

Genus *Arthrobacter*  
Species *mysorens*  
Subspecies  
Author Nand and Rao 1972

Reclassification  
Status valid

Type species DSM, 12798, ATCC 33408, NCIB 10583

Hazard group 1

Author(s) Nand, K., Rao, D. V.  
Journal Zentralbl. Bakteriол. Hyg. II Abt.  
Volume 127  
Page(s) 324-331  
Year 1972

#### Fatty acid pattern

|        |         |      |
|--------|---------|------|
| 14 : 0 | Iso     | 4,0  |
| 15 : 0 | Iso     | 11,0 |
| 15 : 0 | Anteiso | 54,0 |
| 16 : 0 | Iso     | 18,0 |
| 16 : 0 |         | 2,0  |
| 17 : 0 | Iso     | 1,0  |
| 17 : 0 | Anteiso | 9,0  |
| 18 : 0 |         | 1,5  |

**Genus:** *Arthrobacter*

**FH 2726**

**Species:** *mysorens*

**Numbers in other collections:** ATCC 33408

**Morphology:**

|              |      |              |
|--------------|------|--------------|
|              | G    | R            |
| <u>ISP 2</u> | good | sand yellow  |
|              | A    | SP           |
|              | none | none         |
|              | G    | R            |
| <u>ISP 3</u> | good | zinc yellow  |
|              | A    | SP           |
|              | none | none         |
|              | G    | R            |
| <u>ISP 4</u> | good | ivory        |
|              | A    | SP           |
|              | none | none         |
|              | G    | R            |
| <u>ISP 5</u> | good | colorless    |
|              | A    | SP           |
|              | none | none         |
|              | G    | R            |
| <u>ISP 6</u> | good | honey yellow |
|              | A    | SP           |
|              | none | none         |
|              | G    | R            |
| <u>ISP 7</u> | good | ivory        |
|              | A    | SP           |
|              | none | none         |

**NaCl resistance:** 7.5%

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

**Carbon utilization:**

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

**Enzymes:**

|           |     |     |     |     |     |      |      |      |      |     |     |     |
|-----------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|
| Api 20E   | Gel | Cit | Ure | Arg | Onp | Trp  | Lys  | Odc  | VP   | Ind | H2S |     |
|           | +   | -   | -   | -   | -   | -    | -    | -    | +    | -   | -   |     |
| 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 |      |     |     |     |
|           | -   | -   | -   | +   | +   | -    | +    | -    |      |     |     |     |



***Arthrobacter mysorens***

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

C – Microplate with ISP- and melanin media