**Table S9: Lag phase time (*λ*) of *Saccharomyces species* used in this study at different temperatures.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Species** | ***λ* (hours)** | | | | | |
| **12 °C** | **16°C** | **20 °C** | **25 °C** | **30 °C** | **37 °C** |
| *S. jurei* NCYC 3947T | 12.817  (0.528) | 11.309 (0.5) | 8.463 (0.130) | 4.548 (0.320) | 3.228 (0.145) | 0.371 (0.396) |
| *S. jurei* NCYC 3962 | 13.418  (0.782) | 10.201  (0.628) | 7.316 (0.307) | 3.489 (0.172) | 3.217 (0.128) | -0.295 (0.212) |
| *S. cerevisiae* | 22.394 (2.237) | 11.88 (0.447) | 8.026 (0.395) | 3.999 (0.414) | 3.864 (0.228) | 3.771 (0.937) |
| *S. paradoxus* | 21.293 (0.410) | 10.773 (0.35) | 7.806 (0.076) | 4.881 (0.170) | 3.538 (0.097) | -0.518 (0.071) |
| *S. mikatae* | 15.643 (0.317) | 10.528  (0.49) | 5.959 (0.193) | 3.476 (0.700) | 3.260 (0.056) | 1.590 (0.341) |
| *S. kudriavzevii* | 27.724 (0.668) | 17.829 (0.462) | 11.696 (0.247) | 10.171 (0.965) | 9.099 (0.242) | 0.000 |
| *S. arboricola* | 18.815 (0.293) | 13.074  (0.164) | 8.089 (0.361) | 5.714 (0.973) | 5.150 (0.396) | 0.000 |
| *S. eubayanus* | 24.987 (0.229) | 15.736  (0.098) | 10.471 (0.157) | 7.567 (0.288) | 7.225 (0.101) | 0.000 |
| *S. uvarum* | 25.904 (0.314) | 14.611 (0.396) | 8.420 (0.382) | 6.253 (0.913) | 5.365 (0.156) | 0.000 |
| *S. pastorianus* | 23.952 (1.058) | 10.421  (0.604) | 8.856 (0.761) | 7.671 (1.203) | 4.345 (1.484) | 0.000 |

**Table S10: Maximum growth rate (*µ*max ) of *Saccharomyces species* used in this study at different temperatures.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Species** | ***µ*max  (h-1)** | | | | | |
| **12 °C** | **16°C** | **20 °C** | **25 °C** | **30 °C** | **37 °C** |
| *S. jurei* NCYC 3947T | 0.038 (0.002) | 0.071  (0.002) | 0.104 (0.001) | 0.221 (0.005) | 0.145 (0.002) | 0.051 (0.008) |
| *S. jurei* NCYC 3962 | 0.036 (0.002) | 0.071  (0.004) | 0.100 (0.002) | 0.215 (0.015) | 0.255 (0.003) | 0.070 (0.006) |
| *S. cerevisiae* | 0.029 (0.001) | 0.052 (0.001) | 0.073 (0.002) | 0.170 (0.018) | 0.241 (0.010) | 0.184 (0.184) |
| *S. paradoxus* | 0.048 (0.001) | 0.063 (0.001) | 0.087 (0.001) | 0.176 (0.005) | 0.216 (0.002) | 0.054 (0.010) |
| *S. mikatae* | 0.045 (0.001) | 0.071  (0.002) | 0.096 (0.002) | 0.210 (0.011) | 0.261 (0.014) | 0.118 (0.011) |
| *S. kudriavzevii* | 0.055  (0.001) | 0.070 (0.002) | 0.088 (0.001) | 0.188 (0.020) | 0.133 (0.011) | 0.000 |
| *S. arboricola* | 0.044  (0.001) | 0.062 (0.0) | 0.084 (0.002) | 0.217 (0.028) | 0.116 (0.006) | 0.000 |
| *S. eubayanus* | 0.042 (0.000) | 0.073 (0.001) | 0.097 (0.002) | 0.198 (0.198) | 0.165 (0.002) | 0.000 |
| *S. uvarum* | 0.036 (0.000) | 0.061 (0.002) | 0.075 (0.002) | 0.169 (0.169) | 0.177 (0.002) | 0.000 |
| *S. pastorianus* | 0.036 (0.001) | 0.040 (0.001) | 0.065 (0.003) | 0.158 (0.220) | 0.086 (0.018) | 0.000 |

**Table S11: Maximum biomass (*A*max ) of *Saccharomyces species* used in this study at different temperatures.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Species** | ***A*max (OD)** | | | | | |
| **12 °C** | **16°C** | **20 °C** | **25 °C** | **30 °C** | **37 °C** |
| *S. jurei* NCYC 3947T | 1.312 (0.007) | 1.212 (0.007) | 1.205 (0.004) | 1.796 (0.031) | 1.482 (0.020) | 0.682 (0.293) |
| *S. jurei* NCYC 3962 | 1.224 (0.021) | 1.188 (0.010) | 1.192 (0.005) | 1.644 (0.067) | 1.608 (0.008) | 0.378 (0.019) |
| *S. cerevisiae* | 1.210 (0.018) | 1.182 (0.006) | 1.195 (0.007) | 1.620 (0.044) | 1.386 (0.023) | 1.360 (0.134) |
| *S. paradoxus* | 1.158 (0.009) | 1.174 (0.010) | 1.023 (0.009) | 1.324 (0.028) | 1.303 (0.022) | 0.183 (0.032) |
| *S. mikatae* | 1.252 (0.009) | 1.221 (0.008) | 1.208  (0.005) | 1.581 (0.051) | 1.553 (0.088) | 0.914 (0.285) |
| *S. kudriavzevii* | 1.173 (0.007) | 1.096 (0.002) | 1.027  (1.037) | 1.402 (0.031) | 1.173 (0.088) | 0.000 |
| *S. arboricola* | 1.263 (0.006) | 1.213 (0.015) | 1.219 (0.014) | 1.723 (0.088) | 1.326 (0.079) | 0.000 |
| *S. eubayanus* | 1.271  (0.011) | 1.207 (0.011) | 1.196  (0.009) | 1.669 (0.049) | 1.514 (0.012) | 0.000 |
| *S. uvarum* | 1.287 (0.010) | 1.241 (0.008) | 1.206  (0.010) | 1.714 (0.006) | 1.589 (0.013) | 0.000 |
| *S. pastorianus* | 1.043 (0.031) | 0.975 (0.053) | 0.976  (0.073) | 1.117 (0.220) | 1.145 (0.245) | 0.000 |