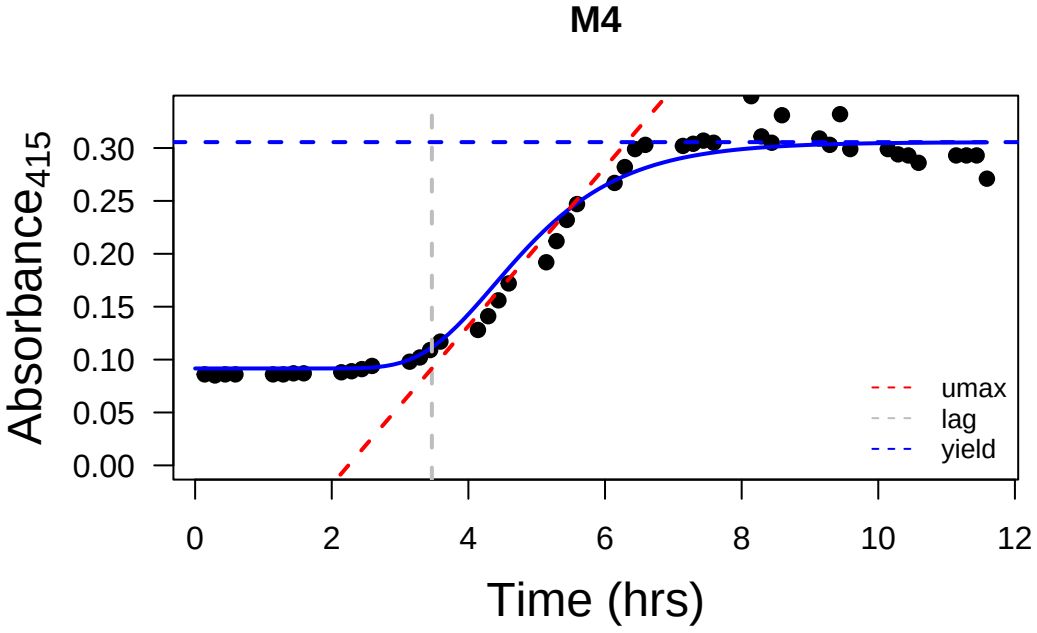
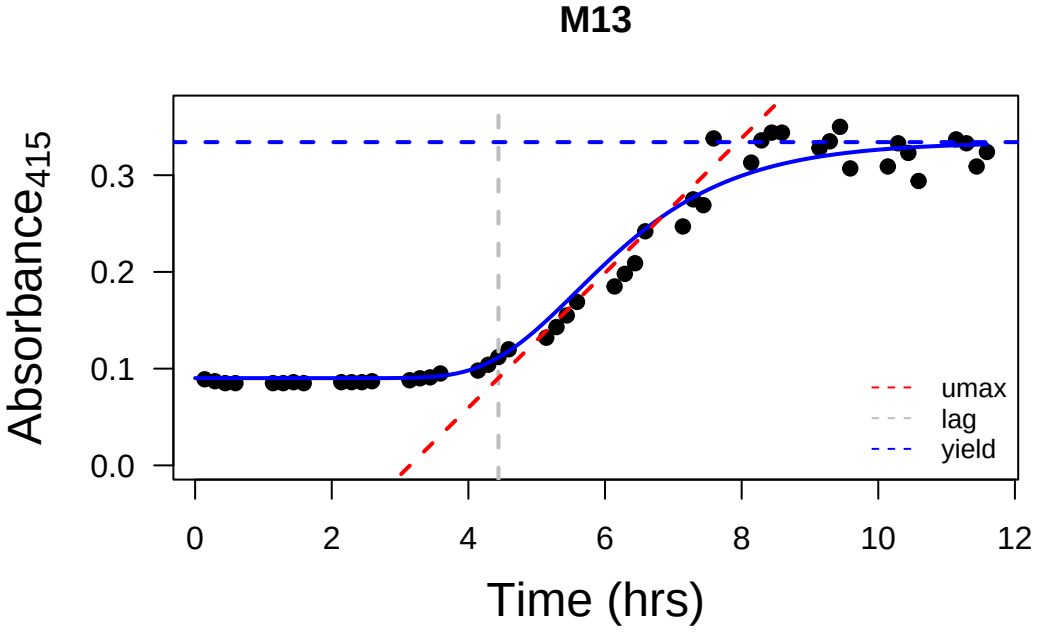
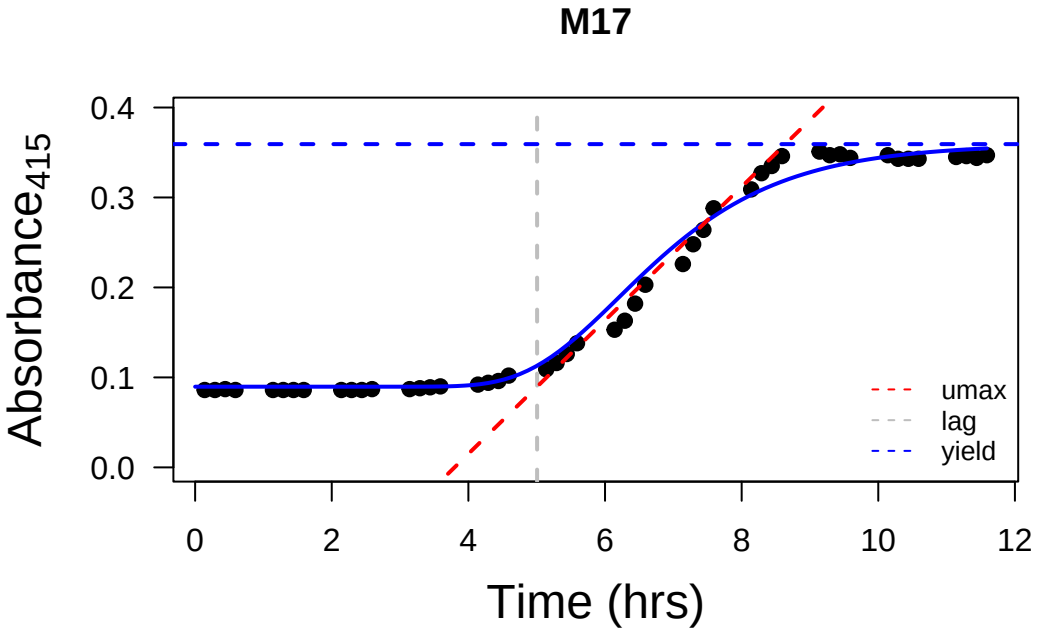
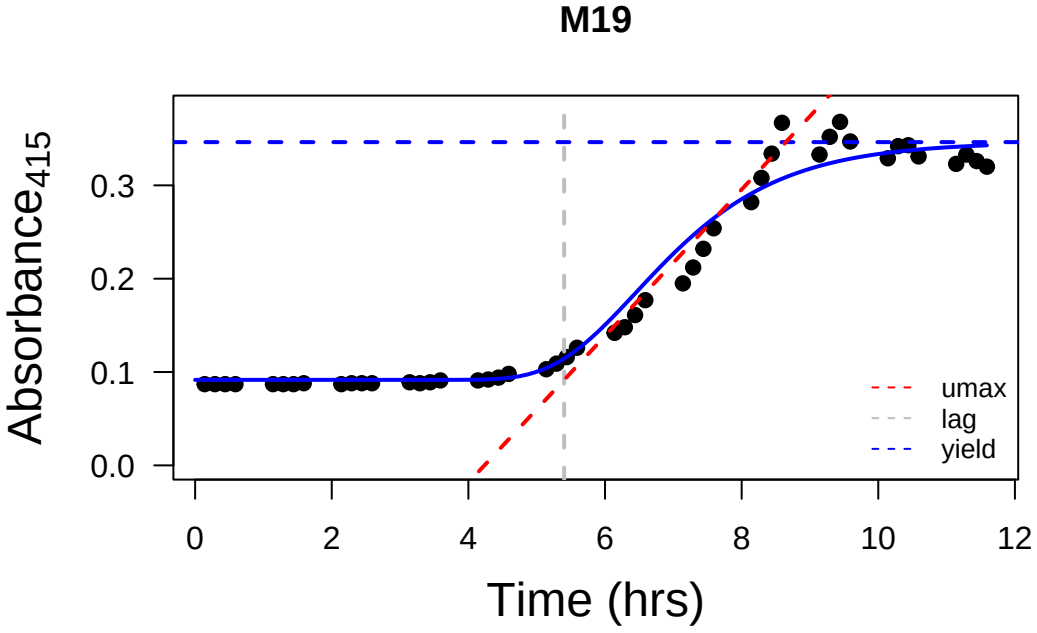
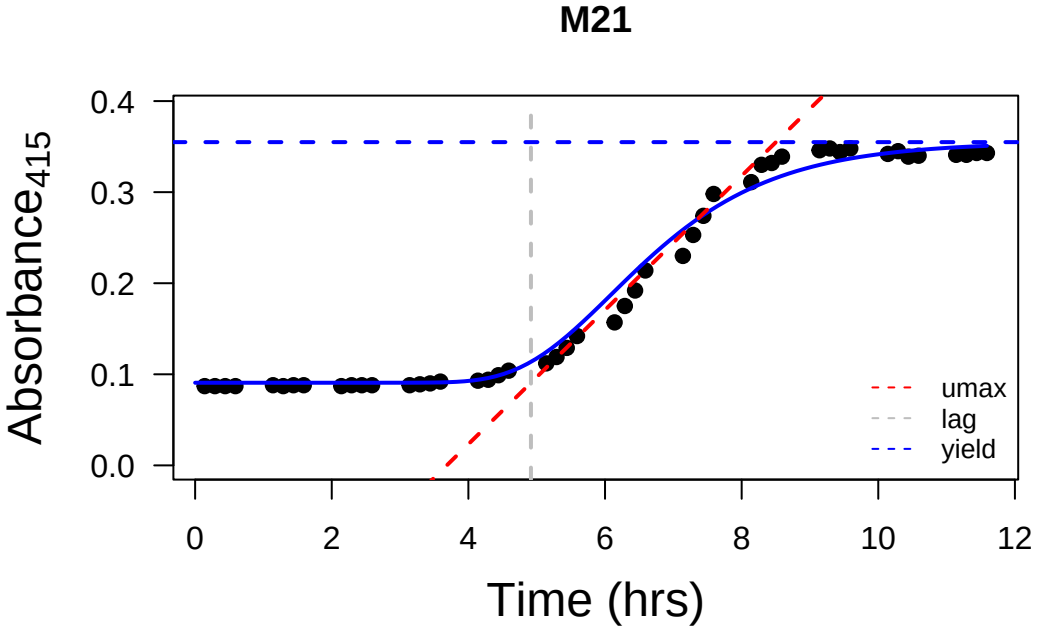
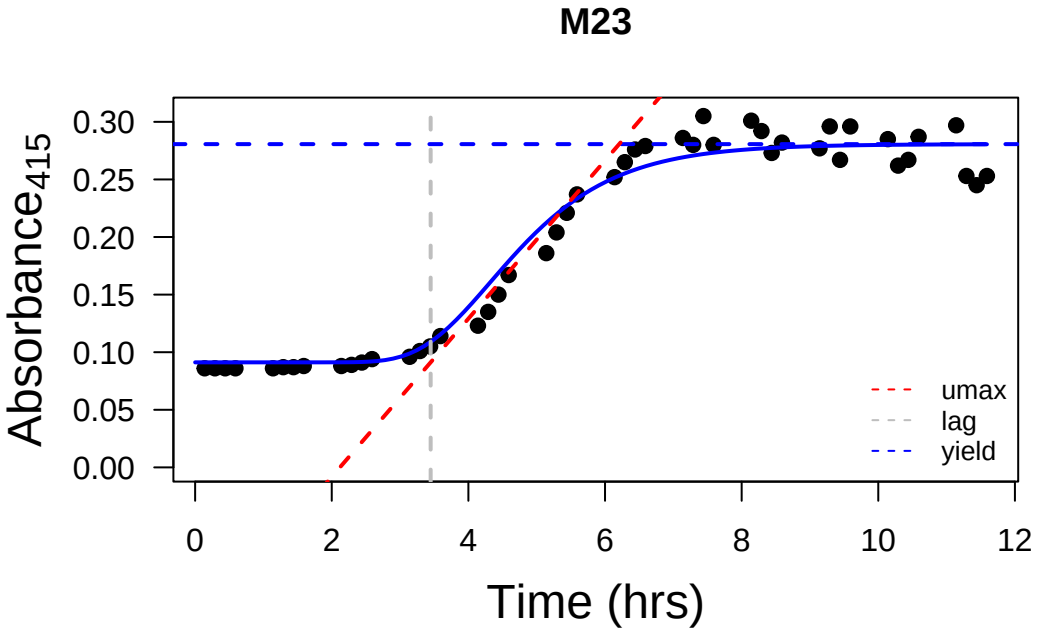

