|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ***P. angustum* ATCC 259151** | ***P. damselae* ATCC 335391** | ***P. histaminum* JCM 89681** | ***P. leiognathi* ATCC 255211** | ***P. profundum* SS91** | ***P. profundum* DSJ41** | ***P. phosphoreum* ATCC 110401** | ***P. phosphoreum* 041042** | ***P. phosphoreum* ANT-22003** |
| N-acetyl-D-galactosamine | + | + | + | + | - | - | - | - | - |
| N-acetyl-D-glucosamine | + | + | + | + | + | - | + | + | + |
| L-arabinose | - | - | - | - | - | - | - | - | - |
| Cellobiose | - | + | + | - | + | - | - | - | - |
| D-fructose | + | + | + | + | + | - | + | + | + |
| D-galactose | + | + | + | + | + | + | - | + | + |
| -D-glucose | + | + | + | + | + | + | + | + | + |
| -D-lactose | - | - | - | - | - | - | - | + | - |
| Maltose | + | + | + | + | + | + | + | + | - |
| D-mannose | + | + | + | + | + | + | + | + | + |
| D-raffinose | - | - | - | - | - | - | - | - | - |
| L-rhamnose | - | - | - | - | - | - | - | - | - |
| Sucrose | + | - | - | - | - | - | - | - | - |
| D-trehalose | - | - | + | - | + | + | - | + | + |
| Turanose | + | + | + | + | - | - | - | - | - |
| Adonitol | - | - | - | - | - | - | - | ND | - |
| Myo-inositol | - | - | - | - | + | - | - | ND | - |
| D-mannitol | - | - | - | - | + | + | - | + | - |
| D-sorbitol | - | - | - | - | - | - | - | - | - |
| Glycerol | + | + | + | + | + | + | - | + | + |
| Glycogen | + | + | + | + | + | + | + | + | - |
| Tween 40 | - | + | - | - | + | + | + | + | - |
| Tween 80 | - | - | - | - | + | + | - | + | - |
| Indole production | - | - | - | - | + | + | - | ND | - |
| Glucose fermentation  | - | + | - | + | + | W+ | + | + | + |
| Catalase | - | + | + | - | + | + | + | ND | + |
| Oxidase | - | + | + | + | + | + | + | + | + |
| Nitrate reduction | - | + | + | + | + | + | + | ND | + |
| Arginine dihydrolase | + | + | + | + | + | + | + | ND | + |
|  |  |  |  |  |  |  |  |  |  |

1 Nogi Y, Masui N, Kato C (1998) *Photobacterium profundum* sp. nov., a new, moderately barophilic bacterial species isolated from a deep-sea sediment. Extremophiles 2: 1-7.

2 Deng H, He C, Zhou Z, Liu C, Tan K, et al. (2009) Isolation and pathogenicity of pathogens from skin ulceration disease and viscera ejection syndrome of the sea cucumber *Apostichopus japonicus*. Aquaculture 287: 18-27.

3 This study

+ Positive

- Negative

W weakly

ND not determined