

| Strains | Time (h) | Glucose | Xylose | Xylitol | Glycerol | Acetate | Ethanol |
|---------|----------|--------------|--------------|-------------|-------------|--------------|--------------|
| SS36 | Input | 83.35 ± 2.09 | 35.31 ± 0.99 | n.d. | n.d. | n.d. | n.d. |
| | 0 | 81.93 ± 2.24 | 35.03 ± 1.15 | n.d. | n.d. | n.d. | 0.44 ± 0.38 |
| | 1 | 74.48 ± 1.68 | 34.26 ± 0.75 | 0.19 ± 0.33 | 1.04 ± 0.22 | n.d. | 3.48 ± 0.81 |
| | 3 | 53.18 ± 5.31 | 33.35 ± 0.49 | 0.21 ± 0.36 | 2.48 ± 0.28 | n.d. | 12.34 ± 1.96 |
| | 6 | 2.92 ± 3.66 | 32.66 ± 1.25 | 0.53 ± 0.48 | 4.58 ± 0.41 | 0.84 ± 0.19 | 34.95 ± 2.40 |
| | 12 | n.d. | 32.59 ± 0.93 | 0.77 ± 0.17 | 4.74 ± 0.23 | 0.90 ± 0.19 | 36.12 ± 1.04 |
| | 24 | n.d. | 35.04 ± 1.25 | 0.90 ± 0.19 | 5.12 ± 0.33 | 0.99 ± 0.20 | 36.99 ± 0.53 |
| | 36 | n.d. | 34.55 ± 1.10 | 0.99 ± 0.17 | 5.09 ± 0.31 | 1.05 ± 0.19 | 37.73 ± 0.61 |
| | 48 | n.d. | 33.41 ± 0.95 | 1.07 ± 0.19 | 4.94 ± 0.33 | 1.12 ± 0.19 | 37.79 ± 0.60 |
| | 60 | n.d. | 32.70 ± 1.21 | 1.16 ± 0.21 | 4.87 ± 0.35 | 1.19 ± 0.21 | 37.41 ± 0.67 |
| 72 | n.d. | 31.80 ± 1.16 | 1.24 ± 0.21 | 4.77 ± 0.32 | 1.26 ± 0.21 | 37.25 ± 1.02 | |
| SS37 | Input | 83.35 ± 2.09 | 35.31 ± 0.99 | n.d. | n.d. | n.d. | n.d. |
| | 0 | 82.32 ± 2.21 | 35.11 ± 1.24 | n.d. | n.d. | n.d. | 0.20 ± 0.35 |
| | 1 | 75.15 ± 1.75 | 34.35 ± 1.28 | 0.19 ± 0.33 | 1.01 ± 0.27 | n.d. | 3.26 ± 0.86 |
| | 3 | 54.87 ± 4.56 | 33.52 ± 1.66 | 0.41 ± 0.37 | 2.43 ± 0.34 | n.d. | 11.72 ± 1.56 |
| | 6 | 3.55 ± 4.54 | 33.19 ± 1.25 | 0.74 ± 0.19 | 4.67 ± 0.46 | 0.83 ± 0.20 | 35.03 ± 2.69 |
| | 12 | n.d. | 33.41 ± 0.63 | 0.76 ± 0.20 | 4.86 ± 0.30 | 0.90 ± 0.18 | 36.69 ± 1.61 |
| | 24 | n.d. | 34.77 ± 0.75 | 0.90 ± 0.21 | 5.08 ± 0.31 | 0.98 ± 0.17 | 37.09 ± 0.30 |
| | 36 | n.d. | 34.55 ± 0.80 | 0.99 ± 0.22 | 5.07 ± 0.37 | 1.06 ± 0.18 | 38.06 ± 0.19 |
| | 48 | n.d. | 33.26 ± 0.82 | 1.05 ± 0.22 | 4.93 ± 0.35 | 1.13 ± 0.18 | 37.56 ± 0.86 |
| | 60 | n.d. | 33.10 ± 0.50 | 1.15 ± 0.22 | 4.90 ± 0.30 | 1.21 ± 0.18 | 37.55 ± 1.19 |
| 72 | n.d. | 32.26 ± 0.85 | 1.21 ± 0.24 | 4.82 ± 0.35 | 1.29 ± 0.19 | 37.60 ± 0.88 | |
| SS38 | Input | 83.35 ± 2.09 | 35.31 ± 0.99 | n.d. | n.d. | n.d. | n.d. |
| | 0 | 81.83 ± 1.52 | 34.97 ± 0.93 | n.d. | n.d. | n.d. | 0.21 ± 0.36 |