M4
Absorbance415
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

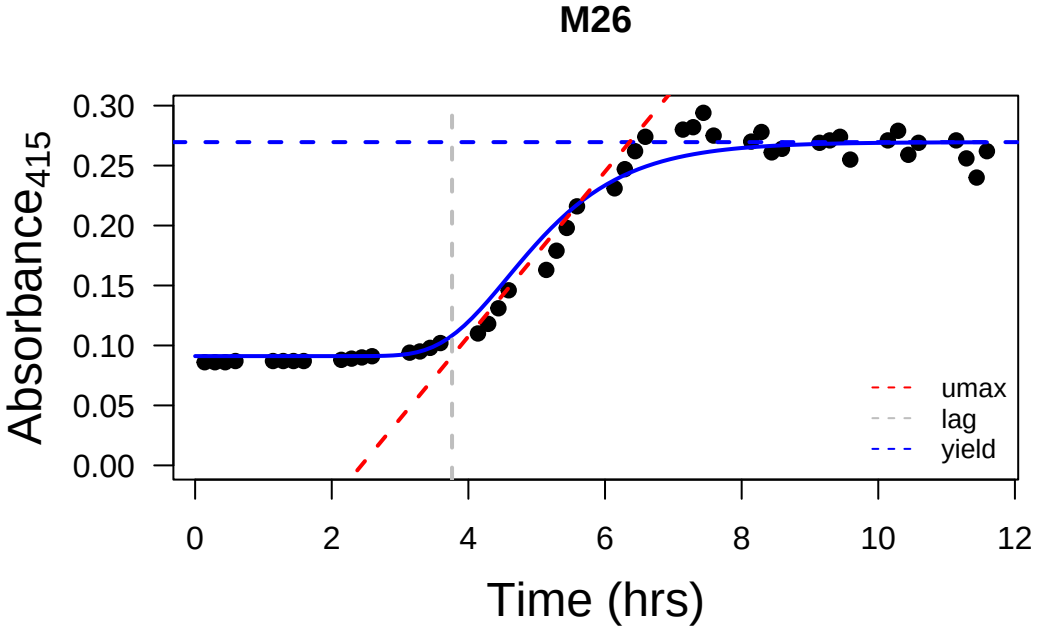

M13
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

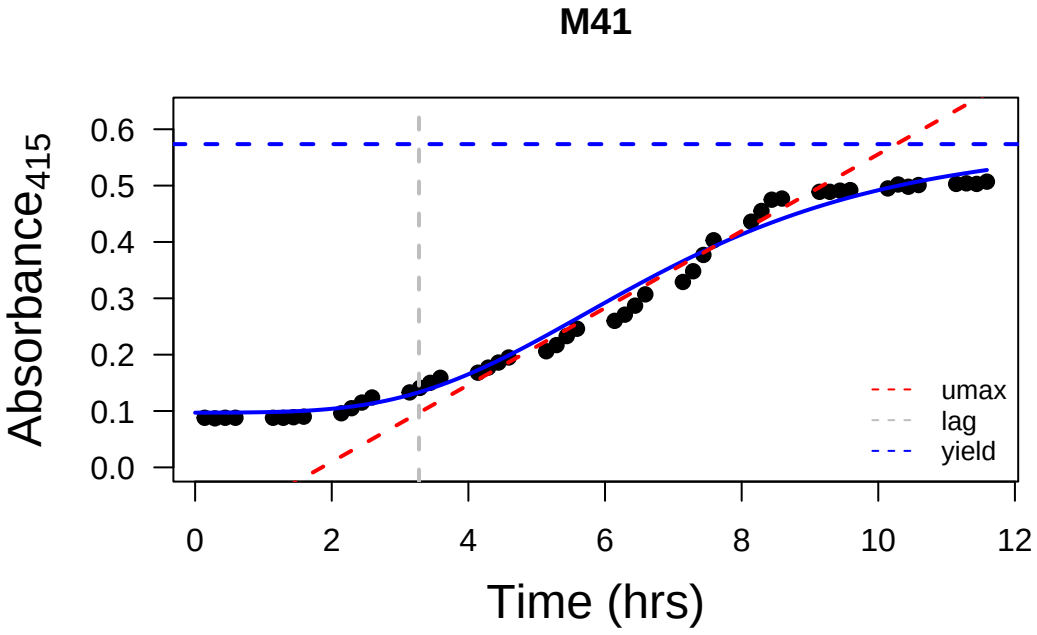

M17
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

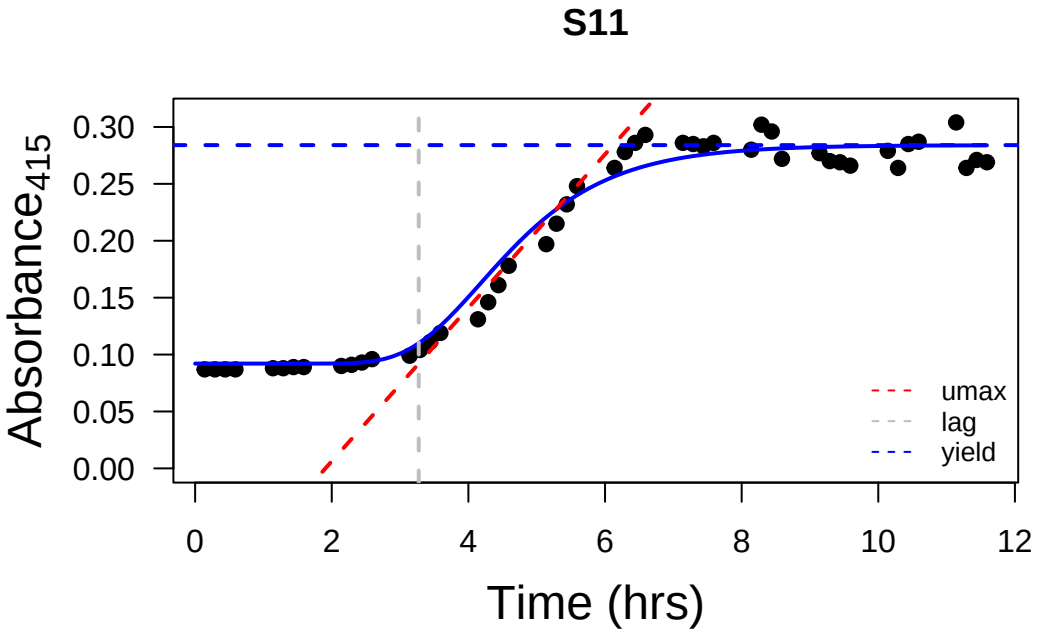

M19
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

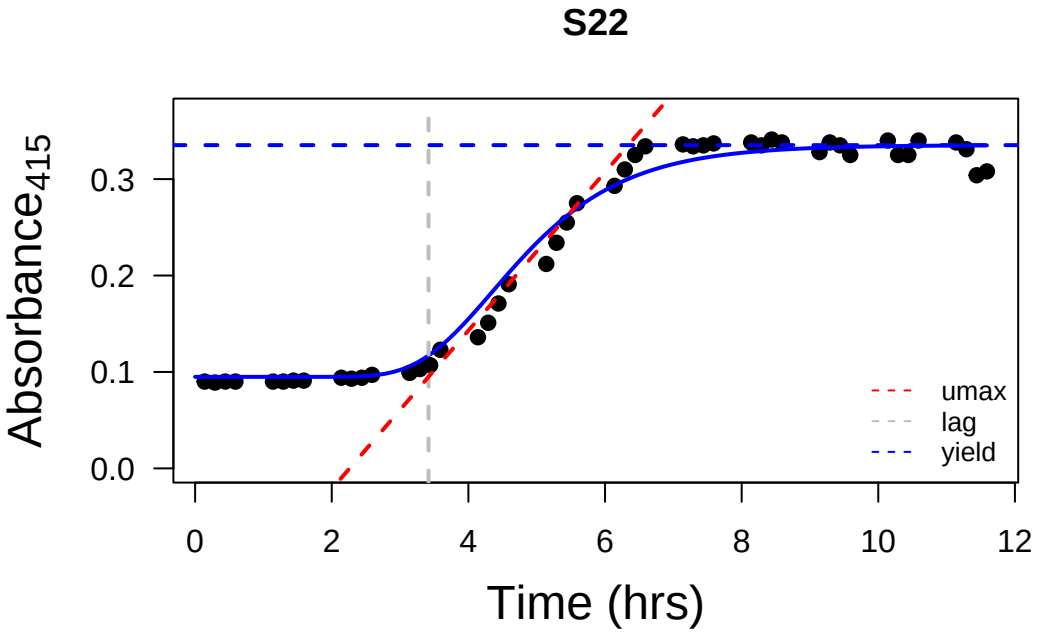

M21
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

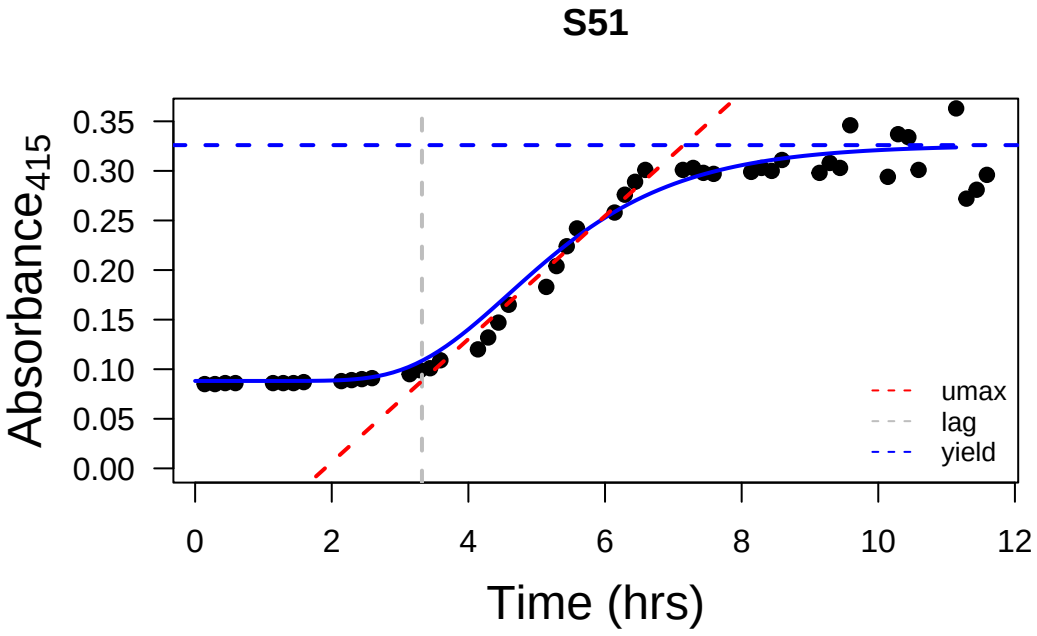

M23
Absorbance415
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

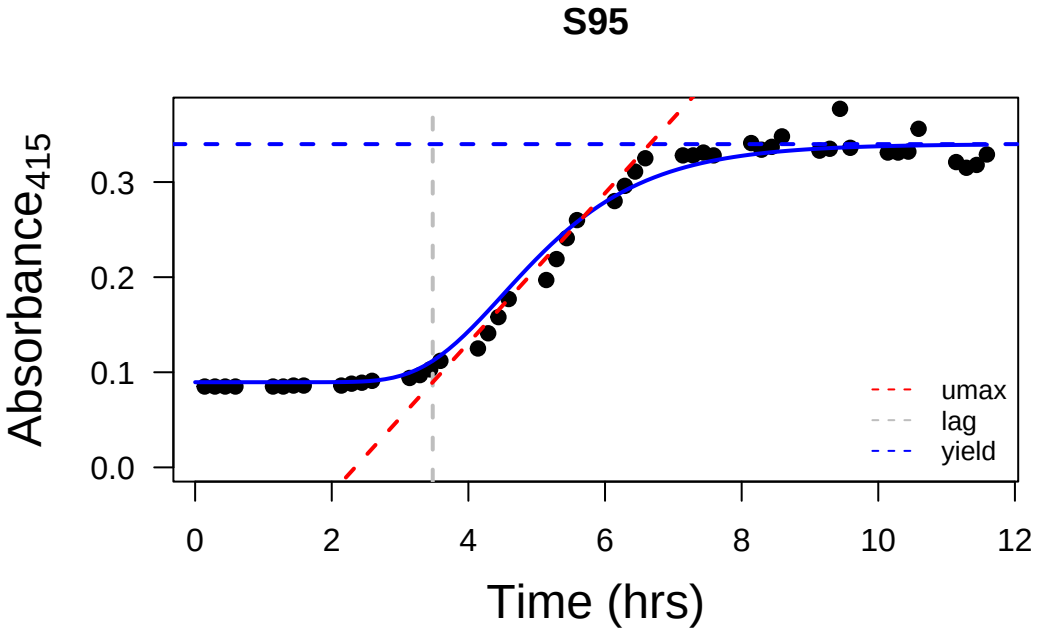

M26
Absorbance415
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

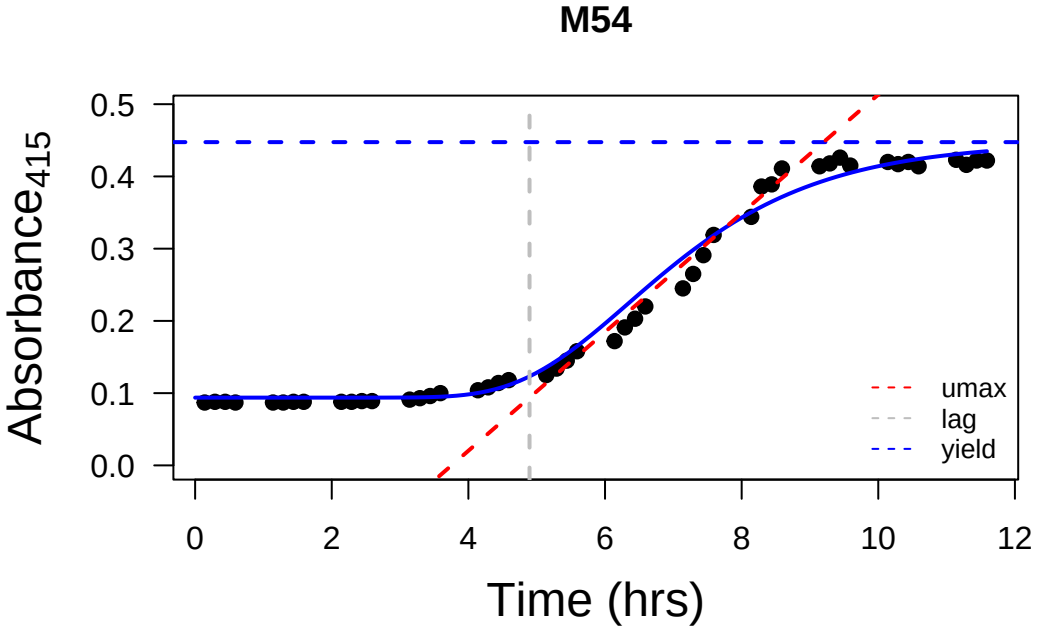

M41
Absorbance415
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

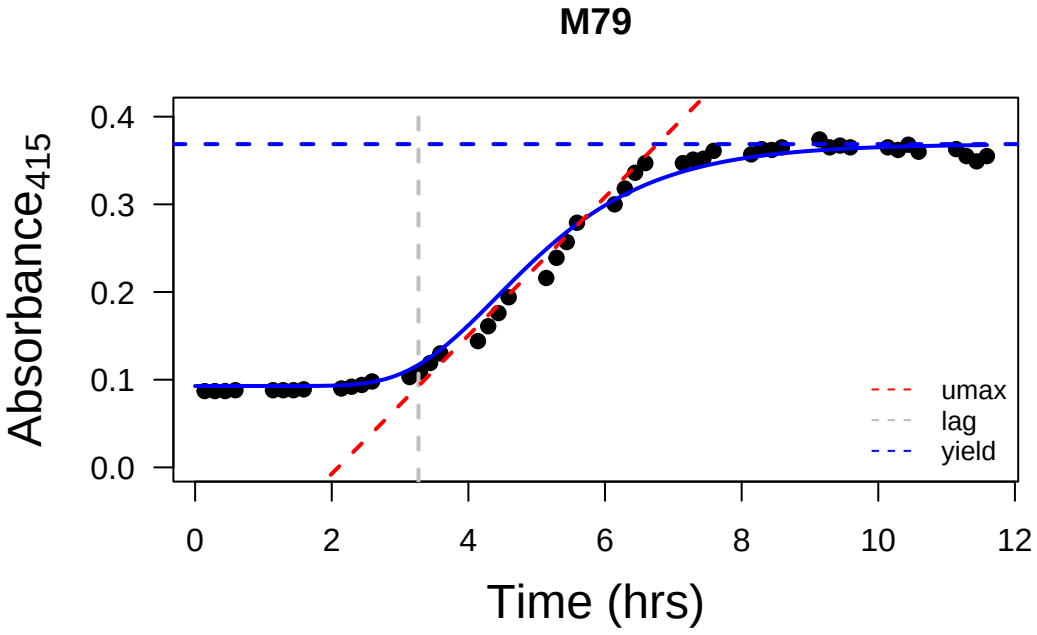

S11
Absorbance415
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

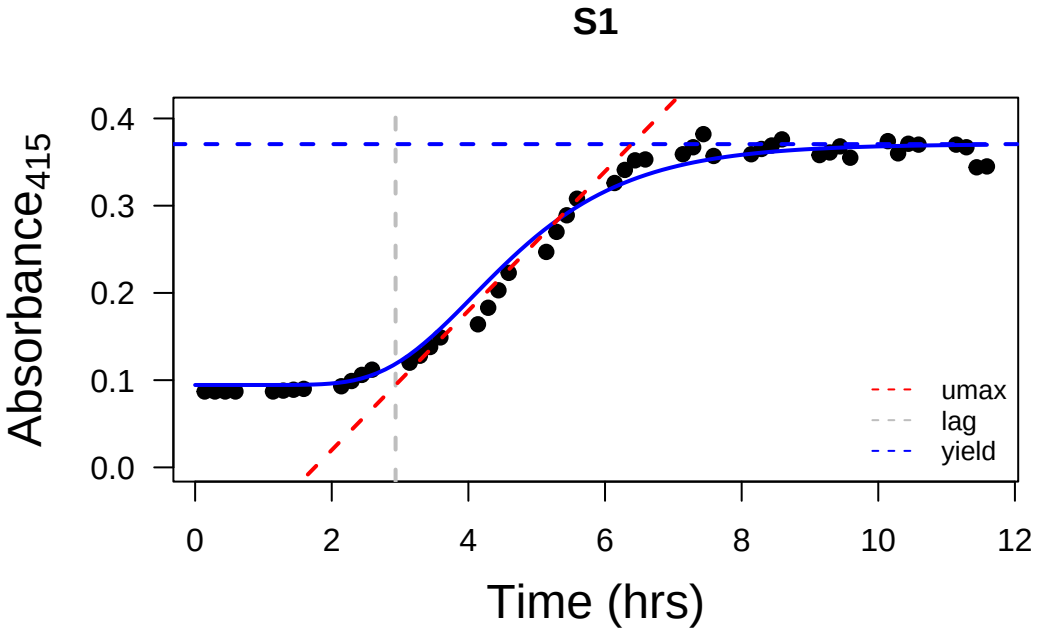

S22
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

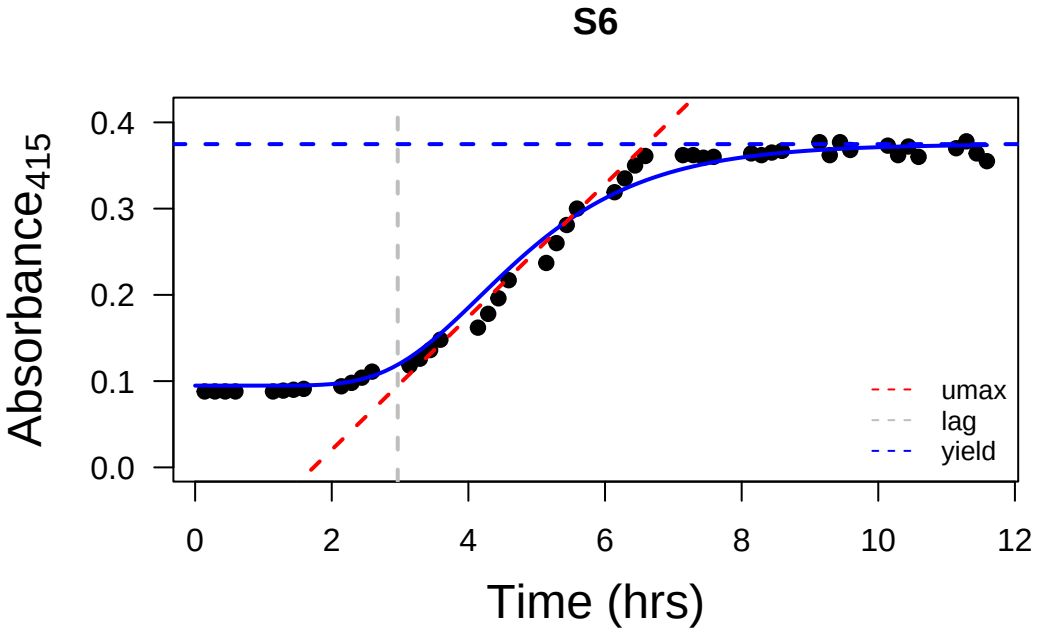

S51
Absorbance415
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

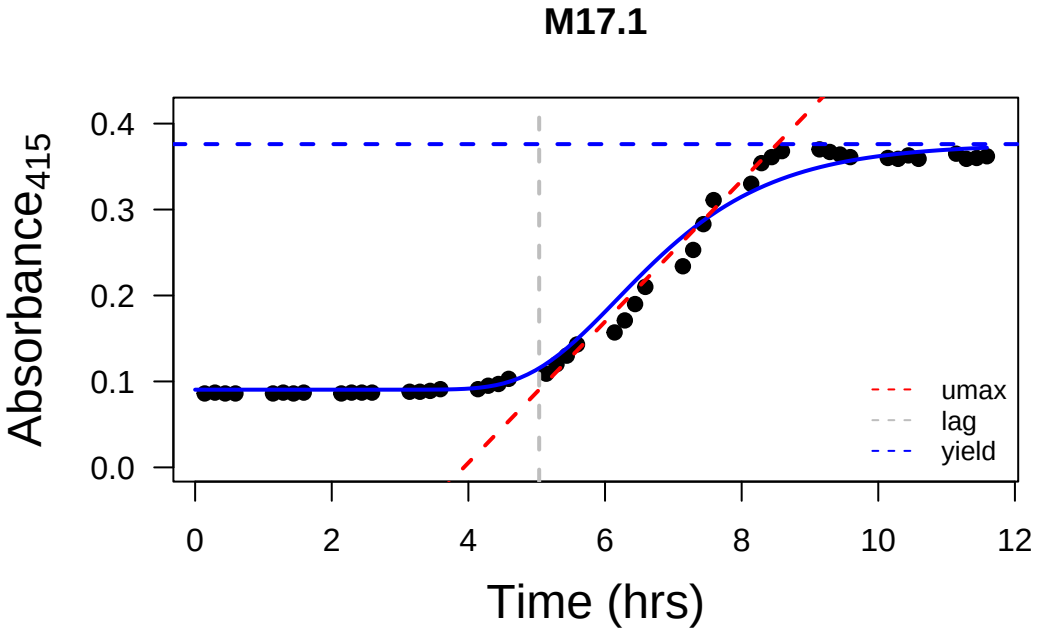

S95
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

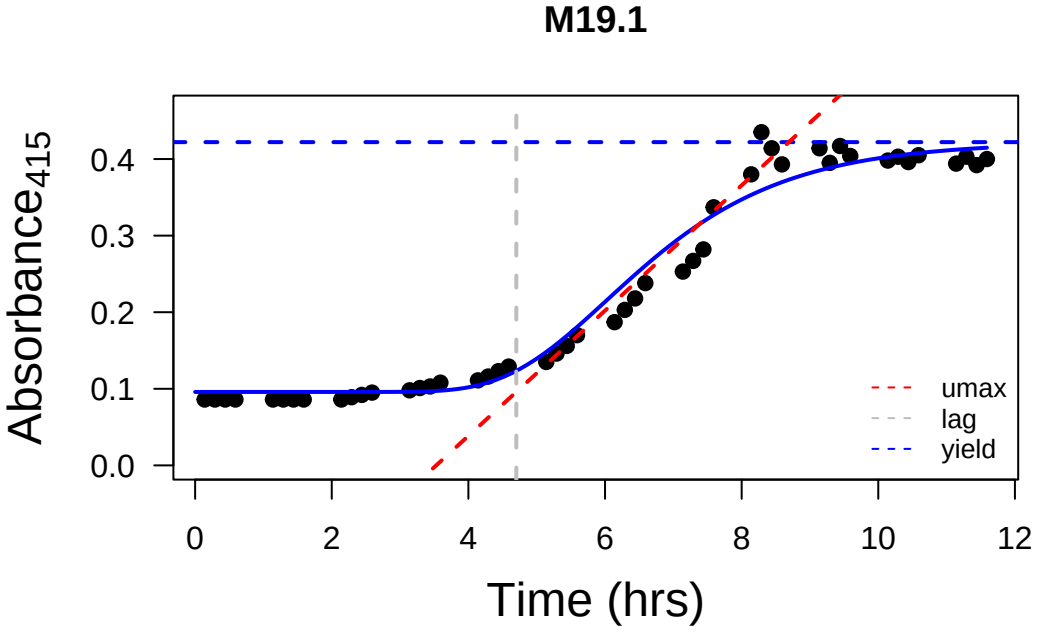

M54
Absorbance415
0.0
0.1
0.2
0.3
0.4
0.5
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

