A

Glucose (g/L)

Y1A

Y2A

Y35

424A

- 30°C
- 35°C
- 40°C

Time (h)

0 12 24 36 48

0 12 24 36 48

0 12 24 36 48

0 12 24 36 48

B

Xylose (g/L)

Time (h)

0 12 24 36 48

0 12 24 36 48

0 12 24 36 48

0 12 24 36 48

C

Ethanol (g/L)

Time (h)

0 12 24 36 48

0 12 24 36 48

0 12 24 36 48

0 12 24 36 48

D

OD600

Time (h)

0 12 24 36 48

0 12 24 36 48

0 12 24 36 48

0 12 24 36 48

E

CFU/ml

Time (h)

0 12 24 36 48

0 12 24 36 48

0 12 24 36 48

0 12 24 36 48