|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Substract** | **1** | **2** | **3** | **4** |
| Acetate | **-** | **-** | **-** | **-** |
| Arabinose | **+** | **+** | **+** | **+** |
| Butyrate | **-** | **+** | **+** | **+** |
| Citrate | **+** | **-** | **+** | **+** |
| Formate | **-** | **-** | **-** | **-** |
| Fumarate | **+** | **+** | **+** | **+** |
| Galactose | **-** | **+** | **+** | **+** |
| Glucose | **-** | **+** | **+** | **+** |
| Glutamate | **-** | **+** | **+** | **+** |
| Glycerol | **-** | **-** | **+** | **+** |
| Lactate | **-** | **-** | **-** | **+** |
| Lactose | **-** | **-** | **-** | **+** |
| Lysine | **-** | **-** | **-** | **-** |
| Maltose | **+** | **+** | **+** | **+** |
| Mannitol | **+** | **+** | **+** | **+** |
| Mannose | **+** | **+** | **+** | **+** |
| Pyruvate | **-** | **+** | **+** | **+** |
| Sucrose | **+** | **+** | **+** | **+** |
| Threonine | **-** | **-** | **-** | **-** |
| Urea | **-** | **-** | **-** | **-** |
| Xylose | **-** | **-** | **-** | **-** |
| Yeast extract | **+** | **+** | **-** | **+** |

**Supplementary table S1.** Substrate utilization patterns for strain JG120-1T and type strains of the genus *Hoeflea.*

Strains: 1, JG120-1T; 2, *H. alexandrii* AM1V30T; 3, *H. phototrophica* DFL-43T; 4, *H. marina* LMG128T. Utilizations are scored as: +, positive reaction; -, negative reaction.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Enzyme** | **1** | **2** | **3** | **4** |
| Alkaline phosphate | **+** | **+** | **+** | **+** |
| Esterase (C4) | **+** | **+** | **+** | **+** |
| Esterase lipase (C8) | **+** | **+** | **+** | **+** |
| Lipase (C14) | **-** | **-** | **-** | **-** |
| Leucine arylamidase | **+** | **+** | **+** | **+** |
| Valine arylamidase | **+** | **+** | **+** | **+** |
| Crystine arylamidase | **+** | **+** | **+** | **+** |
| Trypsin | **-** | **-** | **+** | **+** |
| *α*-chymotrypsin | **-** | **-** | **+** | **-** |
| Acid phospatase | **-** | **+** | **+** | **-** |
| Phosphohydrolase | **-** | **+** | **-** | **+** |
| *α*-galactosidase | **+** | **-** | **-** | **-** |
| *β*-galactosidase | **+** | **-** | **+** | **+** |
| *β*-glucuronidase | **-** | **-** | **-** | **-** |
| *α*-glucosidase | **+** | **+** | **+** | **+** |
| *β*-glucosidase | **+** | **+** | **+** | **+** |
| *N- Acetyl-β-*glucosaminidase | **-** | **-** | **-** | **-** |
| *α*-mannosidase | **-** | **-** | **-** | **-** |
| *α*-fucosidase | **-** | **-** | **-** | **-** |

**Supplementary table S2.** Extracellular enzyme activity profiles (API ZYM) of strain JG120-1T and the type strains of the genus *Hoeflea.*

Strains: 1, JG120-1T; 2, *H. alexandrii* AM1V30T; 3, *H. phototrophica* DFL-43T; 4, *H. marina* LMG128T. Activities are scored as: +, positive reaction; -, negative reaction.

**Supplementary Table S3.** DNA–DNA hybridization values for strain JG120-1T and the reference species (from reciprocal analysis). ND, not determined.

|  |  |  |  |
| --- | --- | --- | --- |
| **Strain** | **DND-DND hybridization (%) with:\*** | | |
| **JG120-1T** | ***H. alexandrii* AM1V30T** | ***H. phototrophica* DFL-43T** |
| **JG120-1T** | 100 | 23.9±1.1 | 8.1±0.2 |
| ***H. alexandrii* AM1V30T** | 17.5±0.5 | 100 | ND |
| ***H. phototrophica* DFL-43T** | 12.4±0.2 | ND | 100 |

\*Values shown are mean±standard deviation.

**Supplementary figure legend**

**Supplementary Fig. S1**. Polar lipids of strain JG120-1T. PG, phosphatidylglycerol; PE, phosphatidylethanolamine; SQDG, sulfoquinovosyl diacylglycerol; PC, phosphatidylcholine; PME, phosphatidylmonomethylethanolamine.

**Supplementary Fig. S1.**