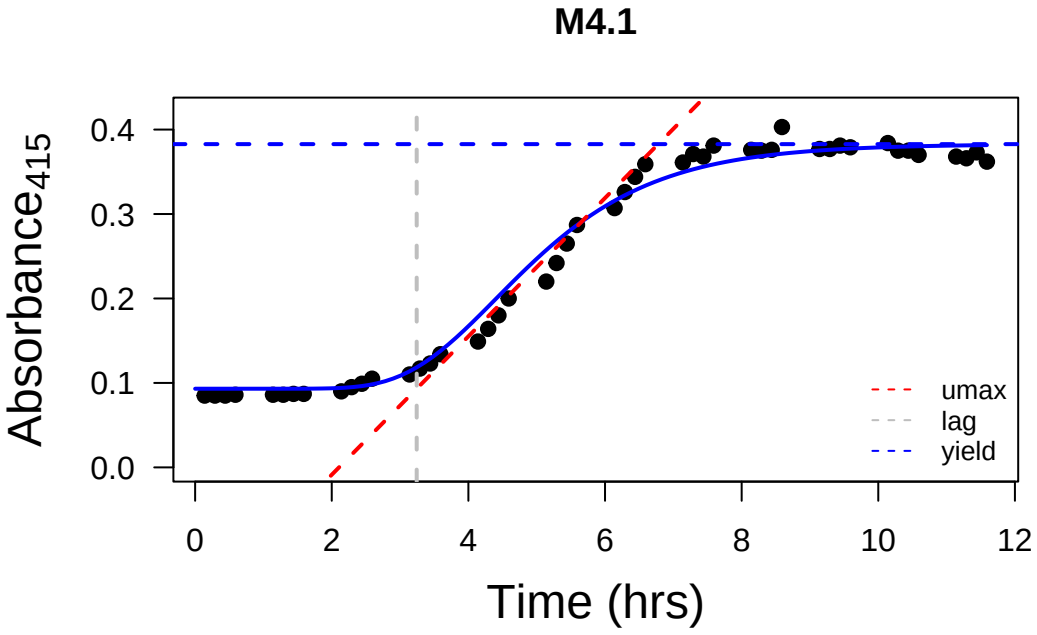

M79
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

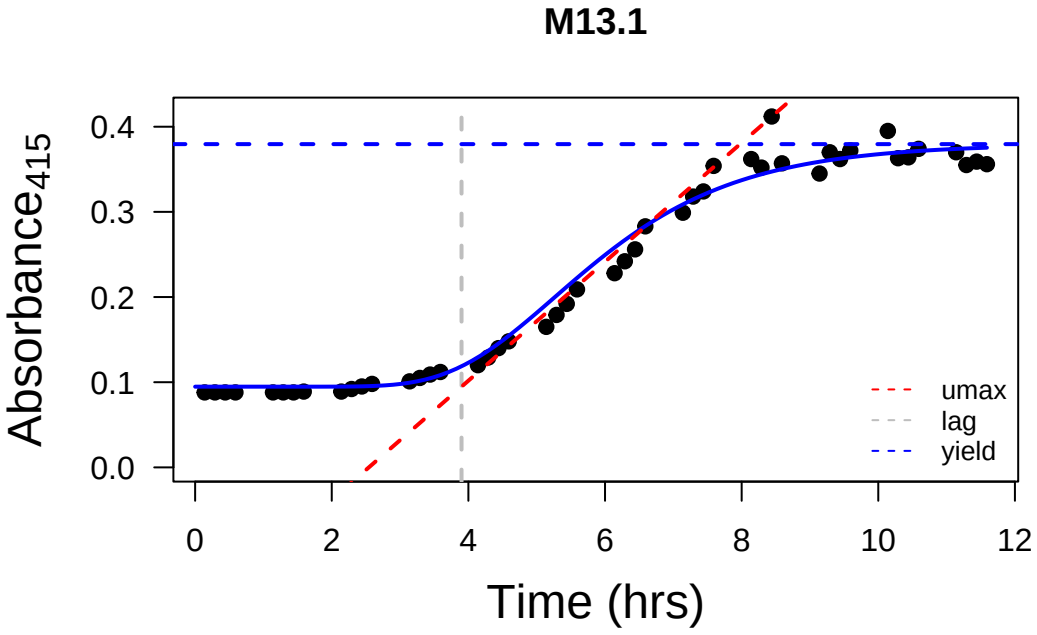

S1
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

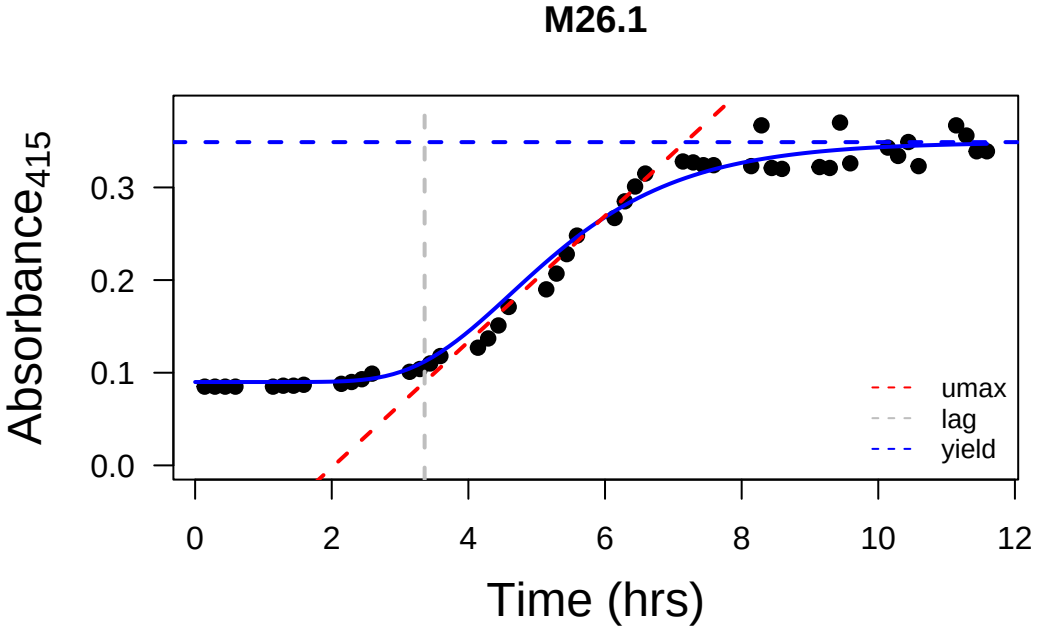

S6
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

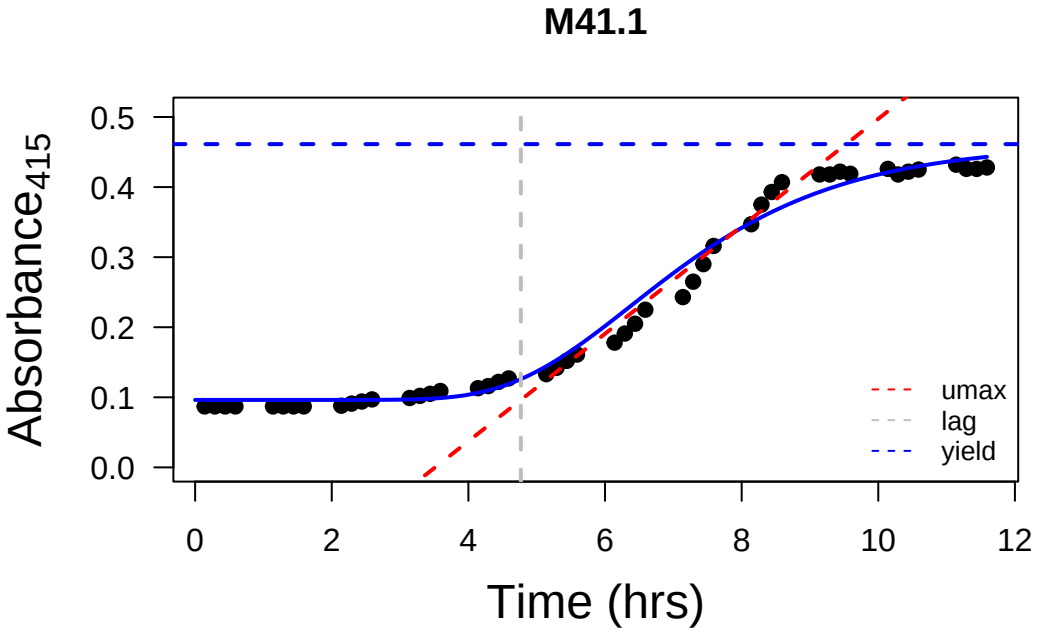

M17.1
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

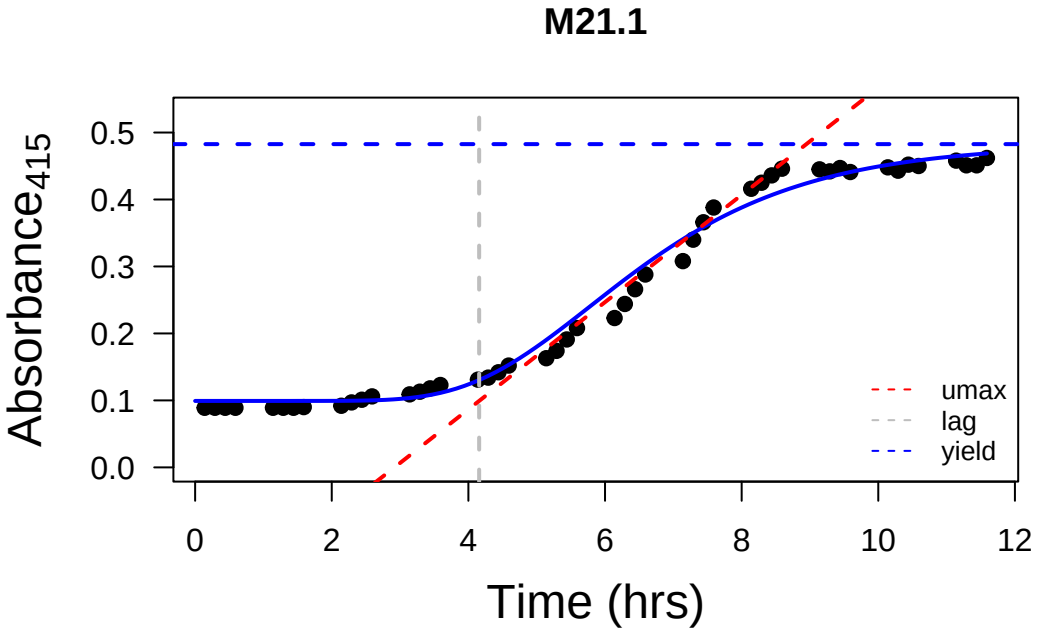

M19.1
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

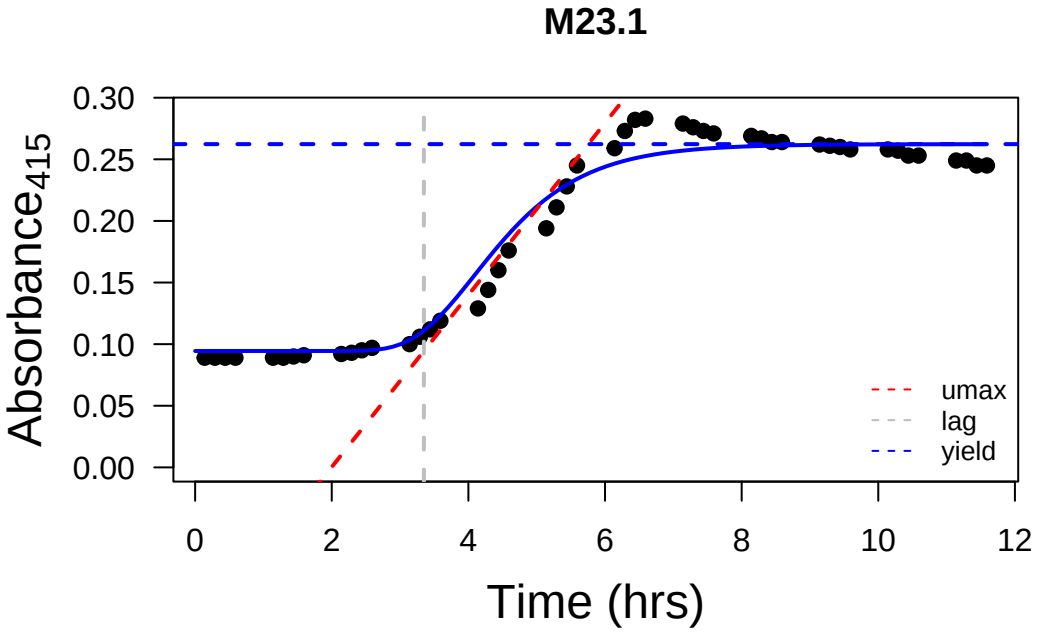

M4.1
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

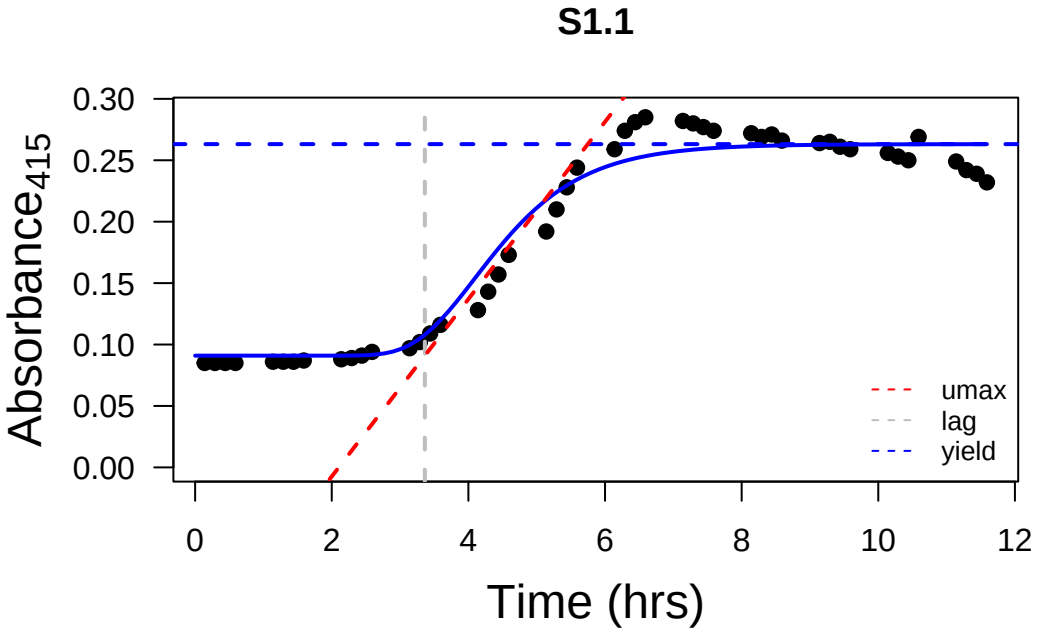

M13.1
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

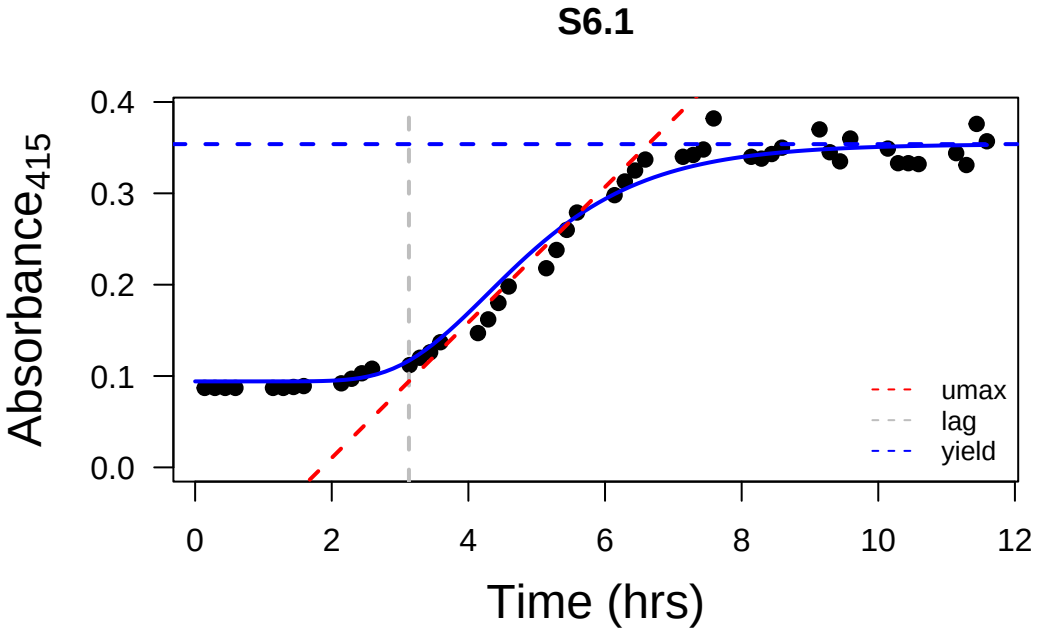

M26.1
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

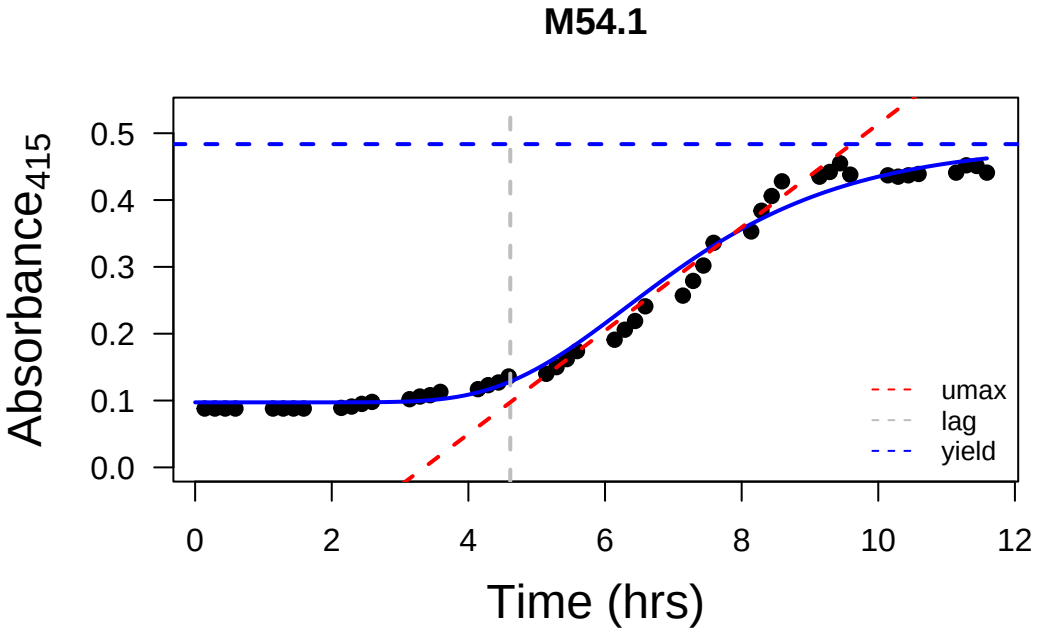

M41.1
Absorbance415
0.0
0.1
0.2
0.3
0.4
0.5
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