| | 1 | 73.95 ± 1.72 | 34.18 ± 1.15 | 0.19 ± 0.33 | 1.10 ± 0.25 | n.d. | 3.66 ± 0.76 |
| | 3 | 52.23 ± 4.39 | 33.44 ± 0.94 | 0.39 ± 0.34 | 2.62 ± 0.27 | 0.46 ± 0.44 | 12.88 ± 1.44 |
| | 6 | 1.16 ± 1.35 | 31.96 ± 1.20 | 0.73 ± 0.18 | 4.71 ± 0.36 | 0.87 ± 0.19 | 36.18 ± 1.36 |
| | 12 | n.d. | 30.48 ± 0.94 | 0.80 ± 0.17 | 4.83 ± 0.29 | 0.91 ± 0.19 | 37.32 ± 0.68 |

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| | 24 | n.d. | 30.75 ± 0.52 | 1.03 ± 0.2 | 5.27 ± 0.27 | 1.00 ± 0.19 | 38.88 ± 0.77 |
| | 36 | n.d. | 28.52 ± 0.31 | 1.22 ± 0.21 | 5.21 ± 0.27 | 1.06 ± 0.18 | 39.92 ± 0.93 |
| | 48 | n.d. | 26.62 ± 0.32 | 1.40 ± 0.22 | 5.16 ± 0.25 | 1.12 ± 0.19 | 40.51 ± 1.07 |
| | 60 | n.d. | 24.62 ± 0.63 | 1.57 ± 0.22 | 5.12 ± 0.29 | 1.19 ± 0.19 | 41.13 ± 1.26 |
| | 72 | n.d. | 22.85 ± 0.76 | 1.74 ± 0.23 | 5.11 ± 0.31 | 1.25 ± 0.20 | 41.52 ± 1.03 |
| | Input | 83.35 ± 2.09 | 35.31 ± 0.99 | n.d. | n.d. | n.d. | n.d. |
| | 0 | 81.55 ± 2.66 | 34.80 ± 1.41 | n.d. | n.d. | n.d. | 0.19 ± 0.33 |
| | 1 | 73.78 ± 4.10 | 33.82 ± 1.41 | 0.18 ± 0.32 | 1.02 ± 0.20 | n.d. | 3.37 ± 0.70 |
| | 3 | 51.57 ± 6.41 | 32.63 ± 1.62 | 0.4 ± 0.35 | 2.50 ± 0.28 | 0.28 ± 0.49 | 12.43 ± 1.62 |
| | 6 | 2.71 ± 2.48 | 33.25 ± 2.26 | 0.76 ± 0.15 | 4.87 ± 0.44 | 0.89 ± 0.24 | 35.77 ± 1.55 |
| SS39 | 12 | n.d. | 29.41 ± 2.03 | 0.80 ± 0.15 | 4.87 ± 0.33 | 0.91 ± 0.22 | 37.83 ± 0.96 |
| | 24 | n.d. | 29.10 ± 1.27 | 1.02 ± 0.13 | 5.43 ± 0.20 | 1.01 ± 0.22 | 39.95 ± 0.39 |
| | 36 | n.d. | 25.68 ± 1.26 | 1.18 ± 0.14 | 5.38 ± 0.25 | 1.06 ± 0.22 | 41.37 ± 0.77 |
| | 48 | n.d. | 22.97 ± 1.49 | 1.30 ± 0.18 | 5.41 ± 0.30 | 1.11 ± 0.23 | 42.48 ± 1.73 |
| | 60 | n.d. | 20.10 ± 1.43 | 1.44 ± 0.16 | 5.32 ± 0.29 | 1.17 ± 0.23 | 42.70 ± 0.90 |
| | 72 | n.d. | 17.96 ± 1.52 | 1.59 ± 0.13 | 5.33 ± 0.25 | 1.23 ± 0.23 | 43.86 ± 0.80 |
| | Input | 83.35 ± 2.09 | 35.31 ± 0.99 | n.d. | n.d. | n.d. | n.d. |
| | 0 | 83.31 ± 1.53 | 35.59 ± 0.97 | n.d. | n.d. | n.d. | 0.19 ± 0.33 |
| | 1 | 72.66 ± 2.29 | 33.35 ± 1.01 | 0.18 ± 0.32 | 1.01 ± 0.23 | n.d. | 3.42 ± 0.69 |
| | 3 | 51.13 ± 4.25 | 32.65 ± 1.25 | 0.39 ± 0.34 | 2.51 ± 0.18 | 0.28 ± 0.49 | 12.80 ± 0.97 |
| | 6 | 1.07 ± 1.07 | 31.76 ± 1.37 | 0.72 ± 0.17 | 4.56 ± 0.27 | 0.83 ± 0.18 | 36.00 ± 1.15 |
