

|             |                           |   |
|-------------|---------------------------|---|
| Strain      |                           | DSM 42014   |
| Genus       |                           | <i>Streptomyces</i>   |
| Species     |                           | <i>sanyensis</i>  |
| Status      |                           |   |
| Risk group  |                           | L1  |
| Type strain |                           | 219820, CGMCC 4.5626  |
| Reference   |                           |   |
| Author      |                           | Sui, J. L., Xu, X. X., Qu, Z., Wang, H. L., Lin, H. P., Xie, Q. Y., Ruan, J. S., Hong, K. |
| Title       |                           | <i>Streptomyces sanyensis</i> sp. nov., isolated from mangrove sediment.                  |
| Journal     |                           | <i>Int J Syst Evol Microbiol</i>  |
| Volume      |                           | 61 ( Pt 7 )   |
| Page        |                           | 1632-1637   |
| Year        |                           | 2011  |
| Morphology  |                           |   |
| Agar        | ISP 2 - growth/G          | good  |
| Agar        | ISP 2 - colony color/R    | light ivory (1015)  |
| Agar        | ISP 2 - aerial mycelium/A | silk grey (7044) / stone grey (7030)  |
| Agar        | ISP 2 - soluble pigment/S | sand yellow (1002)  |
| Agar        | ISP 3 - G                 | good  |
| Agar        | ISP 3 - R                 | n. d.   |
| Agar        | ISP 3 - A                 | grey white (9002)   |
| Agar        | ISP 3 - S                 | none  |
| Agar        | ISP 4 - G                 | good  |
| Agar        | ISP 4 - R                 | n. d.   |
| Agar        | ISP 4 - A                 | stone grey (7030) / signal grey (7004)  |
| Agar        | ISP 4 - S                 | none  |
| Agar        | ISP 5 - G                 | good  |
| Agar        | ISP 5 - R                 | n. d.   |
| Agar        | ISP 5 - A                 | light grey (7035)   |
| Agar        | ISP 5 - S                 | none  |
| Agar        | ISP 6 - G                 | good  |
| Agar        | ISP 6 - R                 | beige grey (7006)   |
| Agar        | ISP 6 - A                 | none  |
| Agar        | ISP 6 - S                 | green brown (8000)  |
| Agar        | ISP 7 - G                 | good  |
| Agar        | ISP 7 - R                 | n. d.   |
| Agar        | ISP 7 - A                 | telegrey 4 (7047)   |
| Agar        | ISP 7 - S                 | none  |
| Agar        | suter with tyrosine - G   | good  |
| Agar        | suter with tyrosine - R   | sepia brown (8014)  |
| Agar        | suter with tyrosine - A   | silk grey (7044) / cream (9001)   |
| Agar        | suter with tyrosine - S   | ocher brown (8001)  |

|                           |                                |                     |
|---------------------------|--------------------------------|---------------------|
| Agar                      | suter without tyrosine - G     | good                |
| Agar                      | suter without tyrosine - R     | ivory (1014)        |
| Agar                      | suter without tyrosine - A     | signal white (9003) |
| Agar                      | suter without tyrosine - S     | none                |
|                           | Sporechains/Sporangia          |                     |
| Physiology                |                                |                     |
| Melanin                   |                                | +                   |
| pH                        | range                          |                     |
| pH                        | optimum                        |                     |
| temperature               | range                          |                     |
| temperature               | optimum                        |                     |
| sodium chloride tolerance |                                | 7,5% / 10%          |
| lysozyme tolerance        |                                |                     |
| use of carbohydrates      | glucose                        | +                   |
| use of carbohydrates      | arabinose                      | -                   |
| use of carbohydrates      | sucrose                        | -                   |
| use of carbohydrates      | xylose                         | -                   |
| use of carbohydrates      | inositol                       | -                   |
| use of carbohydrates      | mannose                        | -                   |
| use of carbohydrates      | fructose                       | -                   |
| use of carbohydrates      | rhamnose                       | -                   |
| use of carbohydrates      | raffinose                      | -                   |
| use of carbohydrates      | cellulose                      | -                   |
| Api zym                   | Phosphatase alkaline           | 5                   |
| Api zym                   | Esterase (C4)                  | 3                   |
| Api zym                   | Esterase Lipase (C8)           | 2                   |
| Api zym                   | Lipase (C14)                   | 0                   |
| Api zym                   | Leucin arylamidase             | 5                   |
| Api zym                   | Valine arylamidase             | 3                   |
| Api zym                   | Cystine arylamidase            | 2                   |
| Api zym                   | Trypsin                        | 0                   |
| Api zym                   | Chymotrypsin                   | 0                   |
| Api zym                   | Phosphatase acid               | 4                   |
| Api zym                   | Naphtol-AS-BI-phosphohydrolase | 3                   |
| Api zym                   | alpha galactosidase            | 0                   |
| Api zym                   | beta galactosidase             | 0                   |
| Api zym                   | beta glucuronidase             | 0                   |
| Api zym                   | alpha glucosidase              | 4                   |
| Api zym                   | beta glucosidase               | 0                   |
| Api zym                   | N-acetyl-beta-glucoseamidase   | 0                   |
| Api zym                   | alpha mannosidase              | 0                   |
| Api zym                   | alpha fucosidase               | 0                   |
| Api coryne                | nitrate reduction              | -                   |
| Api coryne                | Pyraziamidase                  | -                   |

