

Name: ***Streptomyces mashuensis***

Authors: (Sawazaki et al. 1955) Witt and Stackebrandt 1991

Status: New Combination

Reference(s): Int. J. Syst. Bacteriol. 41:456 (validation list)

Risk group: 1 (German classification)

Type strain: ATCC 23934, CBS 918.68, IFO 12888, IMET 42941, ISP 5221, RIA 1165, DSM 40221

Synonym(s): *Streptomyces kishiwadensis* (heterotypic synonym)  
*Streptoverticillium mashuense* (basonym)

Author(s) Sawazaki, T., Susuki, S., Nakamura, G., Kawasaki, M., Yamashita, S., Isono, K., Anzai, K., Serizawa, Y., Sekiyama, Y.

Title Streptomycin production by a new strain, *Streptomyces mashuensis*.

Journal J. Antibiot. (Tokyo) Ser. A

Volume 8

Page(s) 44-47

Year 1955

**Genus:** *Streptomyces*

FH 2028

**Species:** *mashuensis*

**Numbers in other collections:** IMET 42941

Morphology:

	G	R
<u>ISP 2</u>	good	brown
	A	SP
	rose	none
	G	R
<u>ISP 3</u>	good	yellow
	A	SP
	brown red	none
	G	R
<u>ISP 4</u>	good	yellow
	A	SP
	brown red	none
	G	R
<u>ISP 5</u>	good	colorless
	A	SP
	brown red	none
	G	R
<u>ISP 6</u>	good	brown
	A	SP
	none	dark brown
	G	R
<u>ISP 7</u>	good	brown
	A	SP
	brown red	dark brown

Spore chains: Ve

Spore surface: smooth

Sporangia:

Fragmentation:

**Melanoid pigment:** + + + -

**NaCl resistance:** 2,5 %

**Lysozyme resistance:** 0,5 %

**pH:** Value- Optimum-

**Temperature :** Value- Optimum- 28 °C

**Carbon utilization:**

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

**Enzymes:**

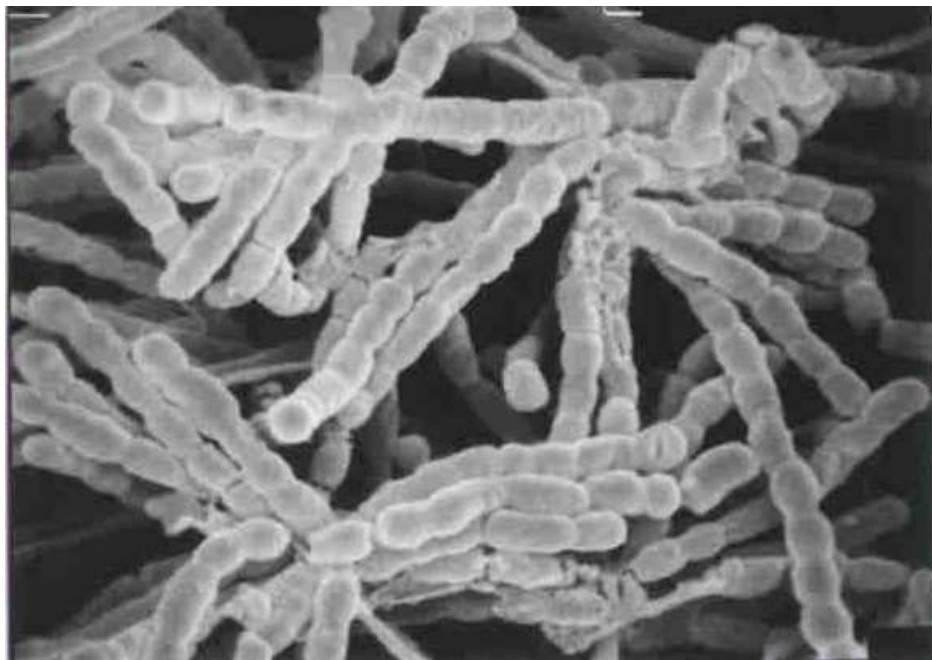
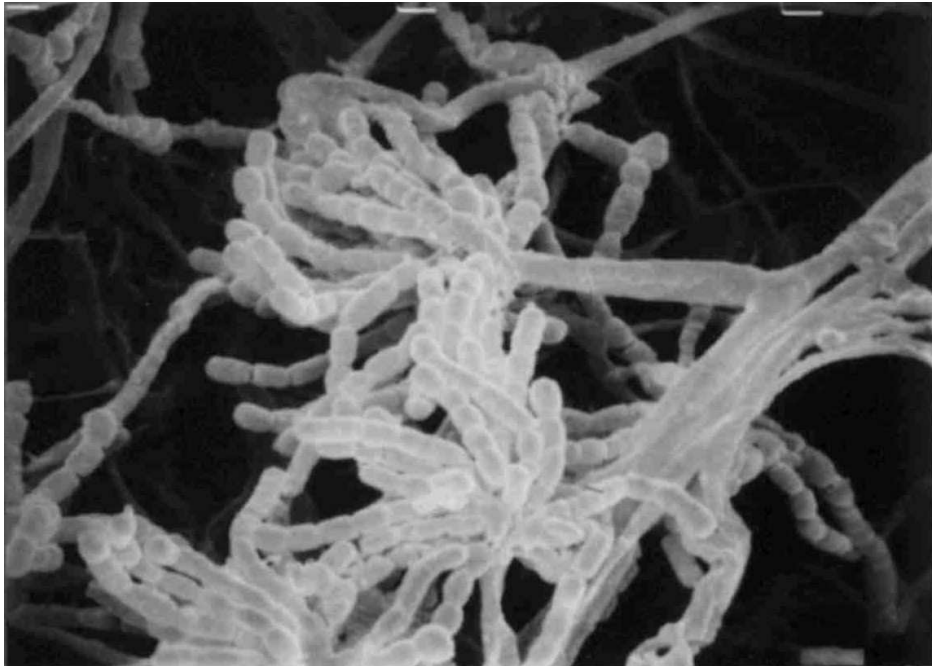
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
-	-	-	-	-	-	-	-	+	-	-

