None	none
	G	R
<u>ISP 6</u>	sparse	broom yellow
	A	SP
	none	broom yellow
	G	R
<u>ISP 7</u>	sparse	dahlia yellow
	A	SP
	none	dahlia yellow

Melanoid pigment: (+) (+) (+) -

NaCl resistance: %

Lysozyme resistance:

pH: Value- Optimum-

Temperature : Value- Optimum- °C

Carbon utilization:

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

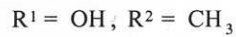
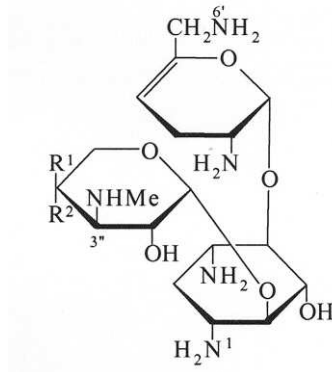
Enzymes:

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

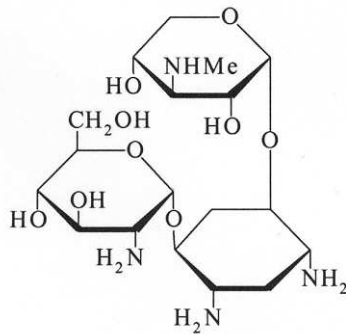
Comments:

Secondary metabolite from *Micromonospora inyoensis*

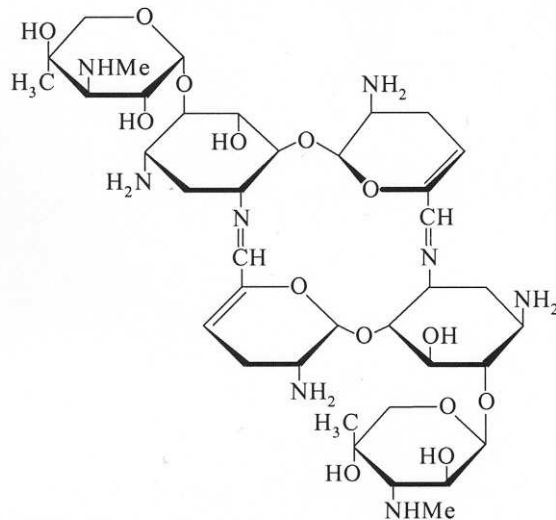
Sisomicin, a aminoglycoside antibiotic, with broad spectrum activity



Mutamycin 2, aminoglycoside antibiotic



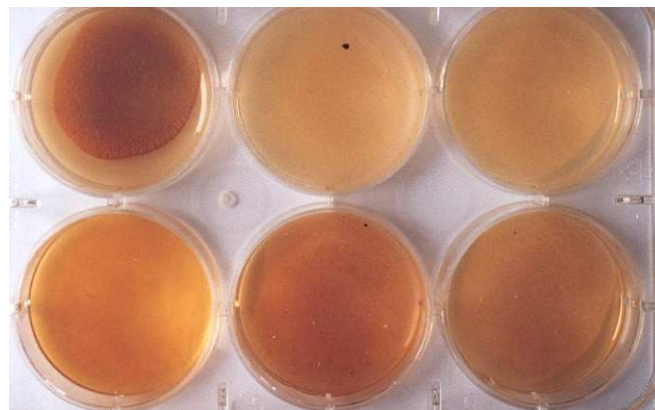
Antibiotic 66-40C, dimeric aminoglycoside antibiotic





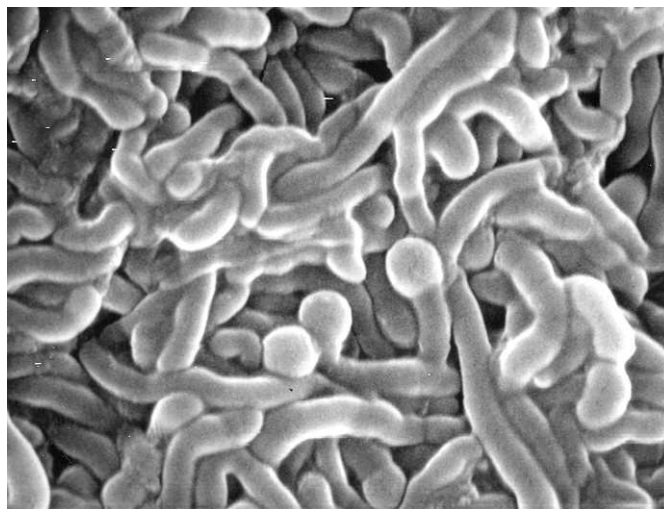
Micromonospora inyoensis

A and B - Agar plates media 5006, 5265 and 5315



Micromonospora inyoensis

C and D – Microplate with ISP and melanin media



E - Single spores in SEM (x 10.000)