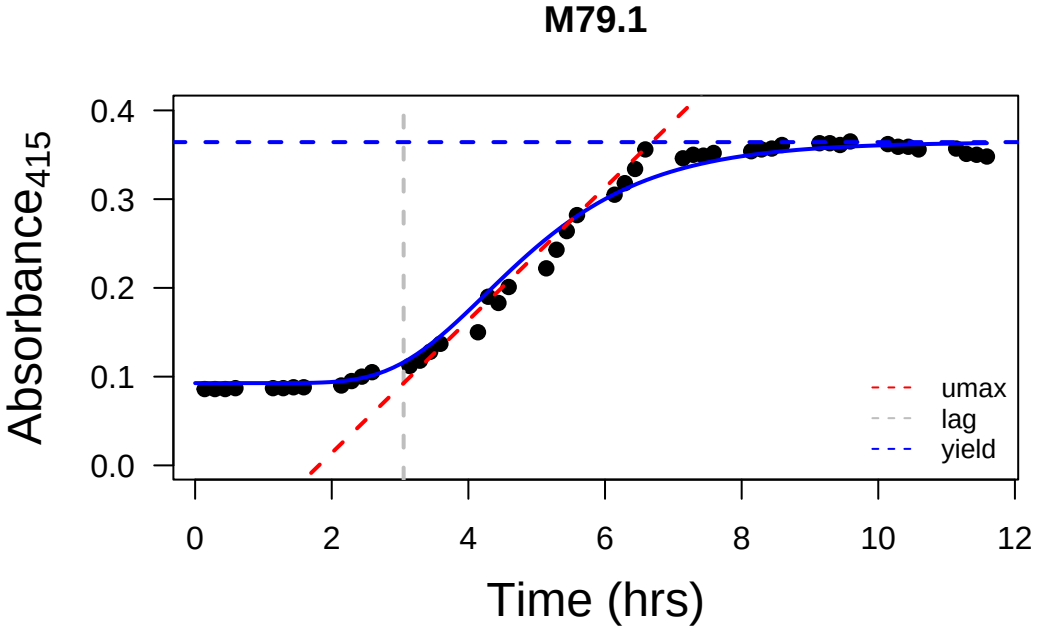

M21.1
Absorbance415
0.0
0.1
0.2
0.3
0.4
0.5
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

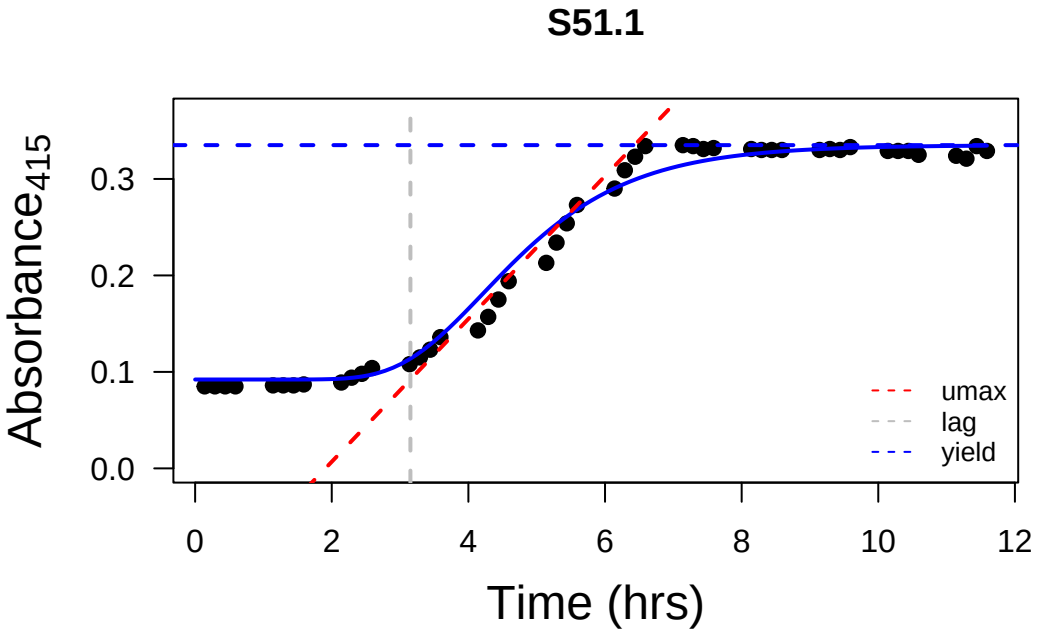

M23.1
Absorbance415
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

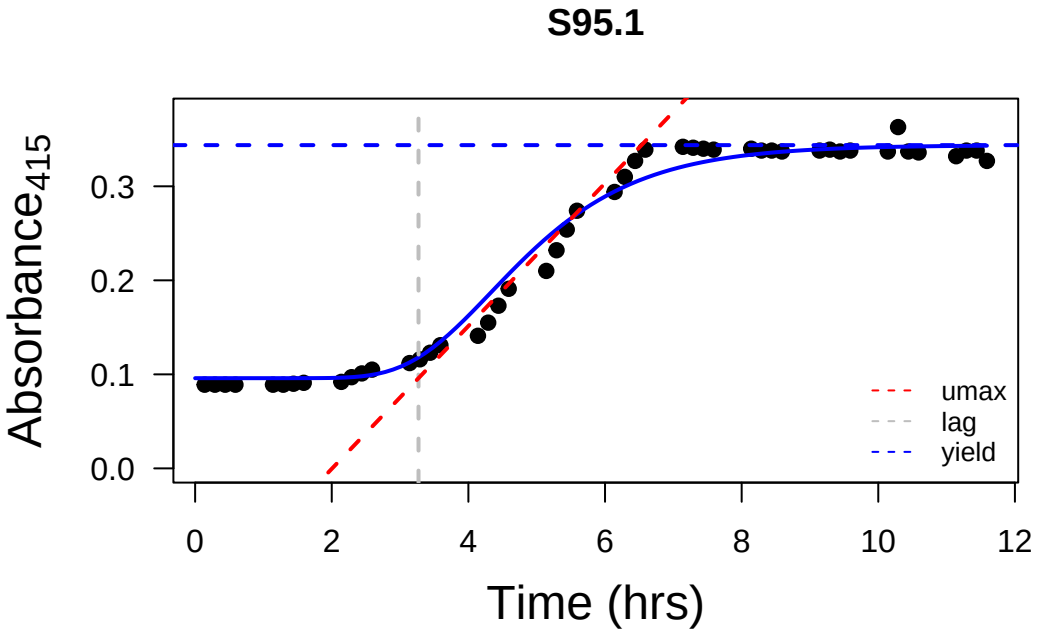

S1.1
Absorbance415
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

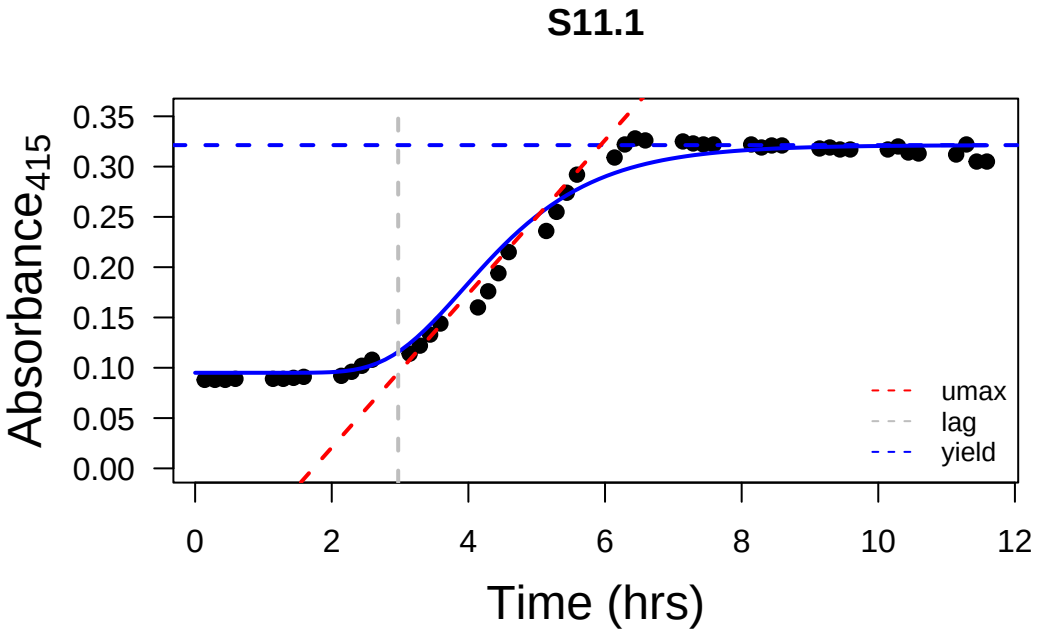

S6.1
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

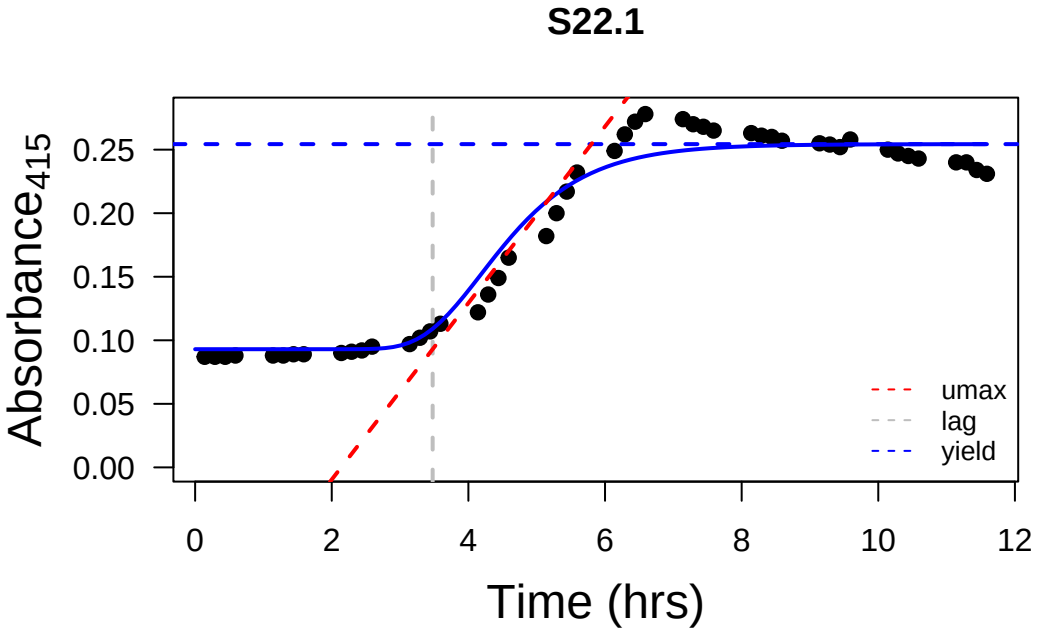

M54.1
Absorbance415
0.0
0.1
0.2
0.3
0.4
0.5
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