**Comments:**



***Streptomyces mashuensis***

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



***Streptomyces mashuensis***

Spore chain morphology and spore surface in SEM

C x 5.000 D x 7.500

Name: ***Streptomyces kishiwadensis***

Authors: (Shinobu and Kayamura 1964) Witt and Stackebrandt 1991

Status: New Combination

Reference(s): Int. J. Syst. Bacteriol. 41:456 (validation list)

Risk group: 1 (German classification)

Type strain: ATCC 25464, CBS 697.69, IFO 13052, ISP 5397, RIA 1244, DSM 40397

Synonym(s): *Streptomyces mashuensis*  
*Streptoverticillium mashuense*

**Genus:** *Streptomyces*

FH 2505

**Species:** *kishiwadensis*

**Numbers in other collections:** ATCC 25464

Morphology:

<u>ISP 2</u>	G	R
	good	redbrown
	A	SP
<u>ISP 3</u>	white	none
	G	R
	good	beige
<u>ISP 4</u>	A	SP
	rose	none
	G	R
<u>ISP 5</u>	good	beige
	A	SP
	white	none
<u>ISP 6</u>	G	R
	good	brown
	A	SP
<u>ISP 7</u>	none	brown
	G	R
	good	gray
	A	SP
	white	none

Spore chains: Ve

Spore surface: smooth

Sporangia:

Fragmentation:

**Melanoid pigment:** + - + -

**NaCl resistance:** 2,5 %

**Lysozyme resistance:** 1 %

**pH:** Value-

Optimum-

**Temperature :** Value-

Optimum- 28 °C

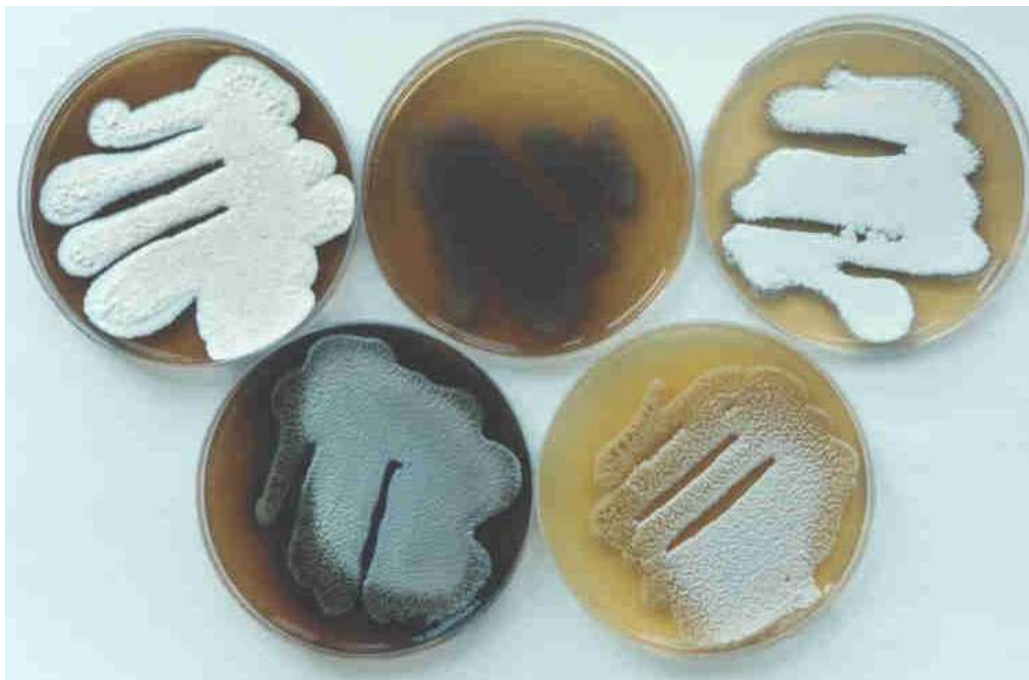
**Carbon utilization:**

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

**Enzymes:**

Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H <sub>2</sub> S
-	-	-	-	-	-	-	-	-	-	+

**Comments:**



***Streptomyces kishiwadensis***

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

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