|            |                               |     |
|------------|-------------------------------|-----|
| Api coryne | Pyrrolidonyl arylamidase      | -   |
| Api coryne | Alkaline phosphatase          | +   |
| Api coryne | beta glucuronidase            | -   |
| Api coryne | beta galactosidase            | -   |
| Api coryne | alpha glucosidase             | +   |
| Api coryne | N-acetyl -beta glucoseamidase | -   |
| Api coryne | Esculin (beta glucosidase)    | -   |
| Api coryne | Urease                        | (+) |
| Api coryne | Gelatine(hydrolysis)          | +   |
| Api coryne | Glucose fermentation          | -   |
| Api coryne | Ribose fermentation           | -   |
| Api coryne | Xylose fermentation           | -   |
| Api coryne | Mannitol fermentation         | -   |
| Api coryne | Maltose fermentation          | -   |
| Api coryne | Lactose fermentation          | -   |
| Api coryne | Sucrose fermentation          | -   |
| Api coryne | Glycogen fermentation         | -   |

### Apicoryne



Abbildung 1: Apicoryne-Teststreifen mit Keim DSM 42014.

### Apizym



Abbildung 2: Apizym-Teststreifen mit Keim DSM 42014.

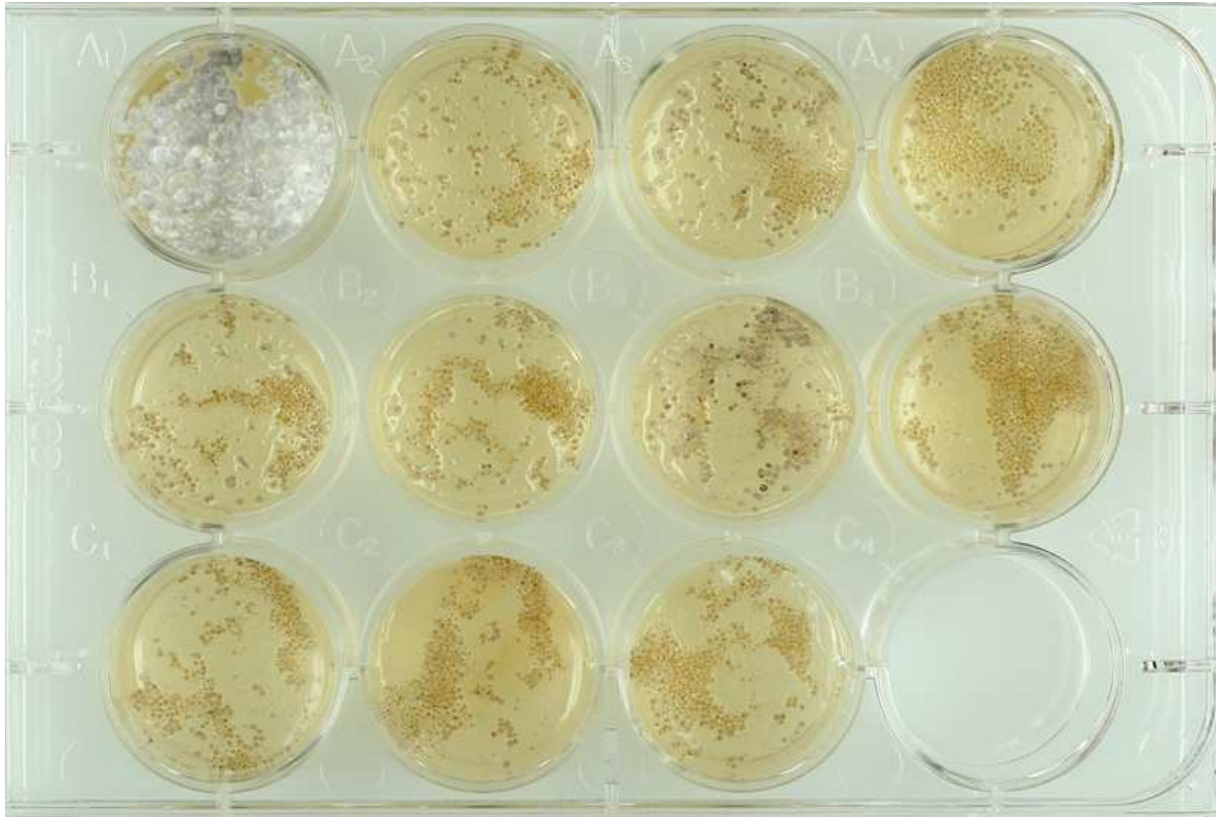
**Plates** (65, ISP2, ISP3, ISP4, ISP5, ISP7)



(ISP6, SSM+T, SSM-T)



**Carbon utilization test (from top left to bottom right: glucose, arabinose, sucrose, xylose, inositol, mannose, fructose, rhamnose, raffinose, cellulose)**



**Sodium chloride tolerance test (from top left to bottom right: 0%, 2,5%, 5%, 7,5%, 10%)**