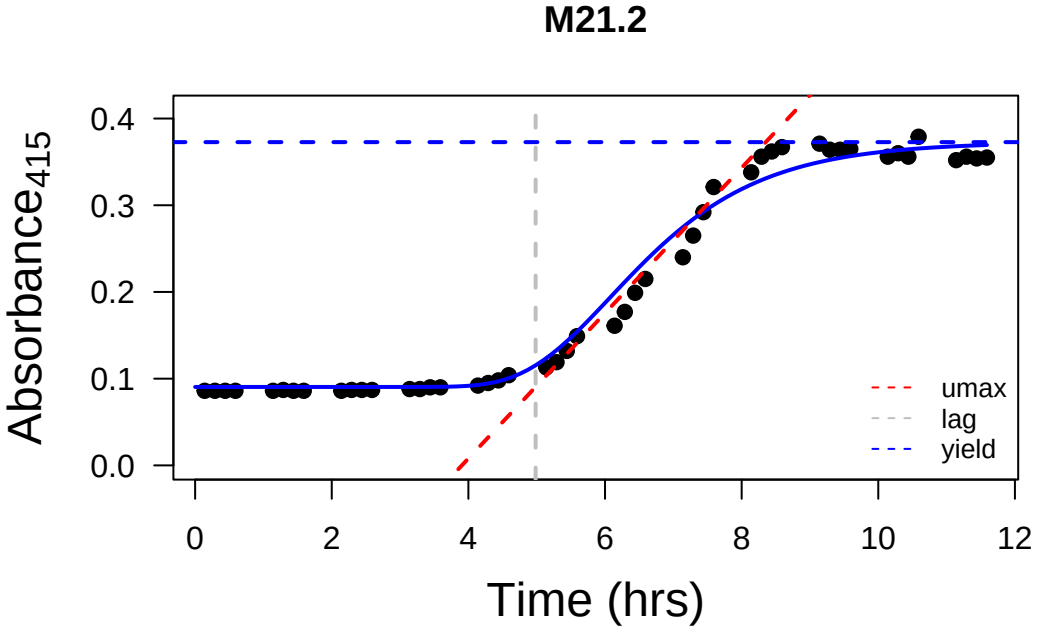

M79.1
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

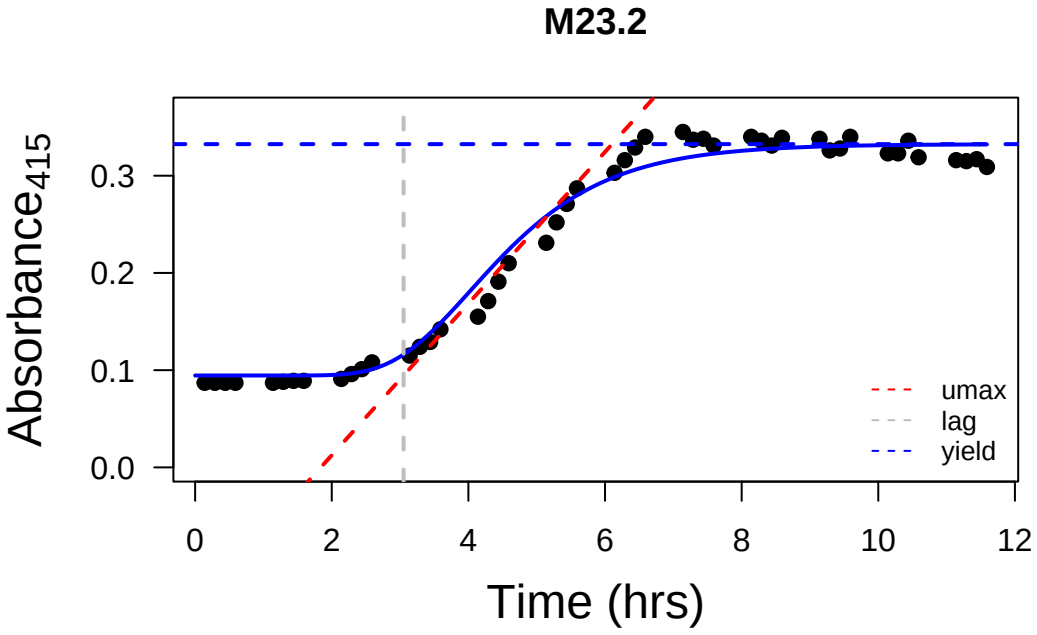

S51.1
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

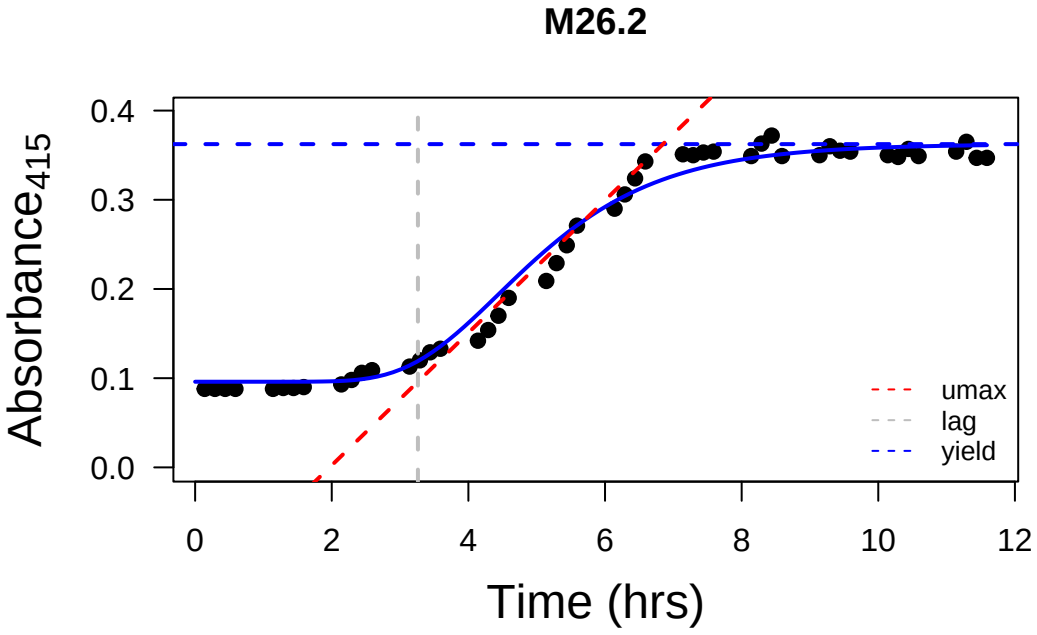

S95.1
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

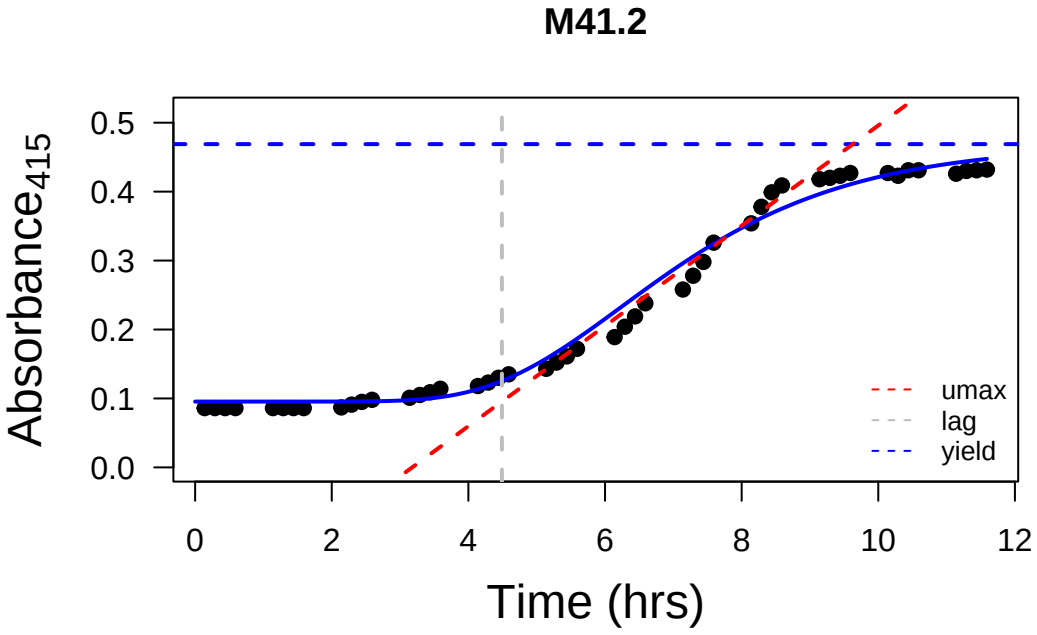

S11.1
Absorbance415
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

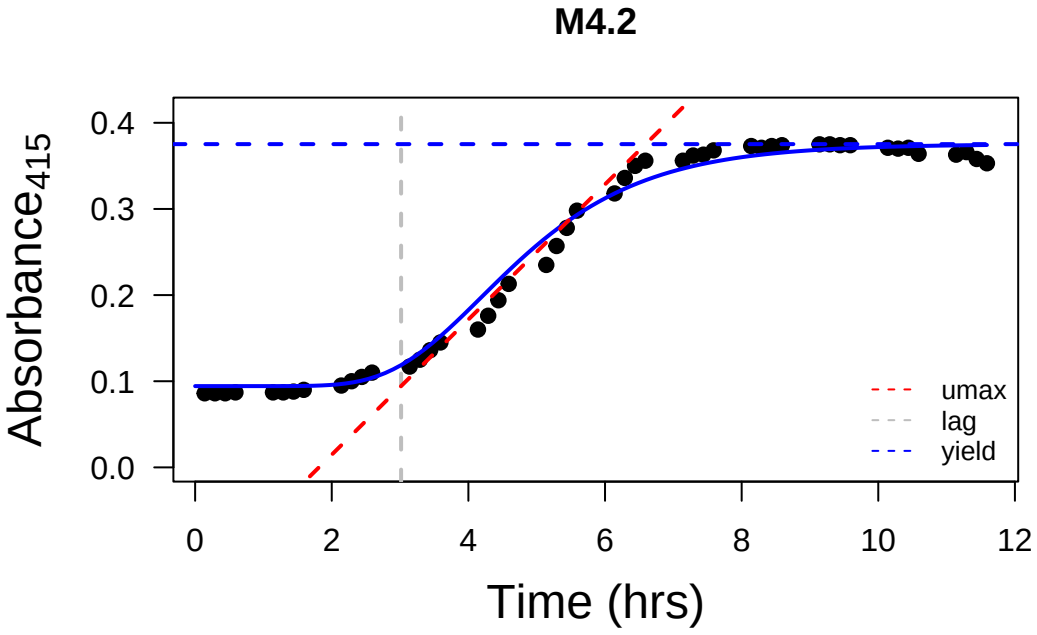

S22.1
Absorbance415
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

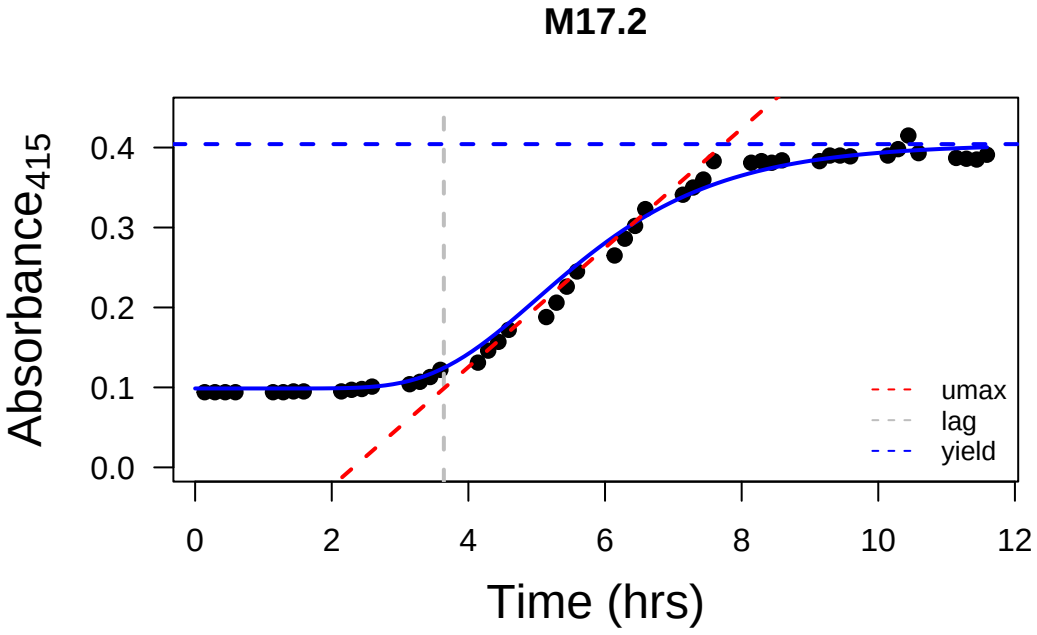

M21.2
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

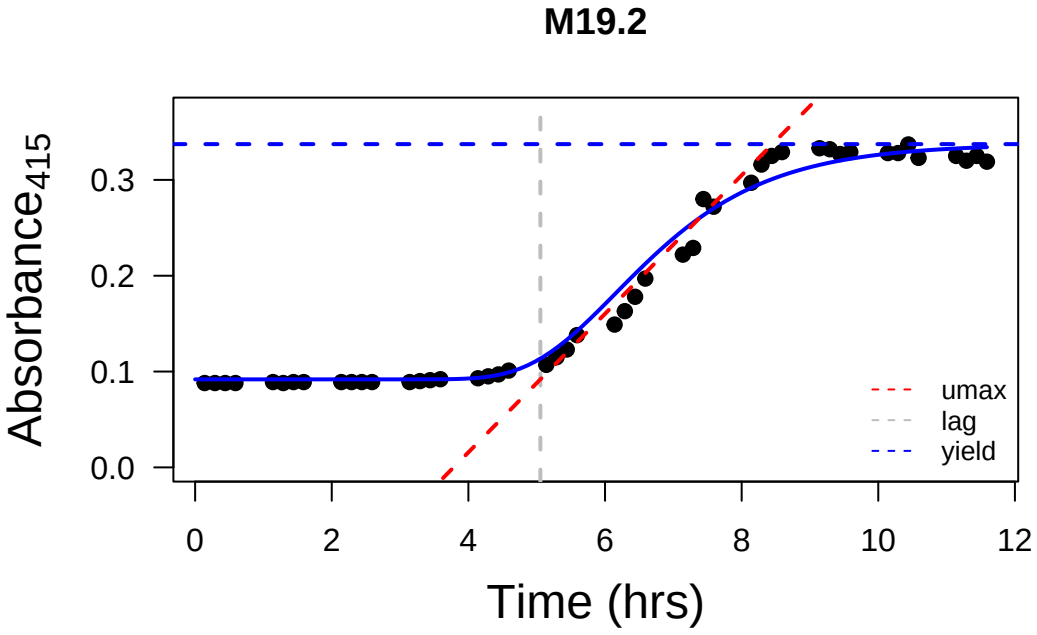

M23.2
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

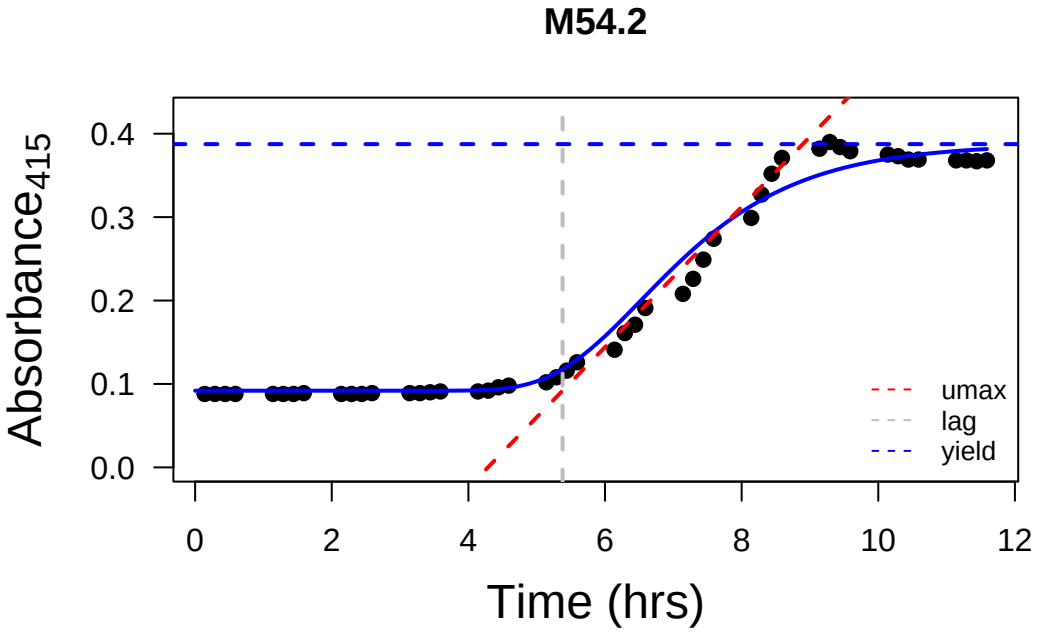

M26.2
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

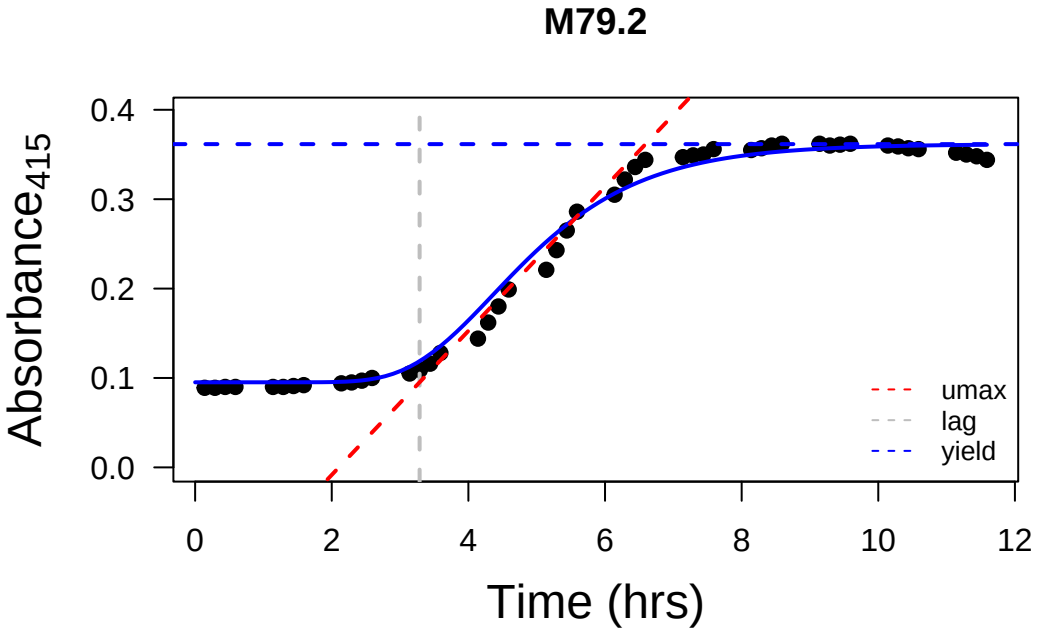

M41.2
Absorbance415
0.0
0.1
0.2
0.3
0.4
0.5
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

