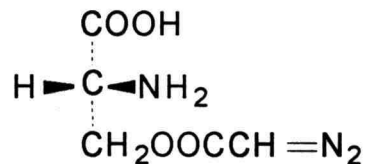


Name:	<b><i>Streptomyces fragilis</i></b>
Authors:	Anderson et al. 1956
Status:	Approved Lists
Reference(s):	Int. J. Syst. Bacteriol. 30:382 (AL)
Risk group:	1 (German classification)
Type strain:	IMET 43575, NRRL 2424, DSM 40044

### Secondary metabolites from *Streptomyces fragilis*

Azaserine, amino acid antibiotic, glutamine antagonist which inhibits purine biosynthesis, antifungal and antineoplastic agent



**Genus:** *Streptomyces*

FH 1990

**Species:** *fragilis*

**Numbers in other collections:** IMET 43575

Morphology:

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

Spore chains: RAb

Spore surface: smooth

Sporangia:

Fragmentation:

**Melanoid pigment:** - - - -

**NaCl resistance:**

**Lysozyme resistance:**

**pH:** Value- Optimum-

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

**Carbon utilization:**

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

**Enzymes:**

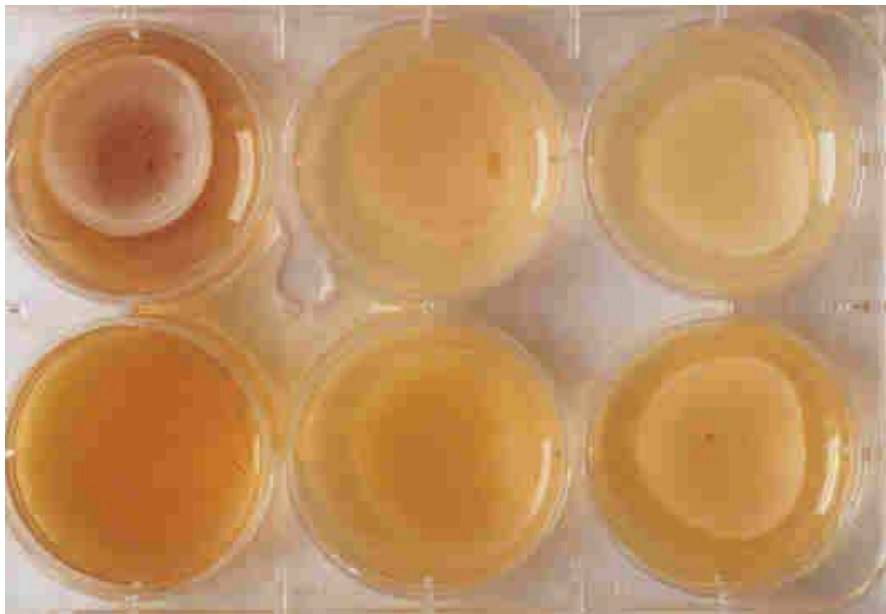
Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
+	-	-	-	+	+	-	-	-	-	-

**Comments**



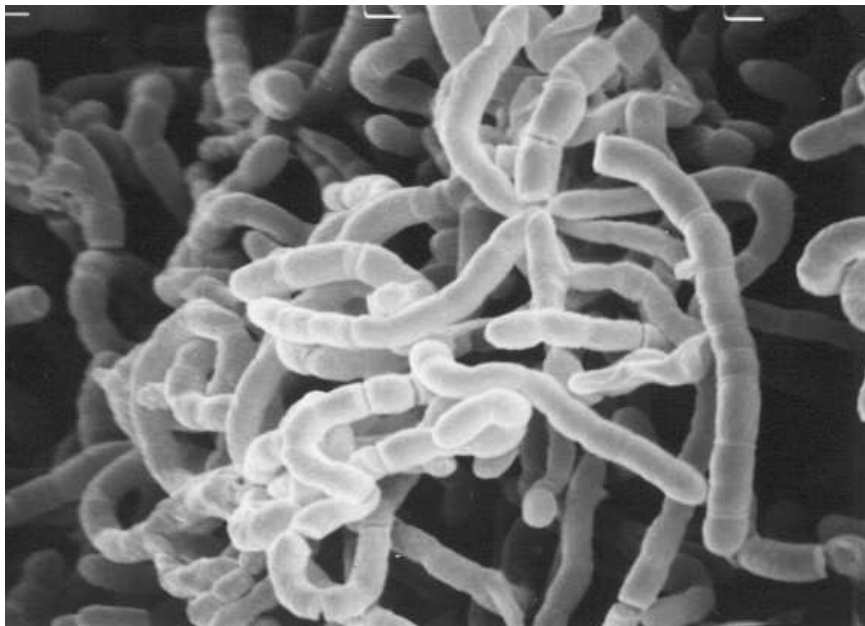
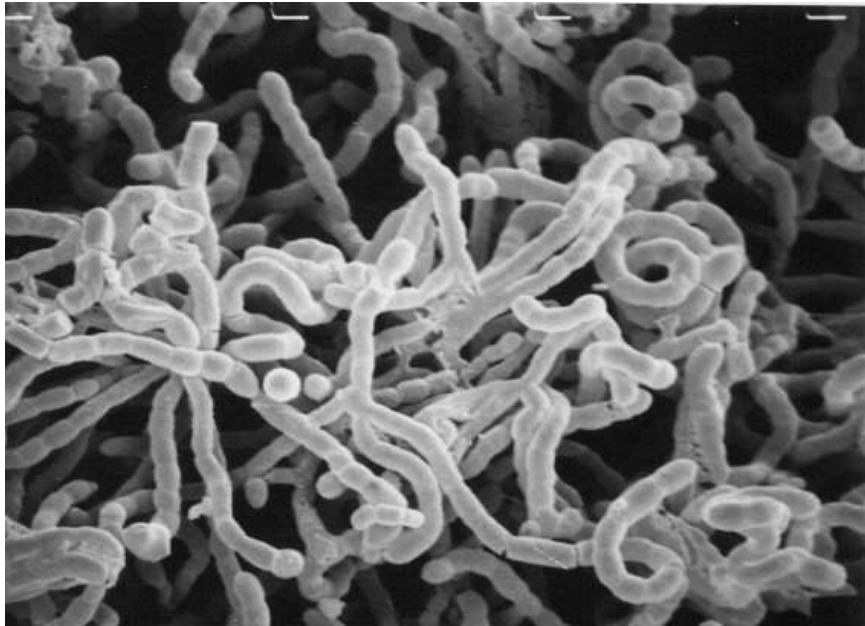
***Streptomyces fragilis***

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



***Streptomyces fragilis***

C and D – Microplate with ISP- and melanin media



***Streptomyces fragilis***

Spore chain morphology and spore surface in SEM

E x 3.500 F x 5.000