

Class

Actinobacteria

Subclass

Actinobacteridae

Order

Actinomycetales

Suborder

Streptomycineae

Family

Streptomycetaceae

Genus

Streptacidiphilus

Genus Identity Card

Genus	<i>Streptacidiphilus</i>
Wall chemotype	LL-DAP (type I)
Whole cell sugar pattern	Galactose, rhamnose
Fatty acid pattern	C 16:0, iso C 17:0, anteiso C 17:0
Major menaquinone (MK)	-9(H ₆), 9(H ₈)
Phospholipidtype	diphosphatidylglycerol, phosphatidylethanolamine, phosphatidylinositol, phosphatidylinositol- mannoside
Mol% G+C of DNA	70-72
Morphology	vegetative hyphae produce extensively branched mycelium that rarely fragments, aerial mycelium forms chains of spores
Type species	<i>Streptacidiphilus albus</i>

Reference:

Kim, S.B., J. Lonsdale, C-N. Seong and M. Goodfellow. 2003
Streptacidiphilus gen. nov., acidophilic actinomycetes with
wall chemotype I and emendation of the family
Streptomycetaceae (Waksman and Henrici (1943)^{AL}) emend.
Rainey et al. 1997.
Antonie van Leeuwenhoek, 83: 107-116

Name: STREPTACIDIPHILUS
Authors: Kim et al. 2003
Status: New Genus
Type species: *S. albus*
Literature: Int. J. Syst. Bacteriol. 53:1219 (validation list)

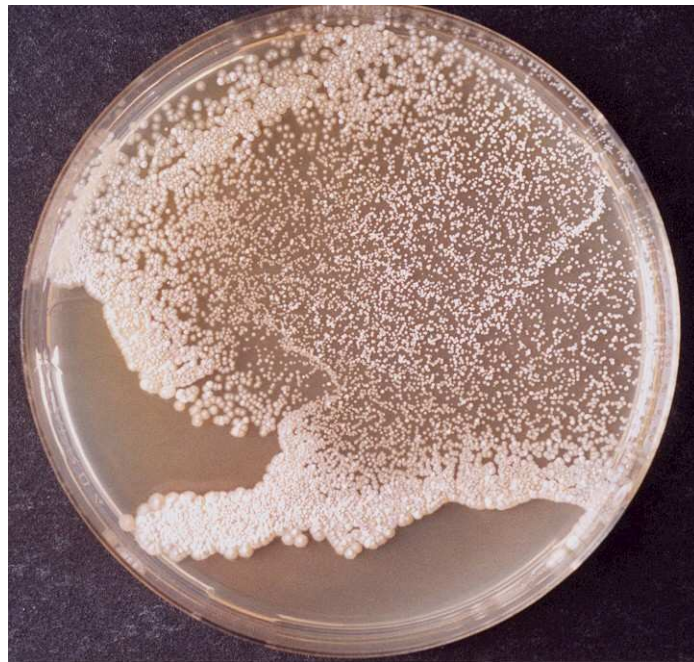
Name: *Streptacidiphilus albus* (**Type species**)
Authors: Kim et al. 2003
Status: New Species
Literature: Int. J. Syst. Bacteriol. 53:1219 (validation list)
Risk group: 1 (German classification)
Type strain: DSM 41753, JL83, KCTC 9910

Name: *Streptacidiphilus carbonis*
Authors: Kim et al. 2003
Status: New Species
Literature: Int. J. Syst. Bacteriol. 53:1219 (validation list)
Risk group: 1 (German classification)
Type strain: DSM 41754, JL415, KCTC 9912

Name: *Streptacidiphilus jiangxiensis*
Authors: Huang et al. 2005
Status: New Species
Literature: Int. J. Syst. Evol. Microbiol. 55:1744 (validation list)
Risk group: 1 (German classification)
Type strain: 33214, CGMCC 4.1857, JCM 12277

Name: *Streptacidiphilus neutrinimicus*
Authors: Kim et al. 2003
Status: New Species
Literature: Int. J. Syst. Bacteriol. 53:1219 (validation list)
Risk group: 1 (German classification)
Type strain: DSM 41755, JL206, KCTC 9911

<u>Genus:</u>	<i>Streptacidiphilus</i>		FH 6405							
<u>Species:</u>	<i>albus</i>									
<u>Numbers in other collections:</u>	DSM 41753									
<u>Morphology:</u>										
<u>ISP 2</u>	G	R								
	good	sand yellow								
	A	SP								
	cream	none								
<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								
<u>Melanoid pigment:</u> - - - -										
<u>NaCl resistance:</u> %										
<u>Lysozyme resistance:</u>										
<u>pH:</u>	Value-		Optimum-							
<u>Temperature :</u>	Value-		Optimum- °C							
<u>Carbon utilization:</u>										
	Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
						nd.				
<u>Enzymes:</u>										
	2	3	4	5	6	7	8	9	10	11
	12	13	14	15	16	17	18	19	20	
<u>Comments:</u>										



Streptacidiphilus albus

A and B – Growth on medium 5265