| SS40 | 12 | n.d. | 29.81 ± 1.19 | 0.77 ± 0.18 | 4.61 ± 0.23 | 0.89 ± 0.20 | 37.24 ± 0.91 |
| | 24 | n.d. | 30.77 ± 1.68 | 0.98 ± 0.18 | 5.12 ± 0.19 | 0.98 ± 0.21 | 38.95 ± 0.52 |
| | 36 | n.d. | 28.89 ± 1.77 | 1.11 ± 0.16 | 5.16 ± 0.15 | 1.04 ± 0.21 | 40.39 ± 0.82 |
| | 48 | n.d. | 26.17 ± 2.28 | 1.25 ± 0.20 | 5.05 ± 0.21 | 1.08 ± 0.21 | 40.66 ± 0.95 |
| | 60 | n.d. | 24.36 ± 3.17 | 1.41 ± 0.22 | 5.07 ± 0.22 | 1.16 ± 0.24 | 41.48 ± 1.20 |
| | 72 | n.d. | 22.72 ± 3.40 | 1.58 ± 0.25 | 5.04 ± 0.39 | 1.22 ± 0.23 | 41.24 ± 1.19 |
| | Input | 83.35 ± 2.09 | 35.31 ± 0.99 | n.d. | n.d. | n.d. | n.d. |
| SS41 | 0 | 80.81 ± 1.82 | 34.50 ± 1.06 | n.d. | n.d. | n.d. | n.d. |
| | 1 | 71.86 ± 2.23 | 33.31 ± 1.49 | 0.19 ± 0.33 | 0.76 ± 0.71 | n.d. | 3.74 ± 0.81 |
| | 3 | 49.61 ± 4.13 | 32.98 ± 2.24 | 0.43 ± 0.39 | 2.59 ± 0.46 | 0.29 ± 0.51 | 13.51 ± 1.72 |

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| | 6 | 1.26 ± 1.29 | 32.79 ± 1.09 | 0.72 ± 0.20 | 4.63 ± 0.36 | 0.83 ± 0.19 | 35.77 ± 0.84 |
| | 12 | n.d. | 31.11 ± 0.93 | 0.74 ± 0.21 | 4.54 ± 0.35 | 0.89 ± 0.18 | 36.32 ± 1.02 |
| | 24 | n.d. | 33.52 ± 0.93 | 0.93 ± 0.20 | 4.96 ± 0.37 | 0.96 ± 0.17 | 37.59 ± 0.71 |
| | 36 | n.d. | 32.80 ± 0.45 | 1.04 ± 0.20 | 4.91 ± 0.32 | 1.03 ± 0.17 | 38.33 ± 0.24 |
| | 48 | n.d. | 32.12 ± 1.51 | 1.17 ± 0.22 | 4.90 ± 0.45 | 1.09 ± 0.18 | 37.78 ± 0.85 |
| | 60 | n.d. | 30.52 ± 1.21 | 1.24 ± 0.23 | 4.73 ± 0.37 | 1.16 ± 0.18 | 38.03 ± 1.04 |
| | 72 | n.d. | 30.34 ± 2.13 | 1.38 ± 0.27 | 4.78 ± 0.54 | 1.23 ± 0.18 | 37.76 ± 0.93 |
| | Input | 83.35 ± 2.09 | 35.31 ± 0.99 | n.d. | n.d. | n.d. | n.d. |
| | 0 | 81.71 ± 0.87 | 34.79 ± 0.52 | n.d. | n.d. | n.d. | 0.19 ± 0.34 |
| | 1 | 72.41 ± 3.12 | 33.48 ± 1.45 | 0.19 ± 0.34 | 1.07 ± 0.29 | n.d. | 3.68 ± 1.00 |
| | 3 | 49.06 ± 5.20 | 32.70 ± 1.46 | 0.24 ± 0.42 | 2.69 ± 0.41 | 0.29 ± 0.51 | 13.94 ± 2.01 |
| | 6 | 1.00 ± 1.31 | 31.05 ± 0.59 | 0.72 ± 0.11 | 4.70 ± 0.31 | 0.84 ± 0.19 | 36.74 ± 1.39 |
| SS42 | 12 | n.d. | 25.47 ± 1.05 | 0.83 ± 0.18 | 4.73 ± 0.31 | 0.89 ± 0.21 | 38.91 ± 1.18 |
| | 24 | n.d. | 23.60 ± 0.73 | 1.13 ± 0.16 | 5.44 ± 0.36 | 0.98 ± 0.21 | 42.03 ± 0.77 |
| | 36 | n.d. | 19.10 ± 0.68 | 1.35 ± 0.18 | 5.44 ± 0.36 | 1.01 ± 0.21 | 43.72 ± 0.74 |