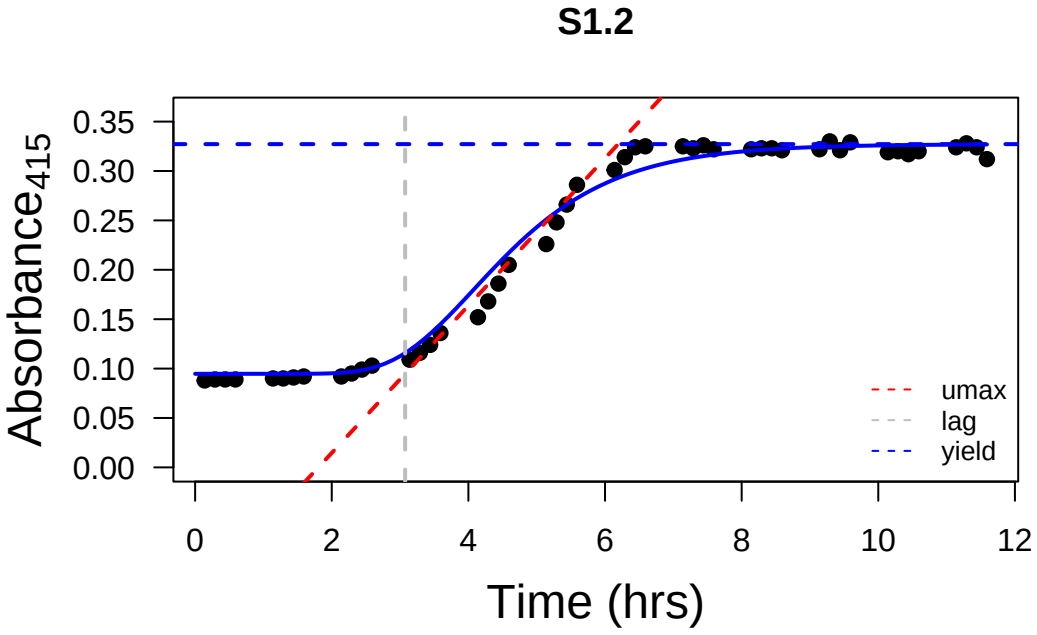

M4.2
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

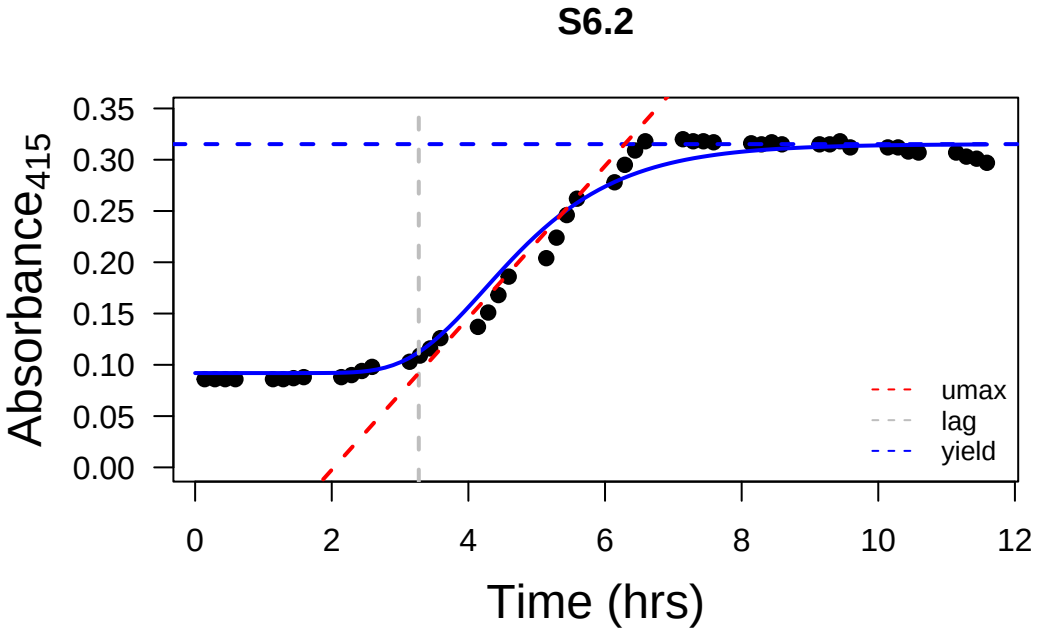

M17.2
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

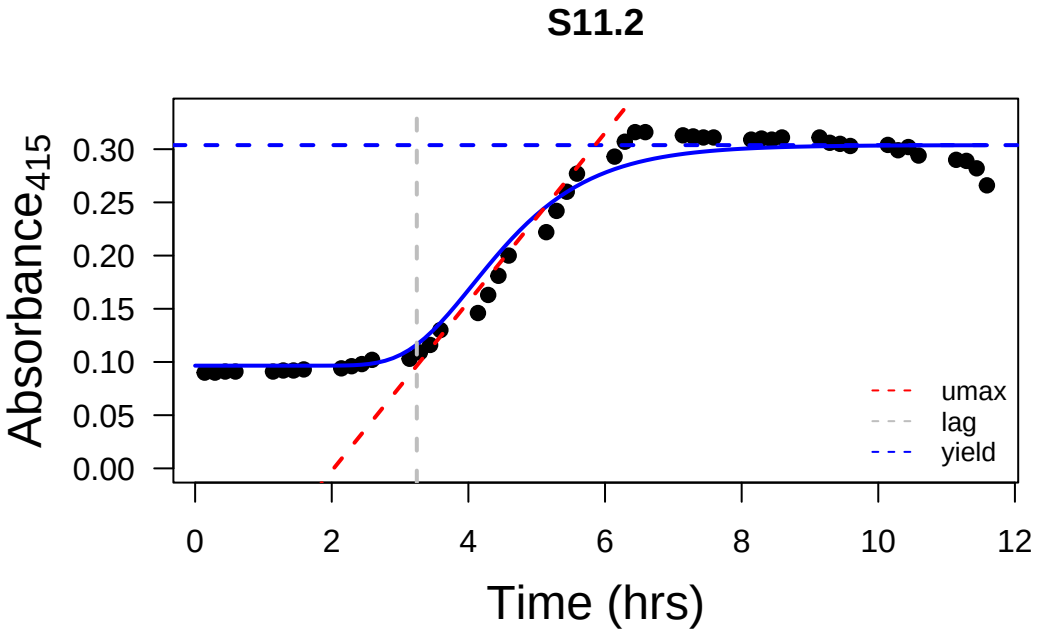

M19.2
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

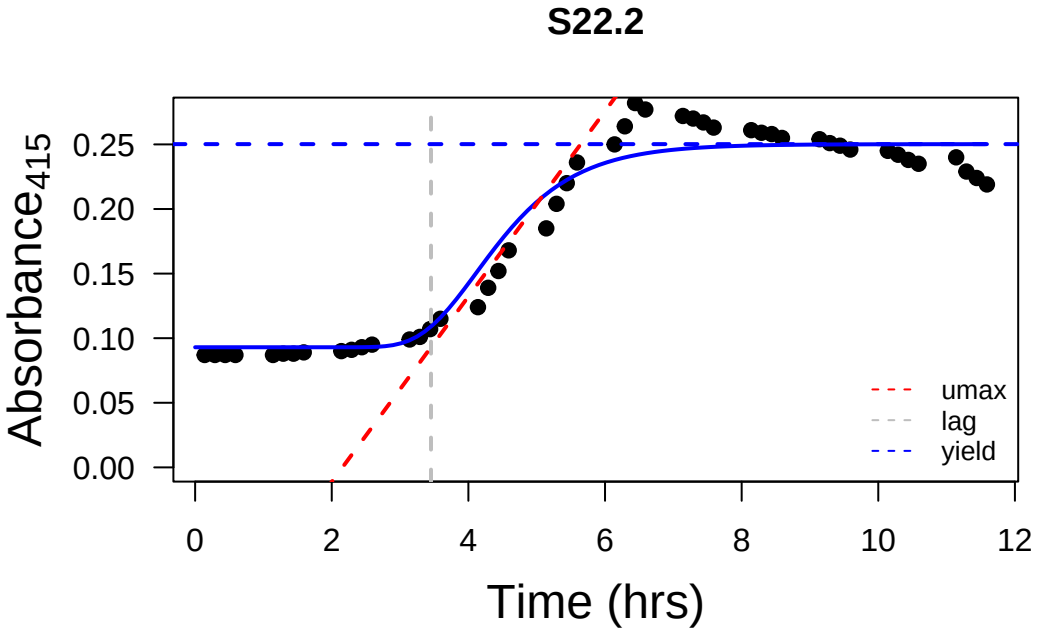

M54.2
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

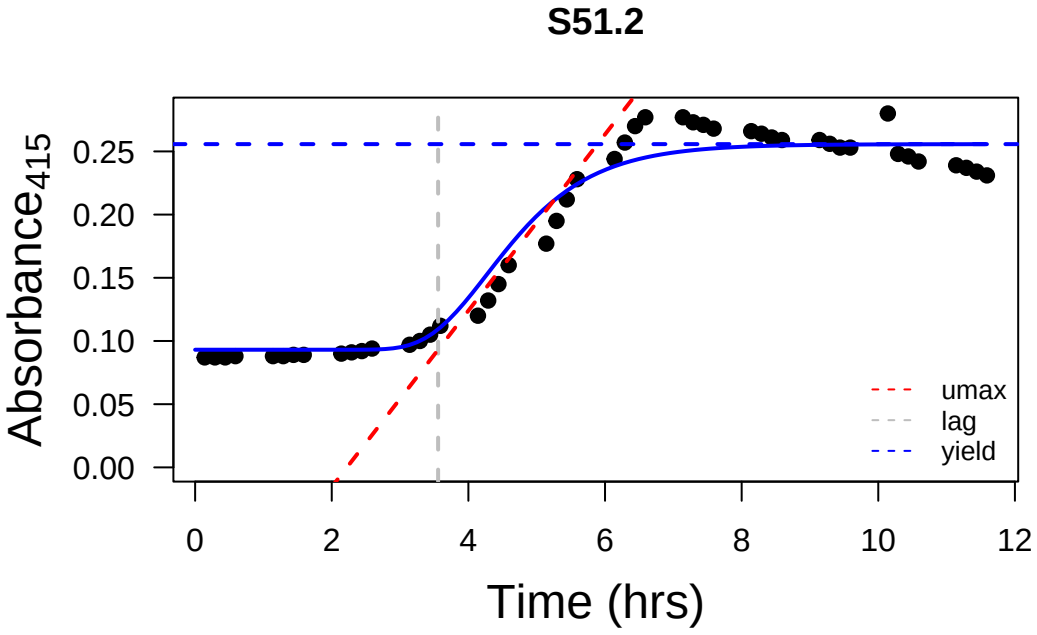

M79.2
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

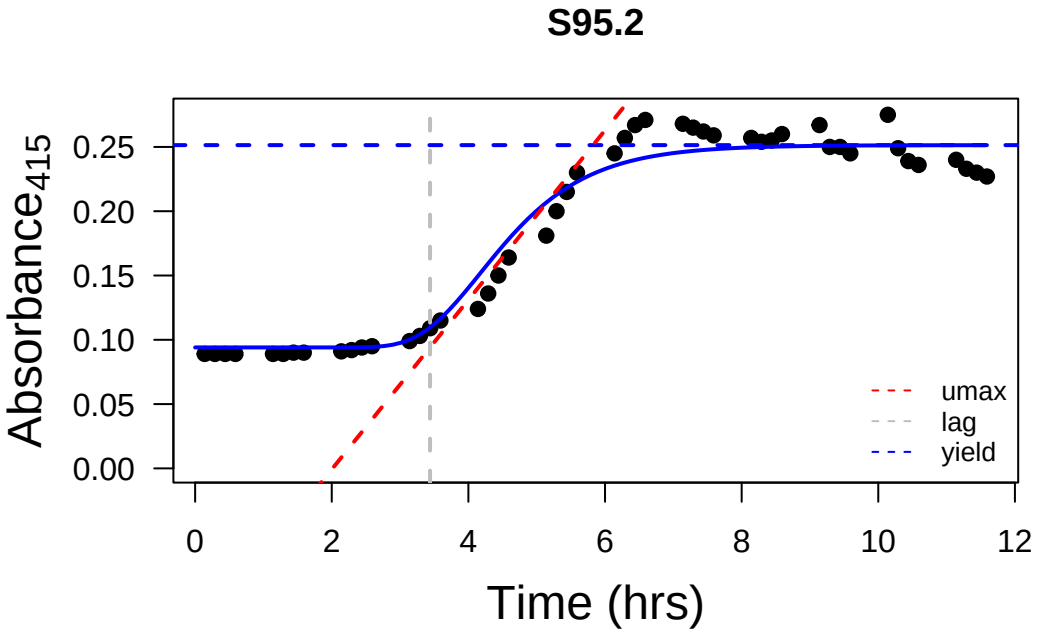

S1.2
Absorbance415
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

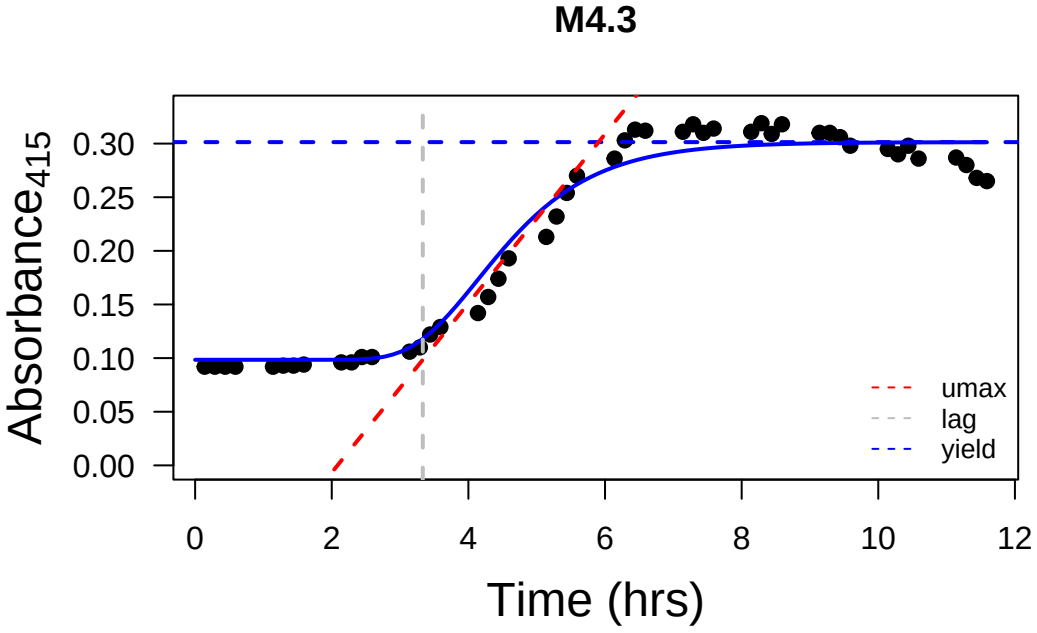

S6.2
Absorbance415
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

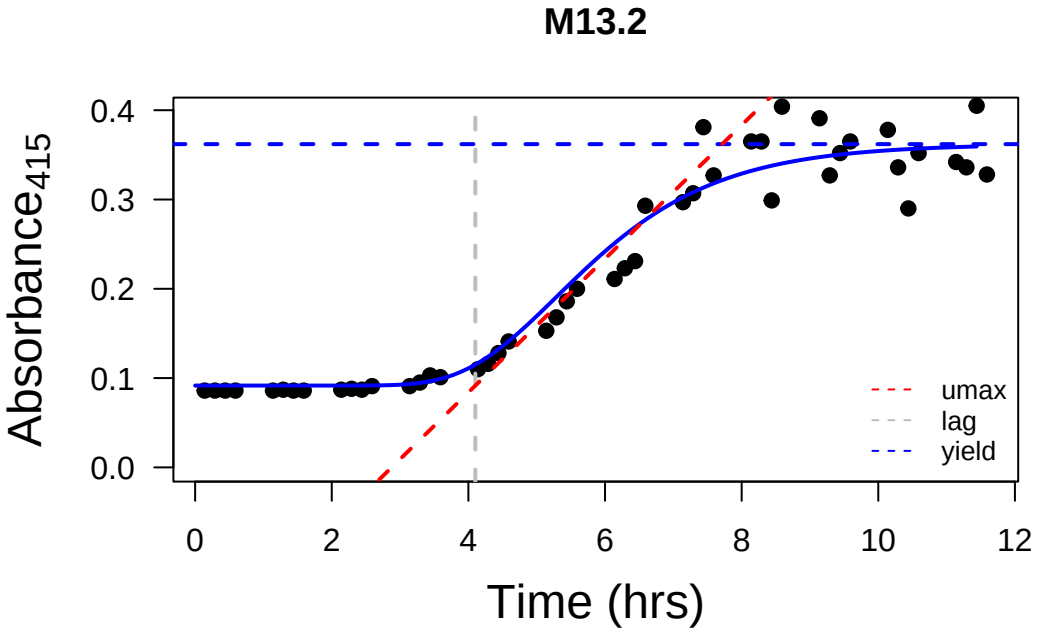

S11.2
Absorbance415
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

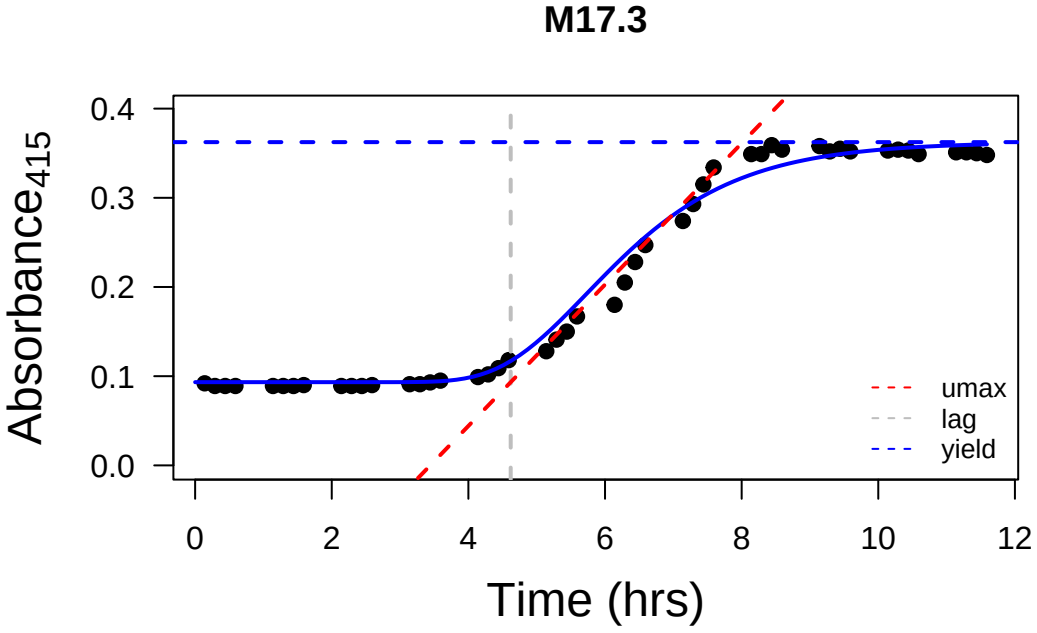

S22.2
Absorbance415
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

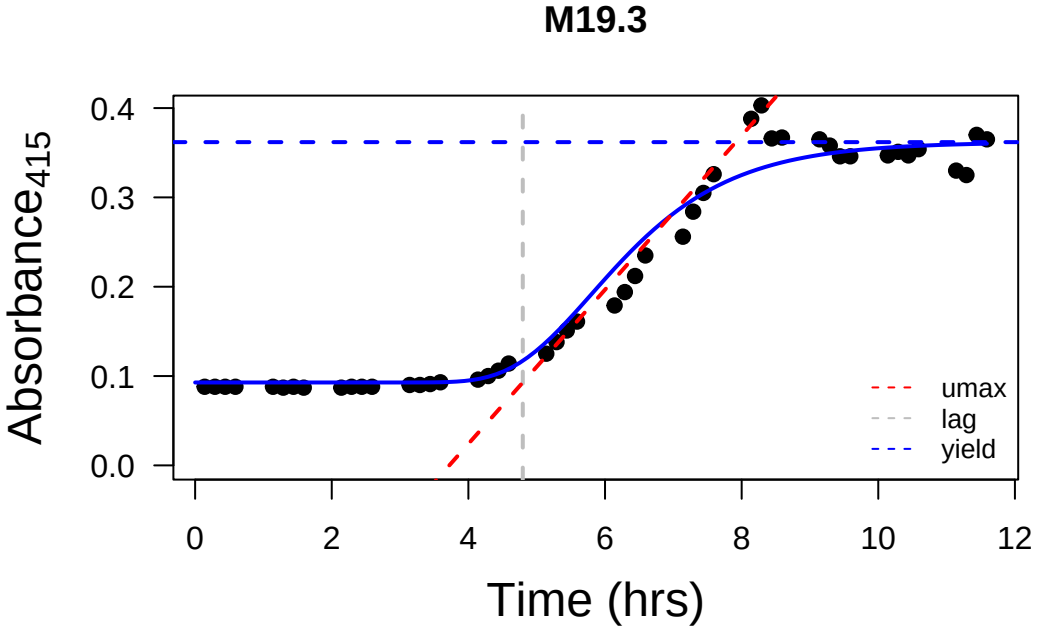

