

Name: ***Actinopolyspora halophila***
Authors: Gochnauer et al. 1975
Status: Approved Lists
Literature: Int. J. Syst. Bacteriol. 30:244 (AL)
Risk group: 1 (German classification)
Type strain: ATCC 27976, DSM 43834

Lit. Gochnauer M. D., G. G. Leppard, P. Komaratat, M. Kates, T. Novitsky and D. J. Kushner. 1975
Isolation and characterization of *Actinopolyspora halophila*, gen. nov.sp. nov., an extremely halophilic actinomycete.
Can. J. Microbiol. 21: 1500-1511

Genus: *Actinopolyspora*

FH 2388

Species: *halophila*

Numbers in other collections: ATCC 27976

Morphology:

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

Spore chains:

Spore surface: smooth

Sporangia:

Fragmentation:

Melanoid pigment: - - - -

NaCl resistance: more than 10 %

Lysozyme resistance:

pH: Value- Optimum-

Temperature : Value- Optimum- 37°C

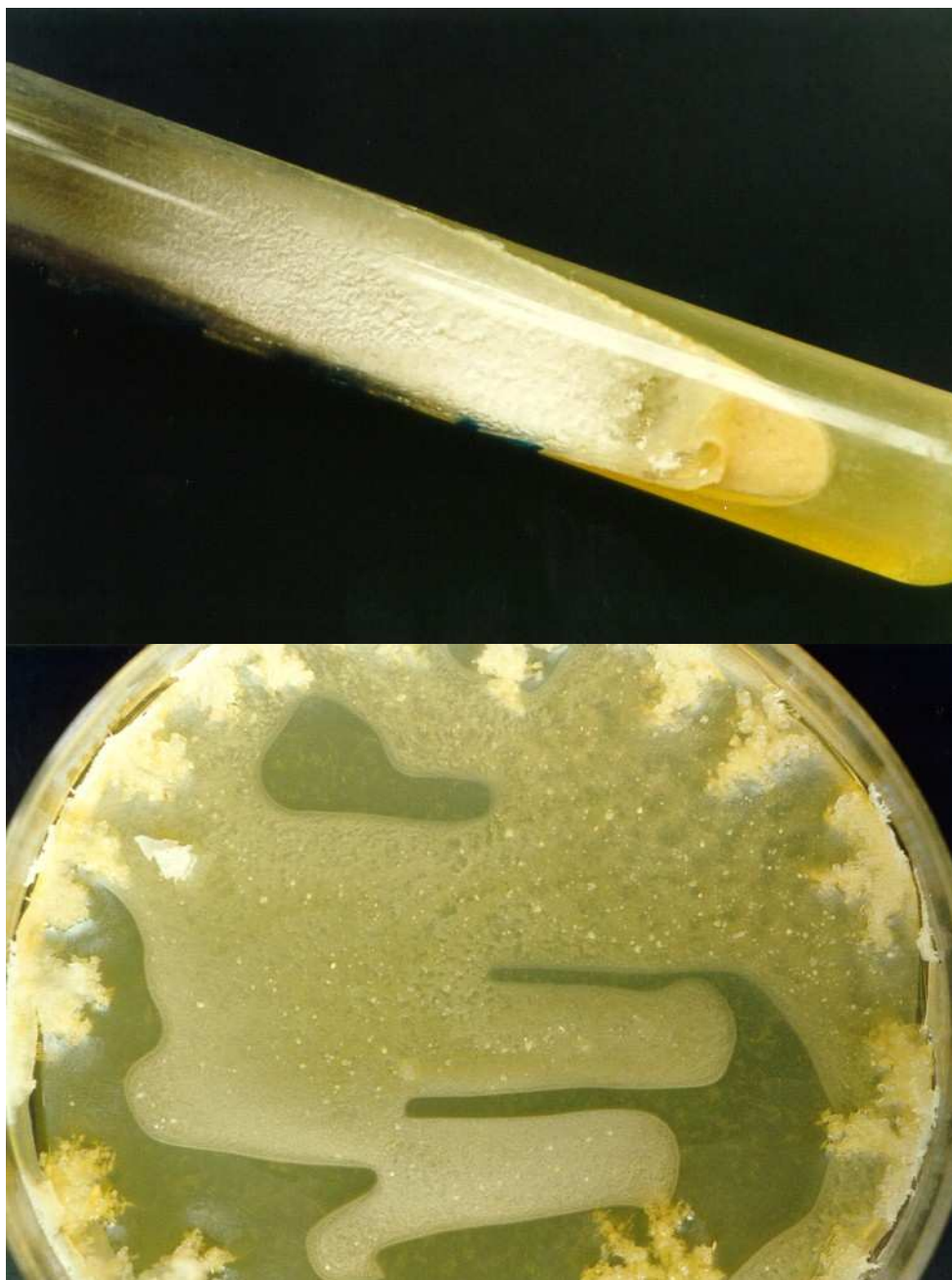
Carbon utilization:

