

Genus ***Actinotalea***
Species ***fermentans***
Subspecies
Author Yi et al. 2007 (Bagnara et al. 1985)

Reclassification *Cellulomonas fermentans*
Status comb. nov.

Type spesies ATCC 43279, DSM 3133

Hazard group 1

Author(s) Bagnara, C., Toci, R., Gaudin, C., Belaich, J. P.
Title Isolation and characterization of a cellulolytic microorganism,
Cellulomonas fermentans sp. nov.
Journal Int. J. Syst. Bacteriol.
Volume 35
Page(s) 502-507
Year 1985

Author(s) Yi, H., Schumann, P, Chun, J.
Title *Demquina aestuarii* gen. nov., sp. Nov., a novel actinomycete
of the suborden *Micrococcineae*, and reclassification of
Cellulomonas fermentans Bagnara et al. 1985 as *Actinotalea*
fermentans gen. nov., comb. nov.
Journal Int. J. Syst. Evol. Microbiol.
Volume 57
Page(s) 151-156
Year 2007

Genus: *Cellulomonas*

FH 2742

Species: *fermentans*

Numbers in other collections: ATCC 43279

Morphology:

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

NaCl resistance: 2.5%

Temperature: Value- °C Optimum- 28°C

Carbon utilization:

Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
not grown									

Enzymes:

Api 20E	Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S	
-	-	-	-	-	v	-	-	-	v	-	-	
ApiZym	2	3	4	5	6	7	8	9	10	11	12	
-	+	+	-	+	-	-	-	-	-	-	-	
	13	14	15	16	17	18	19	20				
-	-	-	-	-	-	+	-	-				
ApiCoryne		Nit	Pyz	Pyr	Pal	βGur	βGal	αGlu	βNag	Esc	Ure	Gel
-	+	+	-	+	-	-	-	-	-	-	-	-
	Glu	Rib	Xyl	Man	Mal	Lac	Sac	Glyg				
-	-	-	-	-	-	+	-	-				

Comments:



Cellulomonas fermentans

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