S51.2
Absorbance415
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

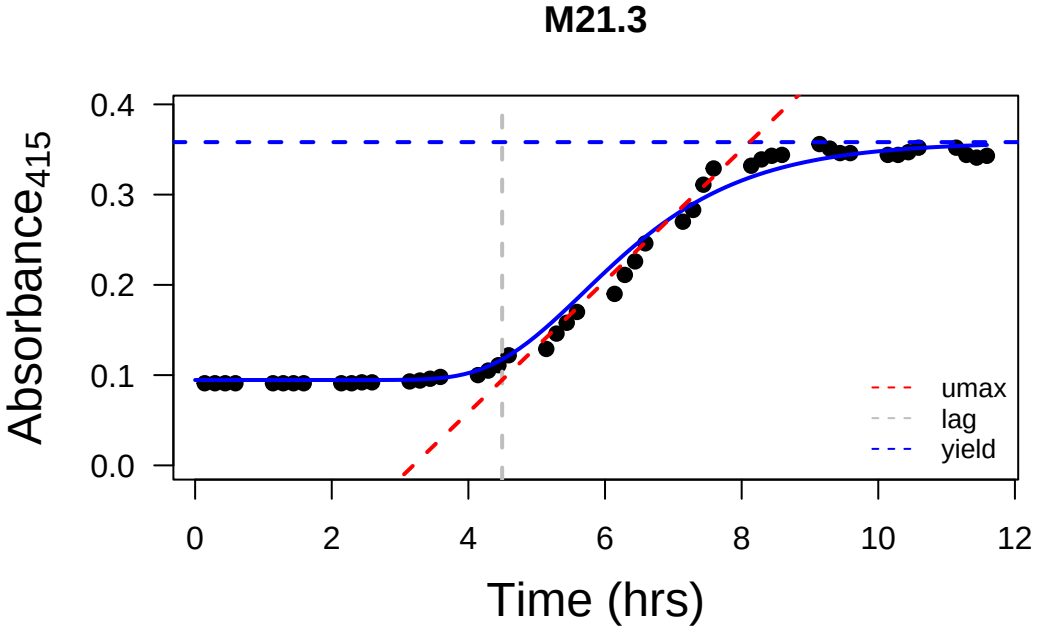

S95.2
Absorbance415
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

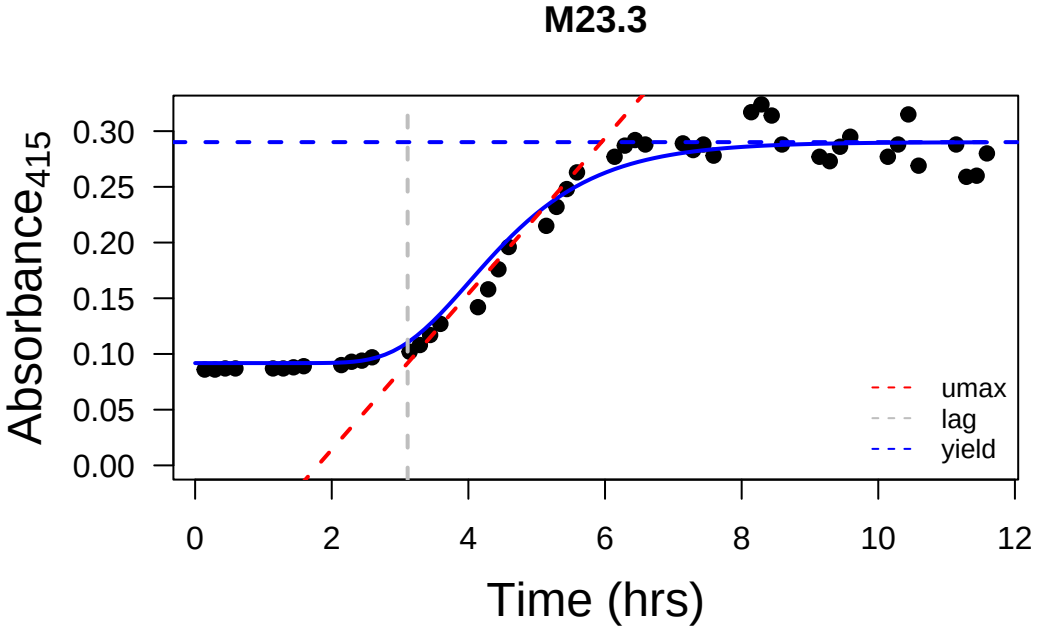

M4.3
Absorbance415
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

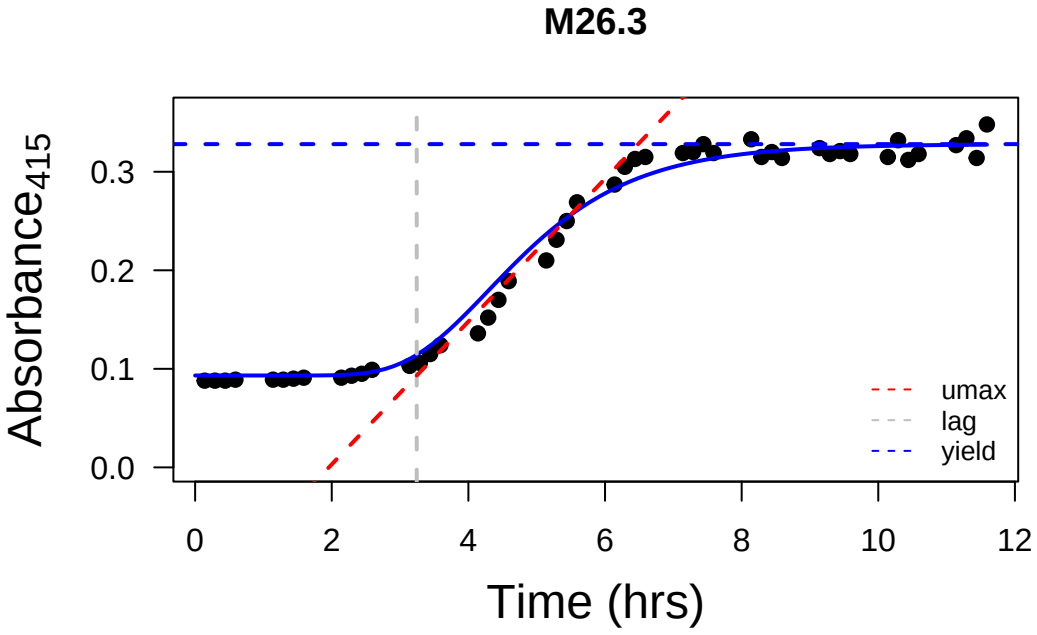

M13.2
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

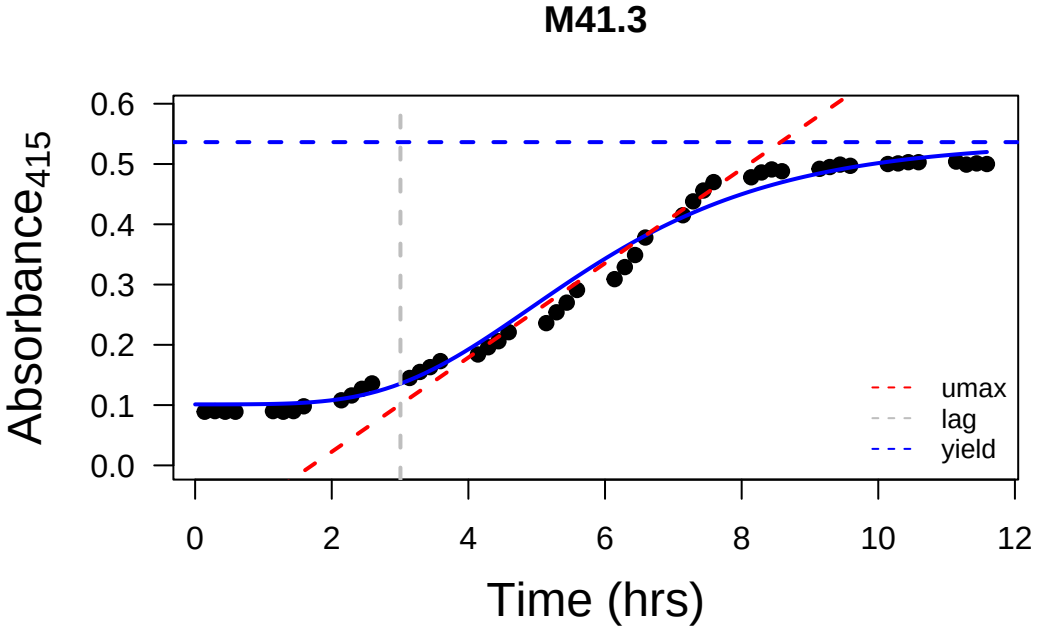

M17.3
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

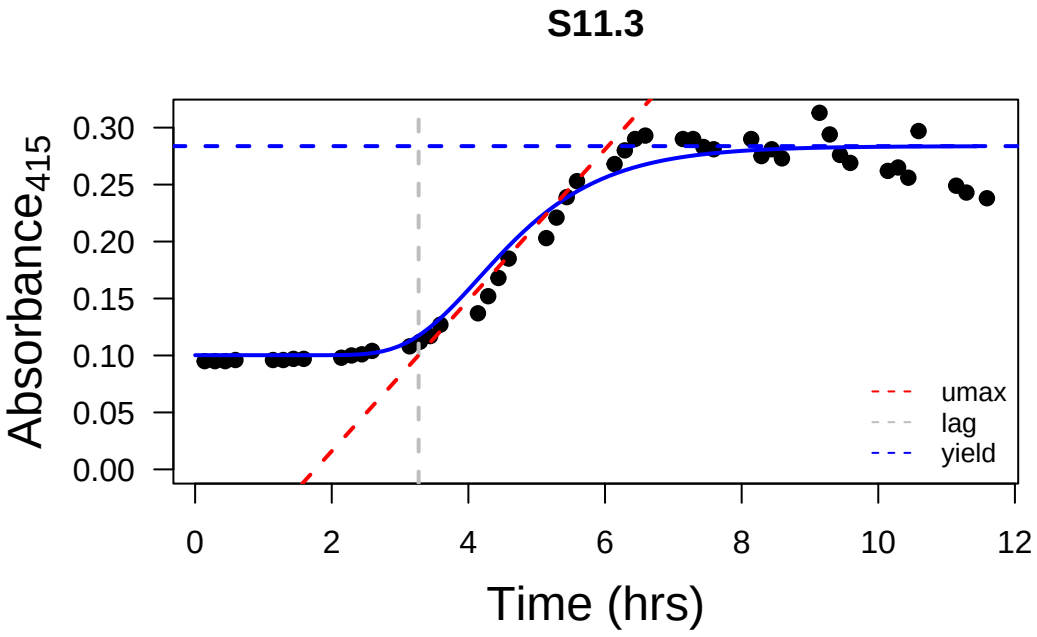

M19.3
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

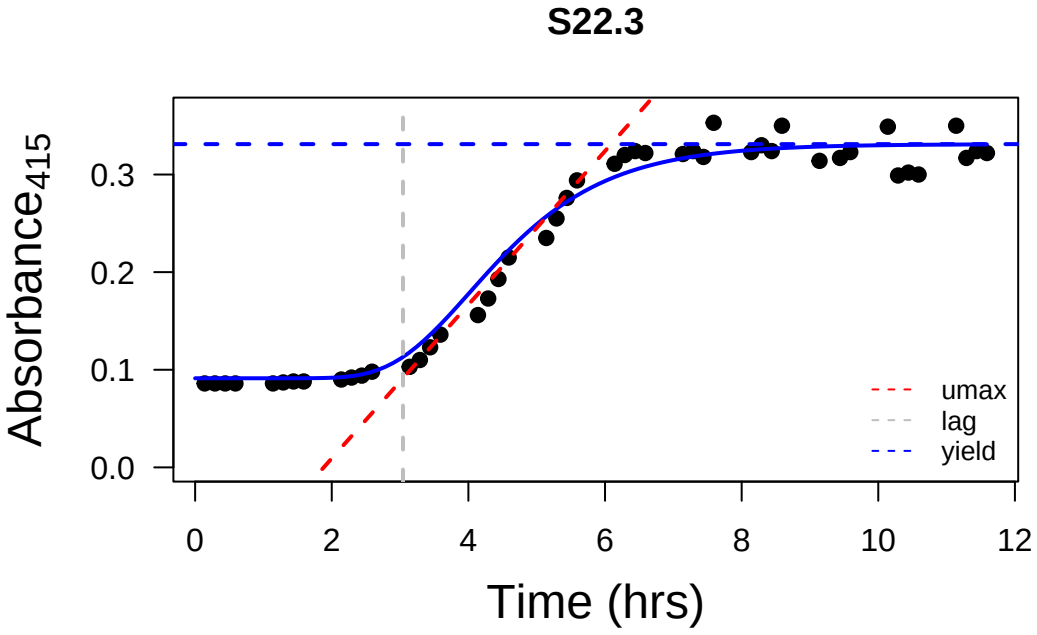

M21.3
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

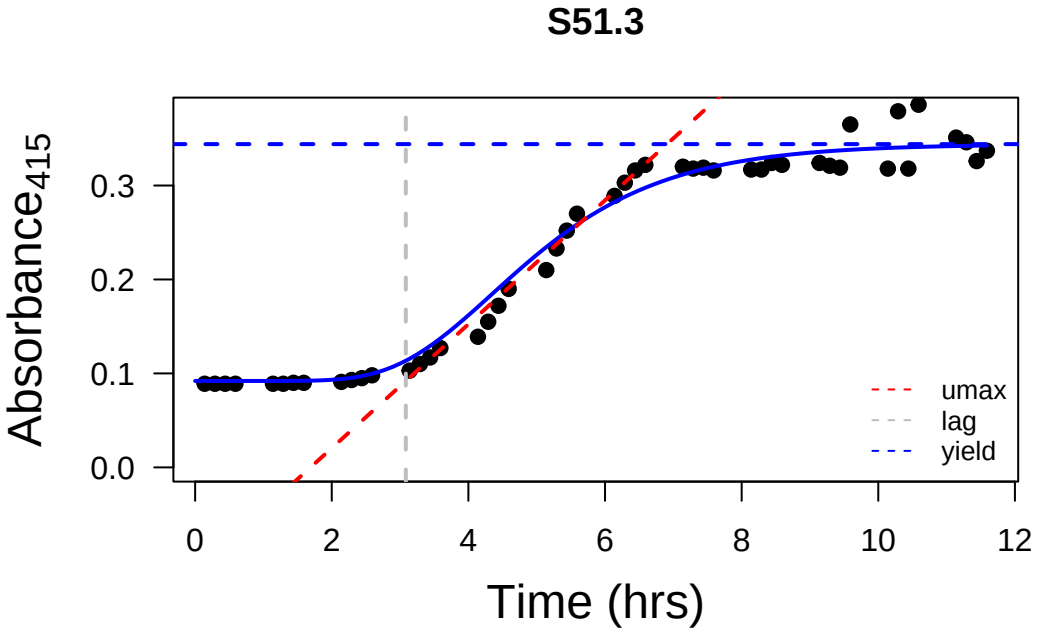

M23.3
Absorbance415
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

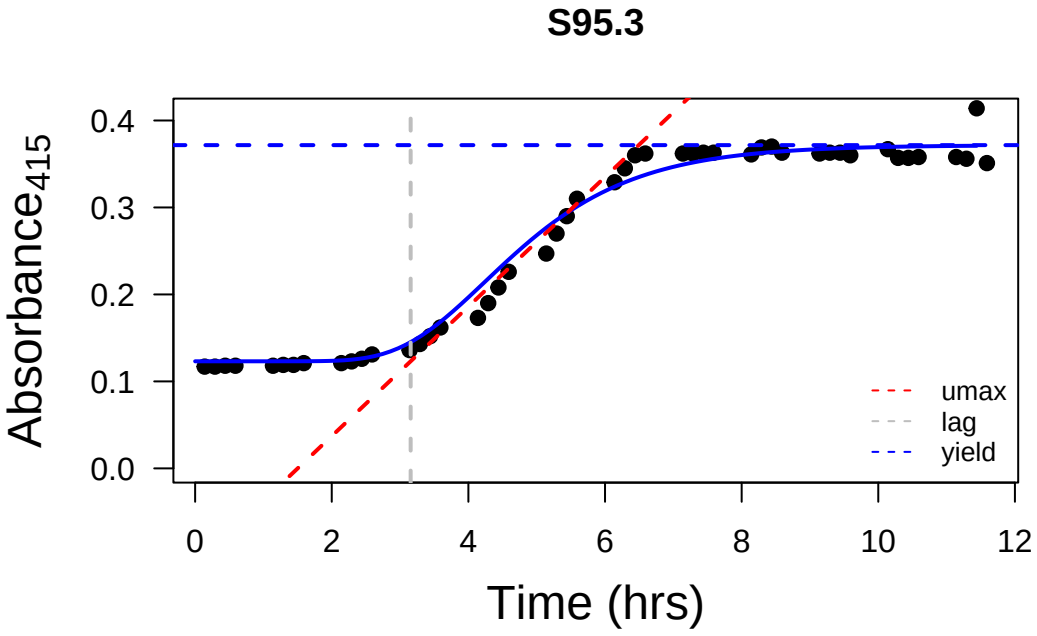

M26.3
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

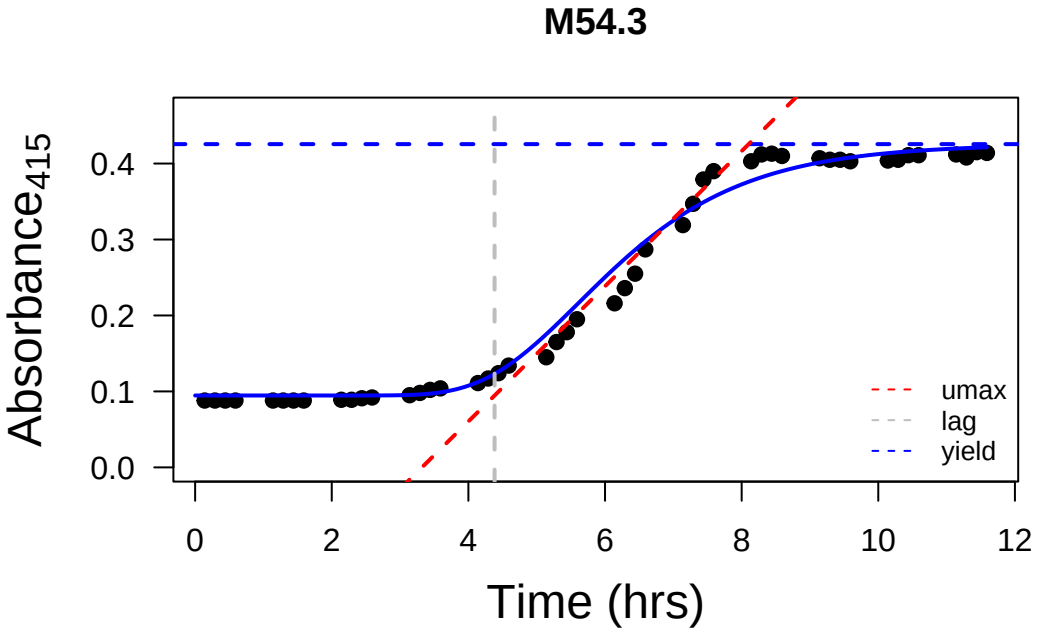

M41.3