Glu Ara Suc Xyl Ino Man Fru Rha Raf Cel
no growth possible

Enzymes:

Gel Cit Ure Arg Onp Trp Lys Odc VP Ind H₂S
no test possible

Comments: growth only on DSM 549 agar with 10 % sodium chloride



Actinopolyspora halophila

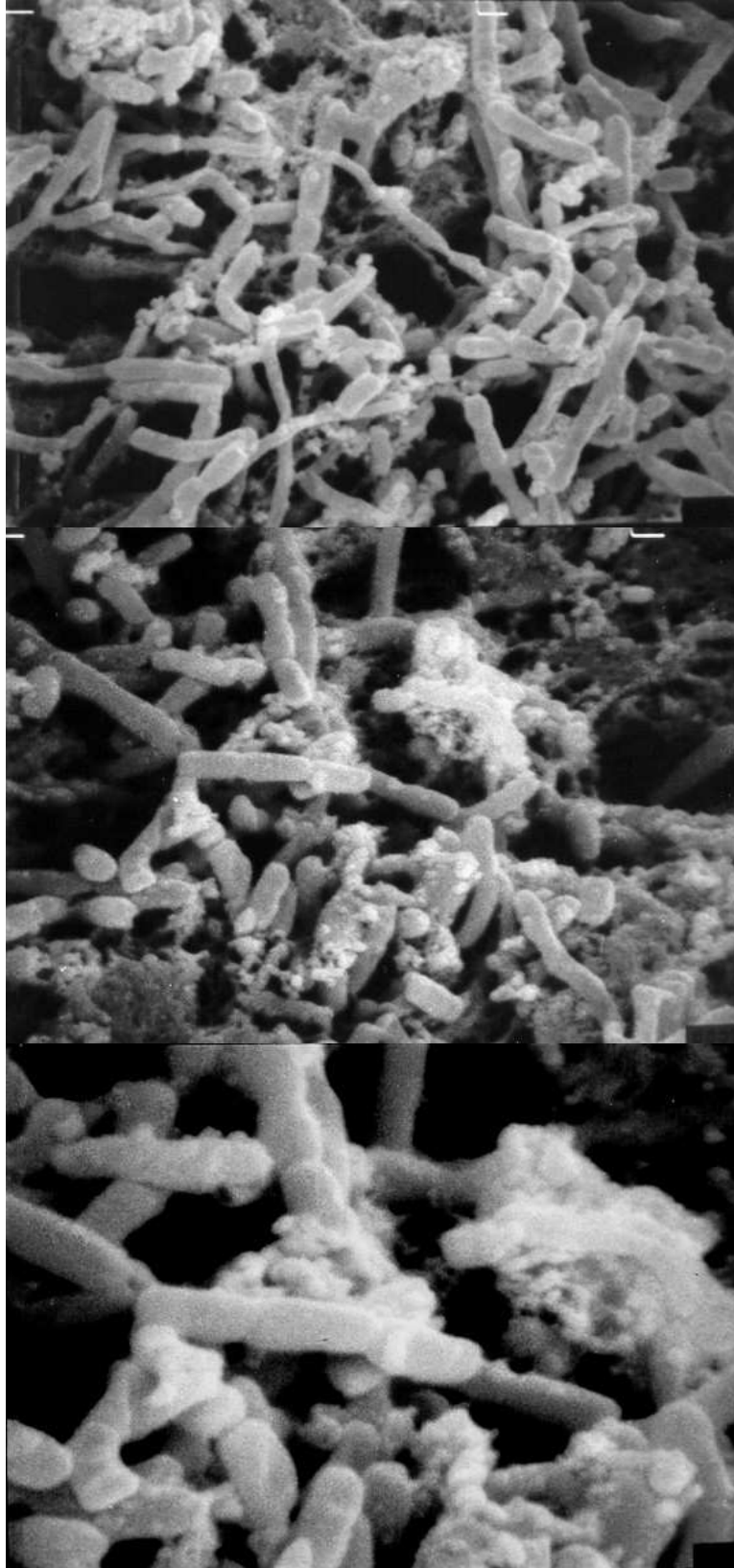
A – Slant with DSM 549 agar containing 10 % sodium chloride

B – Agar plate with medium like A

Medium 549: CM + YE MEDIUM

Casamino acids Difco (vitamin free)	7.5	g
Yeast extract	10.0	g
MgSO ₄ x 7 H ₂ O	20.0	g
Na ₃ Citrat	3.0	g
KCl	2.0	g
NaCl	200.0	g
Fe [*]	10.0	ppm
Agar	15.0	g
Distilled water	1000.0	ml
pH 7.4 (NaOH)		

* Prepare 4.98% FeSO₄ x 7 H₂O (= 10 g Fe in 1l 0.001 M HCl); add 1 ml per liter medium.



Actinopolyspora halophila

Spore chains with smooth spores in SEM

C x 7.500 D x 10.000 E x 15.000