

Class

*Actinobacteria*

Subclass

*Actinobacteridae*

Order

*Actinomycetales*

Suborder

*Streptosporangineae*

Family

*Streptosporangiaceae*

Genus

*Planotetraspora*

## Genus Identity Card

<b>Genus</b>	<b><i>Planotetraspora</i></b>
Wall chemotype	glutamic acid, alanine, meso-DAP (type III)
Whole cell sugar pattern	madurose, glucose, 3-O-methylmannose, rhamnose, galactose
Fatty acid pattern	10 methyl C 18:0,
Major menaquinone (MK)	-9(H <sub>4</sub> )
Phospholipidtype	phosphatidylethanolamine
Mol% G+C of DNA	71
Morphology	non-acid-fast and aerobic, with branching hyphae, non-fragmentary substrate mycelium, long cylindrical sporangia at the end of short sporangiophores an aerial hyphae, with each sporangium containing four spores in a single row, spores are short cylindrical, short rod or oval in shape and may exhibit motility
Type species	<i>Planotetraspora mira</i>

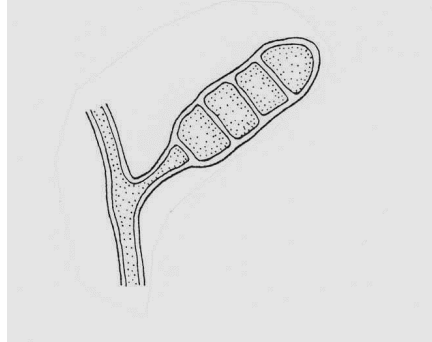
Name: PLANOTETRASPORA  
Authors: Runmao et al. 1993 emend. Tamura and Sakane 2004  
Status: New Genus  
Type species: *P. mira*  
Literature: Int. J. Syst. Bacteriol. 43:468

Name: ***Planotetraspora mira* (Type species)**  
Authors: Runmao et al. 1993  
Status: New Species  
Literature: Int. J. Syst. Bacteriol. 43:468  
Risk group: 1 (German classification)  
Type strain: DSM 44359, IFO 15435, NA9211028, SIIA9201

Name: *Planotetraspora silvatica*  
Authors: Tamura and Sakane 2004  
Status: New Species  
Literature: Int. J. Syst. Evol. Microbiol. 54:2056  
Risk group: 1 (German classification)  
Type strain: DSM 44746, NBRC 100141, TT 00-51

Author(s) Runmao, H., Guizhen, W., Junying, L.  
Title A new genus of actinomycetes, *Planotetraspora* gen. nov.  
Journal Int. J. Syst. Bacteriol.  
Volume 43  
Page(s) 468-470  
Year 1993

Author(s) Tamura, T., Sakane, T.  
Title *Planotetraspora silvatica* sp. nov. and emended description of the genus *Planotetraspora*.  
Journal Int. J. Syst. Evol. Microbiol.  
Volume 54  
Page(s) 2053-2056  
Year 2004



**Genus:** *Planotetraspora*

**FH 2870**

**Species:** *mira*

**Numbers in other collections:** IFO 15435

Morphology:

<u>ISP 2</u>	G sparse A -	R beige SP -
<u>ISP 3</u>	G sparse A -	R beige SP -
<u>ISP 4</u>	G good A -	R beige SP -
<u>ISP 5</u>	G good A -	R beige SP -
<u>ISP 6</u>	G sparse A -	R beige SP -
<u>ISP 7</u>	G good A -	R beige SP -

Spore chains:

Spore surface:

Sporangia:

Fragmentation:

**Melanoid pigment:** - - - -

**NaCl resistance:** 2.5 %

**Lysozyme resistance:**

**pH:** Value-

Optimum-

**Temperature :** Value-

Optimum-

**Carbon utilization:**

Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
+	(+)	+	(+)	+	+	+	+	+	+

**Enzymes:**

Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
-	+	-	-	-	-	-	-	+	-	-
2+	3-	4+	5-	6+	7+	8-	9+	10-	11+	
12+	13-	14-	15-	16+	17+	18+	19+	20-		

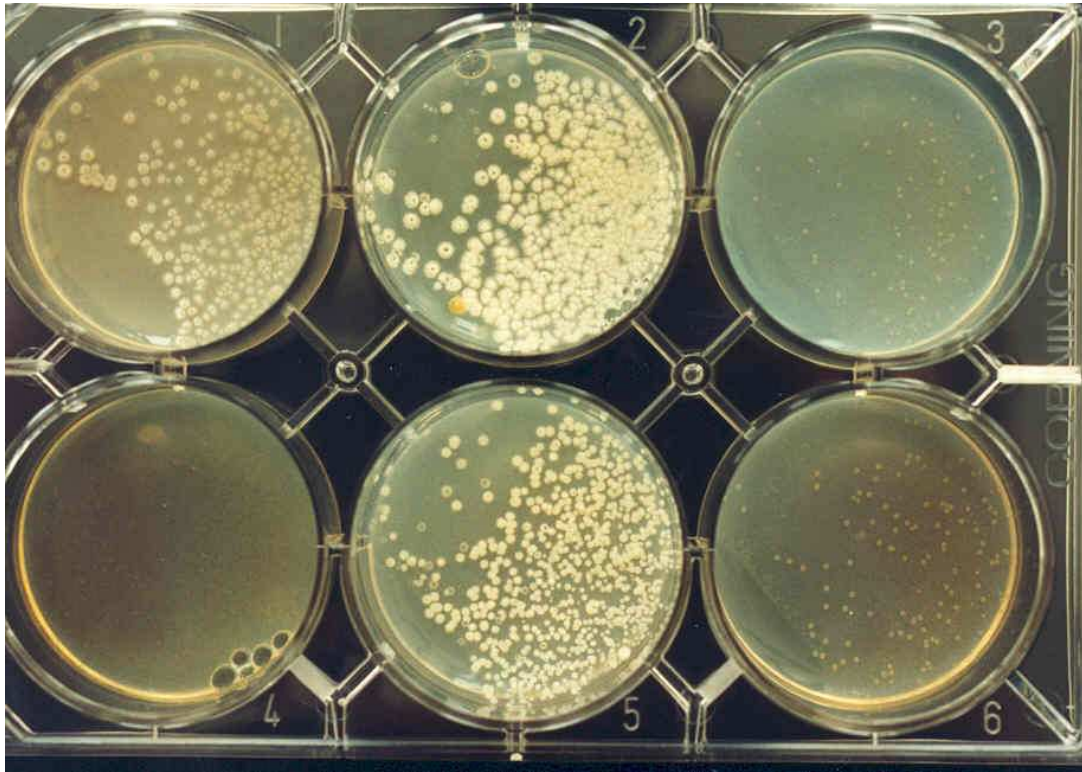
**Comments:** Good growth on 5006, aerial mycelium only on carbon utilization medium.





***Planotetraspora mira***

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



***Planotetraspora mira***

C – Microplate with ISP- and melanin media