| | 48 | n.d. | 15.46 ± 0.53 | 1.52 ± 0.17 | 5.39 ± 0.28 | 1.05 ± 0.21 | 45.58 ± 1.23 |
| | 60 | n.d. | 12.51 ± 1.07 | 1.68 ± 0.20 | 5.31 ± 0.31 | 1.09 ± 0.22 | 46.76 ± 0.71 |
| | 72 | n.d. | 9.96 ± 1.08 | 1.80 ± 0.21 | 5.33 ± 0.34 | 1.13 ± 0.23 | 47.62 ± 1.24 |
| | Input | 83.35 ± 2.09 | 35.31 ± 0.99 | n.d. | n.d. | n.d. | n.d. |
| | 0 | 81.41 ± 2.03 | 34.61 ± 1.10 | n.d. | n.d. | n.d. | n.d. |
| | 1 | 74.24 ± 2.00 | 33.84 ± 0.75 | 0.18 ± 0.31 | 0.97 ± 0.20 | n.d. | 3.17 ± 0.73 |
| | 3 | 55.07 ± 4.68 | 33.27 ± 1.49 | 0.22 ± 0.38 | 2.32 ± 0.32 | 0.45 ± 0.43 | 11.23 ± 1.72 |
| | 6 | 5.36 ± 6.52 | 32.60 ± 1.04 | 0.65 ± 0.12 | 4.38 ± 0.36 | 0.88 ± 0.21 | 34.06 ± 3.20 |
| SS43 | 12 | n.d. | 32.24 ± 1.46 | 0.71 ± 0.18 | 4.55 ± 0.33 | 0.94 ± 0.21 | 36.72 ± 1.30 |
| | 24 | n.d. | 34.43 ± 0.82 | 0.86 ± 0.16 | 4.89 ± 0.26 | 1.02 ± 0.19 | 37.33 ± 0.64 |
| | 36 | n.d. | 34.26 ± 0.51 | 0.96 ± 0.16 | 4.88 ± 0.22 | 1.11 ± 0.19 | 38.01 ± 0.64 |
| | 48 | n.d. | 32.91 ± 1.10 | 1.02 ± 0.22 | 4.73 ± 0.28 | 1.18 ± 0.21 | 37.52 ± 0.81 |
| | 60 | n.d. | 32.39 ± 1.21 | 1.11 ± 0.24 | 4.67 ± 0.33 | 1.27 ± 0.22 | 37.27 ± 0.65 |
| | 72 | n.d. | 32.20 ± 1.13 | 1.20 ± 0.26 | 4.66 ± 0.19 | 1.35 ± 0.24 | 37.02 ± 0.90 |
| SS44 | Input | 83.35 ± 2.09 | 35.31 ± 0.99 | n.d. | n.d. | n.d. | n.d. |
| | 0 | 81.81 ± 0.91 | 34.83 ± 0.69 | n.d. | n.d. | n.d. | n.d. |

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| 1 | 72.30 ± 1.14 | 33.01 ± 0.31 | 0.19 ± 0.32 | 0.99 ± 0.23 | n.d. | 3.20 ± 0.72 |
| 3 | 53.96 ± 3.70 | 32.72 ± 1.41 | 0.23 ± 0.40 | 2.39 ± 0.26 | n.d. | 11.52 ± 1.43 |
| 6 | 3.34 ± 4.18 | 31.96 ± 0.89 | 0.72 ± 0.19 | 4.55 ± 0.36 | 0.87 ± 0.18 | 34.43 ± 2.23 |
| 12 | n.d. | 31.92 ± 1.03 | 0.75 ± 0.18 | 4.70 ± 0.26 | 0.91 ± 0.17 | 35.77 ± 0.53 |
| 24 | n.d. | 34.41 ± 1.03 | 0.91 ± 0.17 | 5.09 ± 0.30 | 1.00 ± 0.16 | 37.12 ± 0.75 |
| 36 | n.d. | 33.58 ± 0.79 | 0.99 ± 0.20 | 4.99 ± 0.29 | 1.06 ± 0.17 | 37.05 ± 0.52 |
| 48 | n.d. | 32.61 ± 0.99 | 1.06 ± 0.22 | 4.86 ± 0.33 | 1.13 ± 0.18 | 37.16 ± 0.68 |
| 60 | n.d. | 32.23 ± 0.78 | 1.15 ± 0.23 | 4.87 ± 0.31 | 1.21 ± 0.20 | 37.25 ± 0.73 |
| 72 | n.d. | 32.03 ± 1.10 | 1.24 ± 0.26 | 4.88 ± 0.32 | 1.29 ± 0.18 | 36.86 ± 0.74 |
