

Name: ***Streptomyces hydrogenans***

Authors: Lindner et al. 1958

Status: Approved Lists

Reference(s): Int. J. Syst. Bacteriol. 30:388 (AL)

Risk group: 1 (German classification)

Type strain: ATCC 19631, CBS 776.72, IFO 13475,  
IMET 43766, ISP 5586, RIA 1436, DSM 40586

**Genus:** *Streptomyces*

FH 678

**Species:** *hydrogenans*

**Numbers in other collections:** ATCC 19631

Morphology:

	G	R
<u>ISP 2</u>	good	ivory
	A	SP
	grey	none
	G	R
<u>ISP 3</u>	good	ivory
	A	SP
	grey	none
	G	R
<u>ISP 4</u>	good	ivory
	A	SP
	grey	none
	G	R
<u>ISP 5</u>	good	yellow
	A	SP
	white/yellow	none
	G	R
<u>ISP 6</u>	A	SP
	G	R
<u>ISP 7</u>	A	SP

Spore chains: RF

Spore surface: smooth

Sporangia:

Fragmentation: in aerial mycelium

**Melanoid pigment:** -

**NaCl resistance:** 5%

**Lysozyme resistance:** 0,1%

**pH:** Value-

Optimum-

**Temperature :** Value-

Optimum- 30°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
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**Comments:**



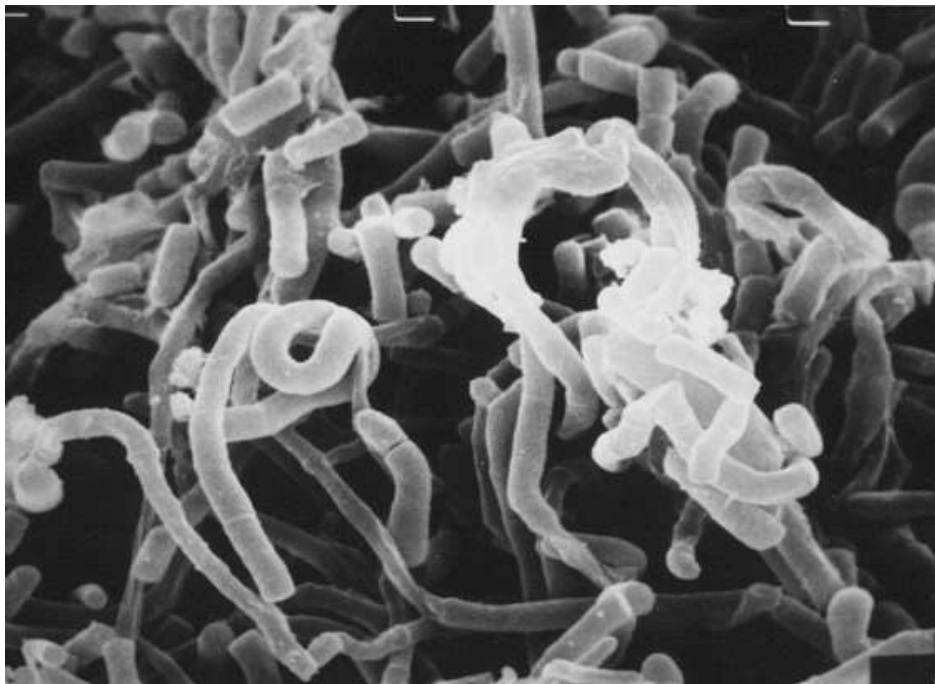
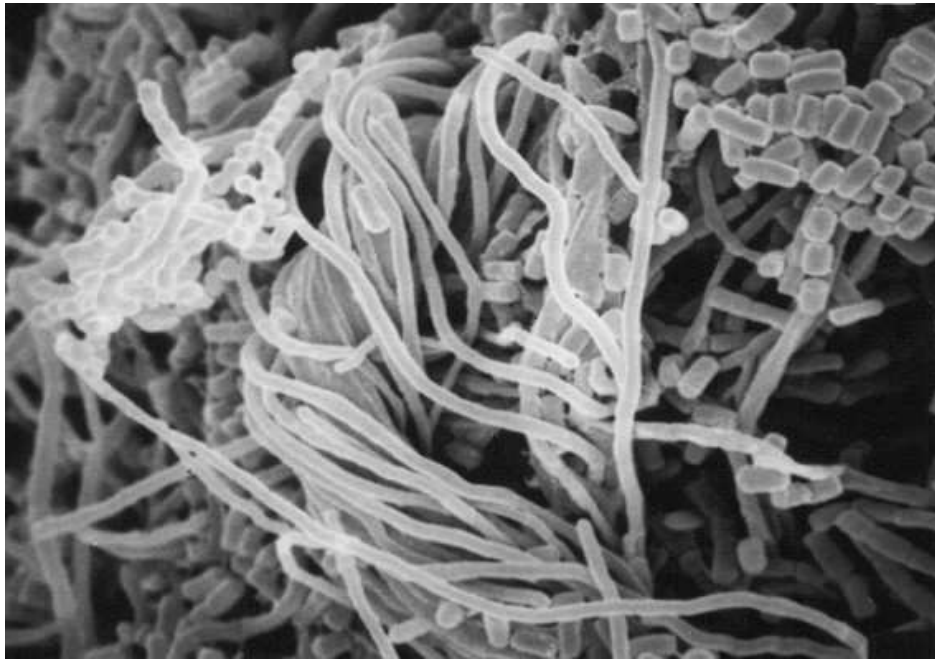
***Streptomyces hydrogenans***

A and B – Agar plates medium 5006, 5265 and 5315



***Streptomyces hydrogenans***

C and D – Microplate with ISP- and melanin media



***Streptomyces hydrogenans***

Spore chain morphology and spore surface in SEM

E x 3.500 F x 5.000