Absorbance415
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

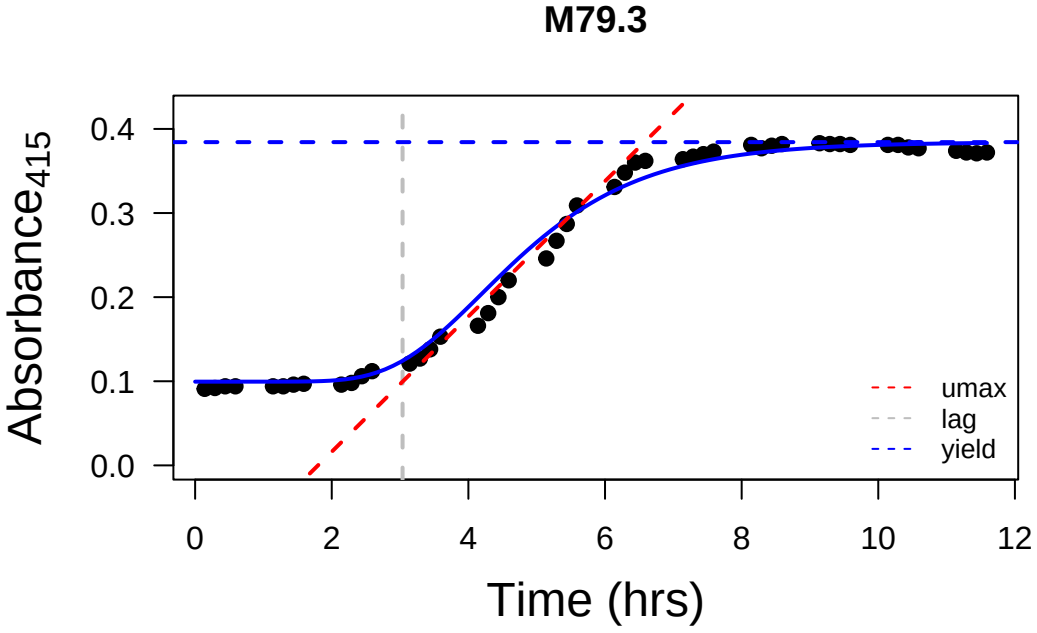

S11.3
Absorbance415
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

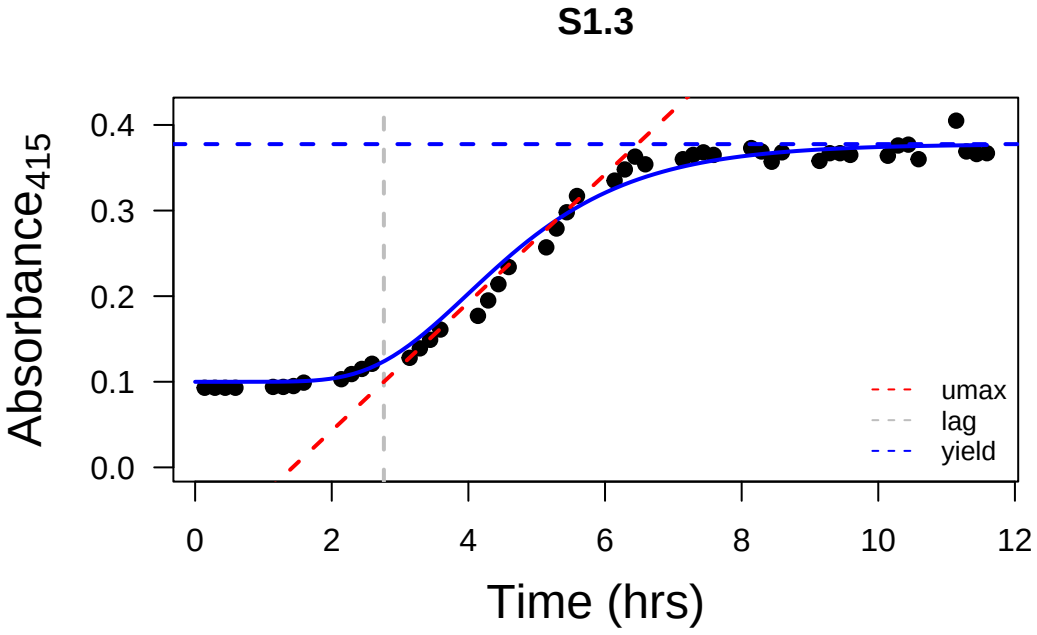

S22.3
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

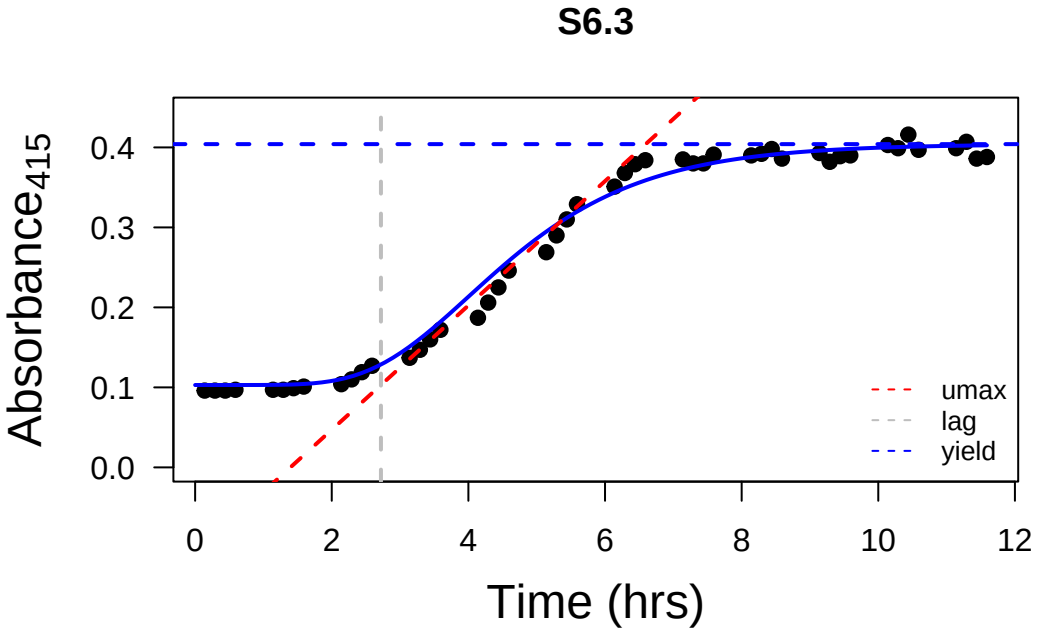

S51.3
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

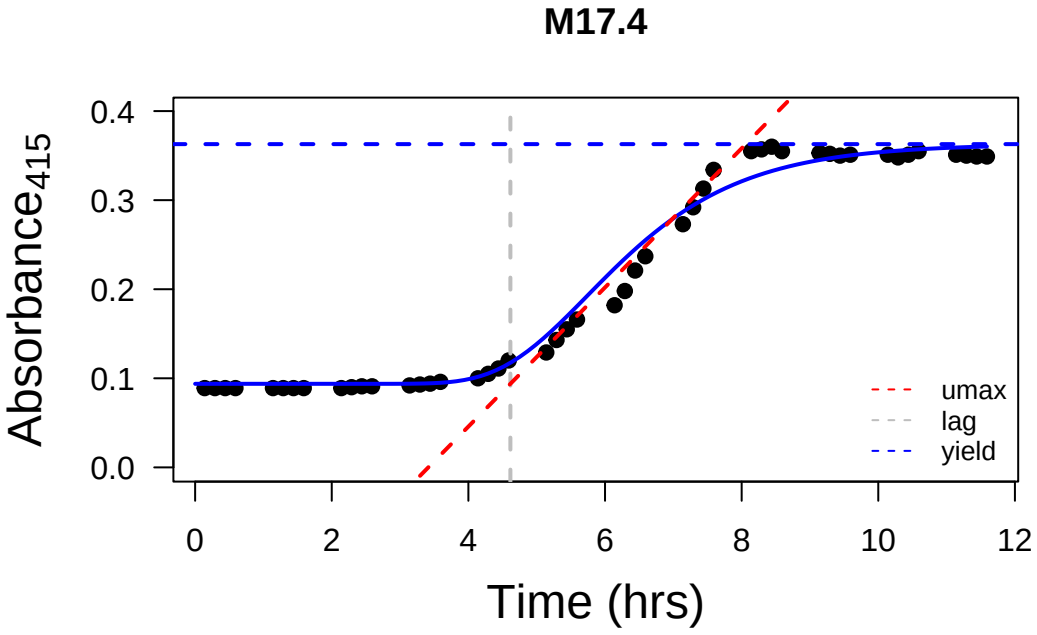

S95.3
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

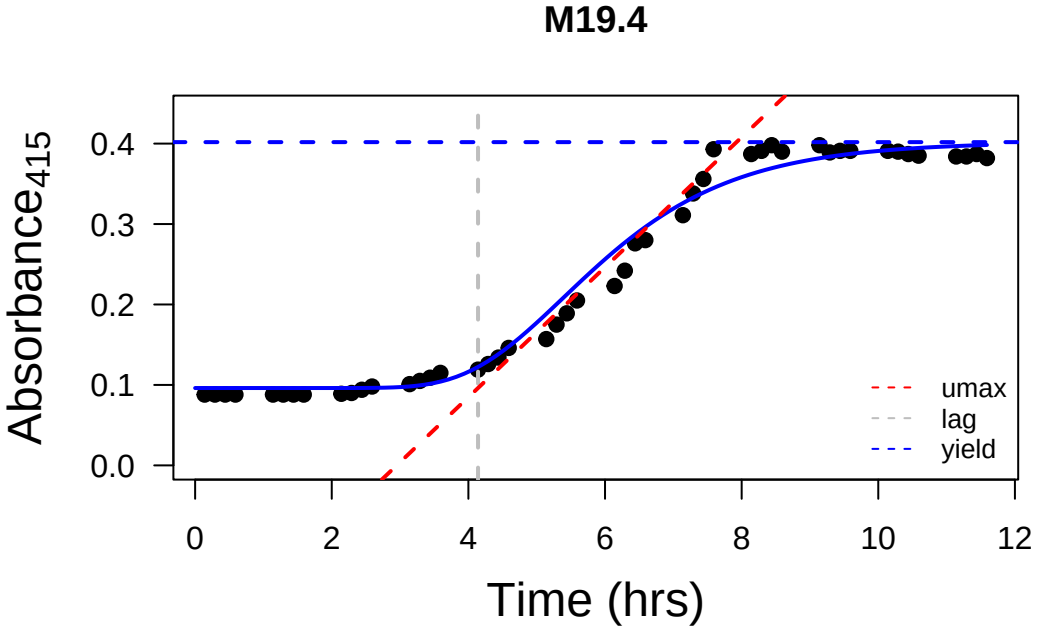

M54.3
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

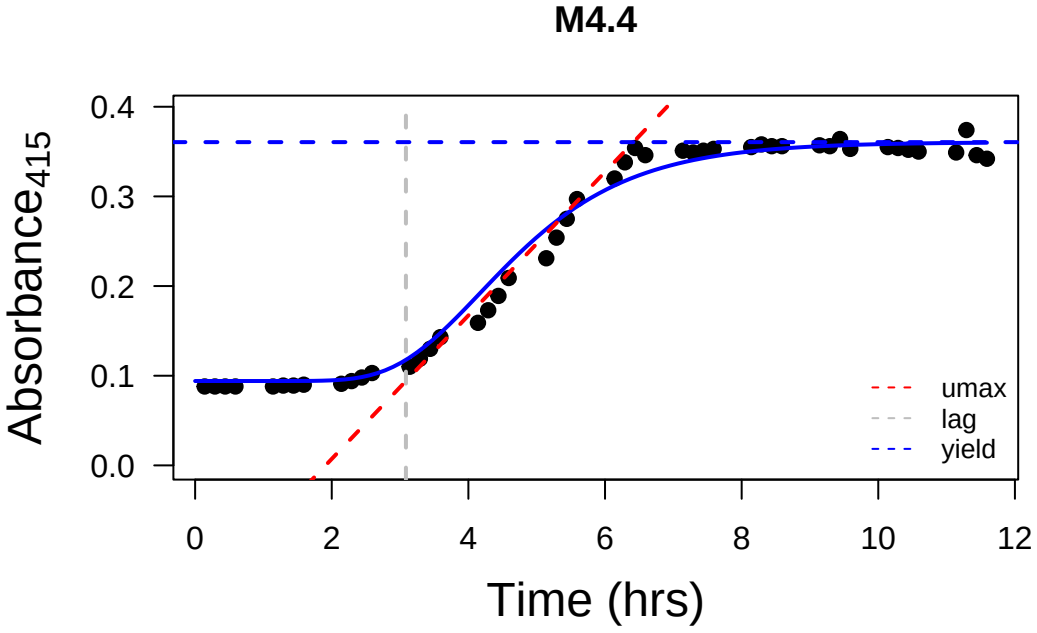

M79.3
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

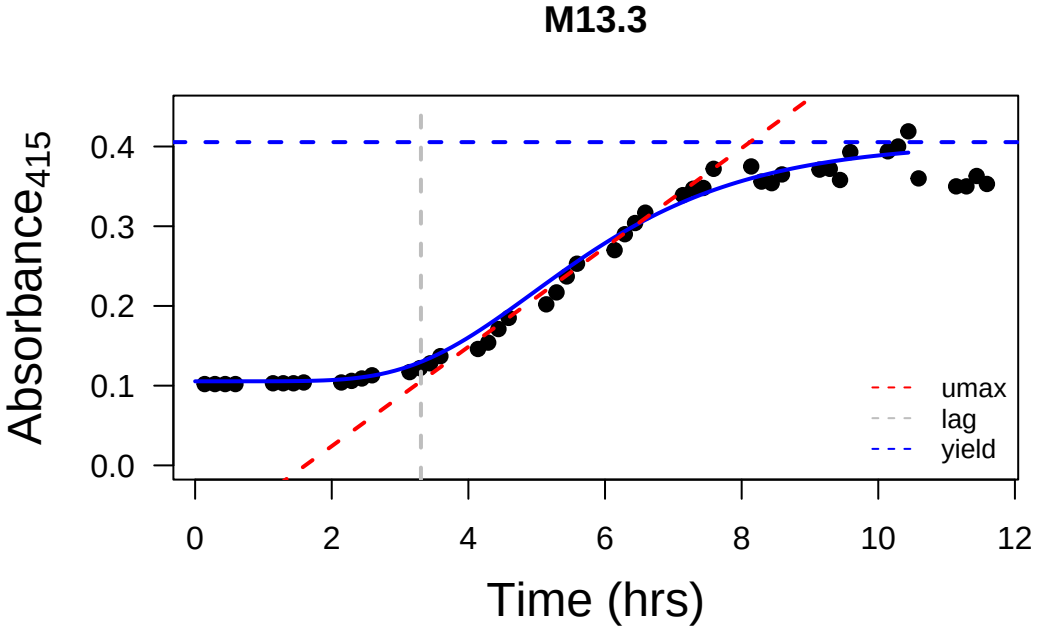

S1.3
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

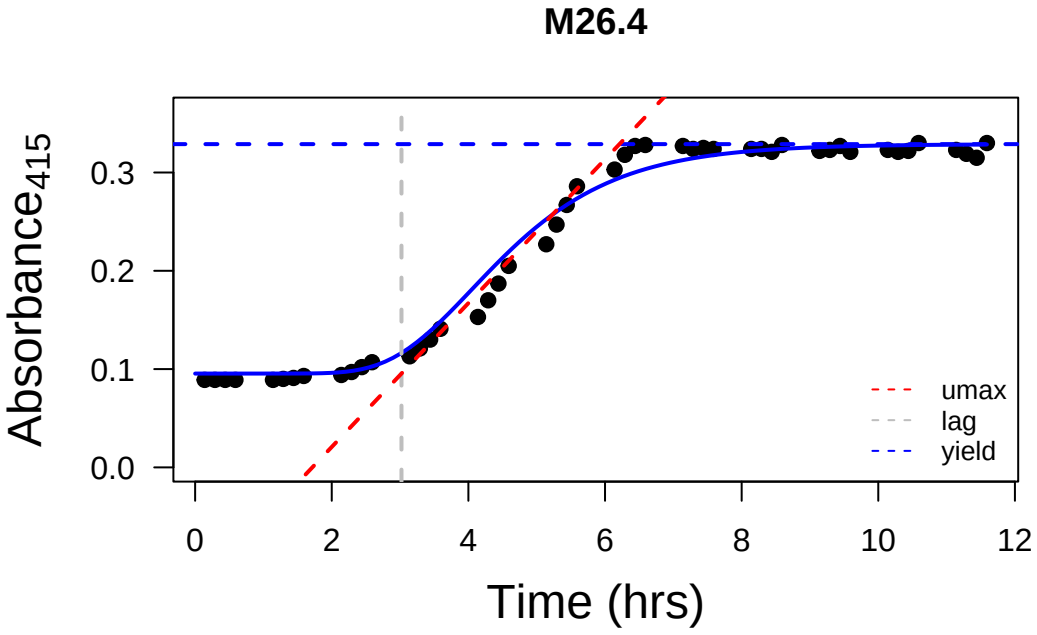

S6.3
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

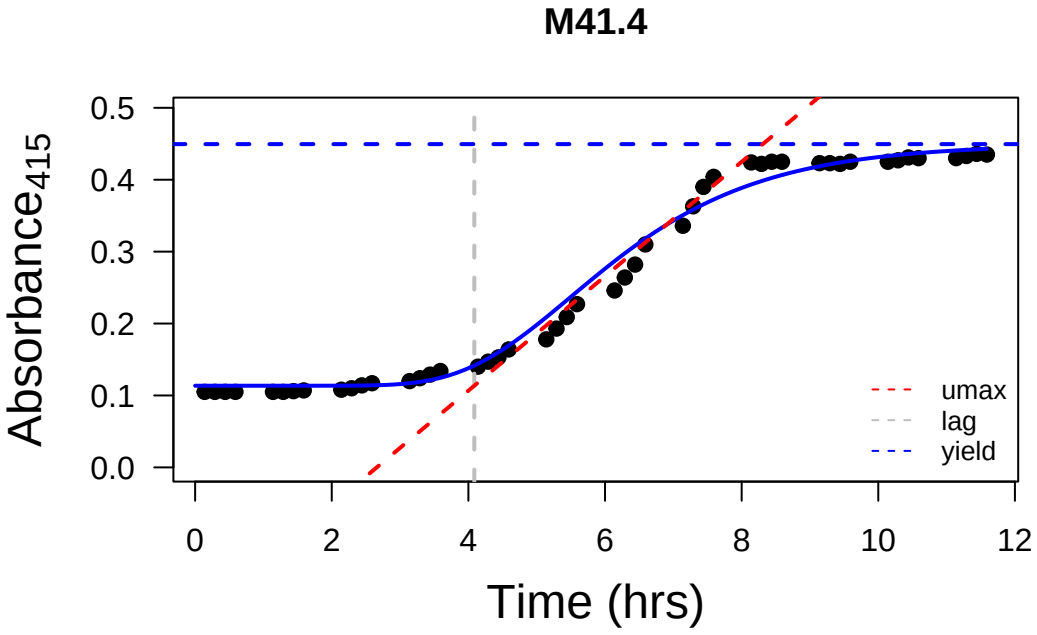

M17.4
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

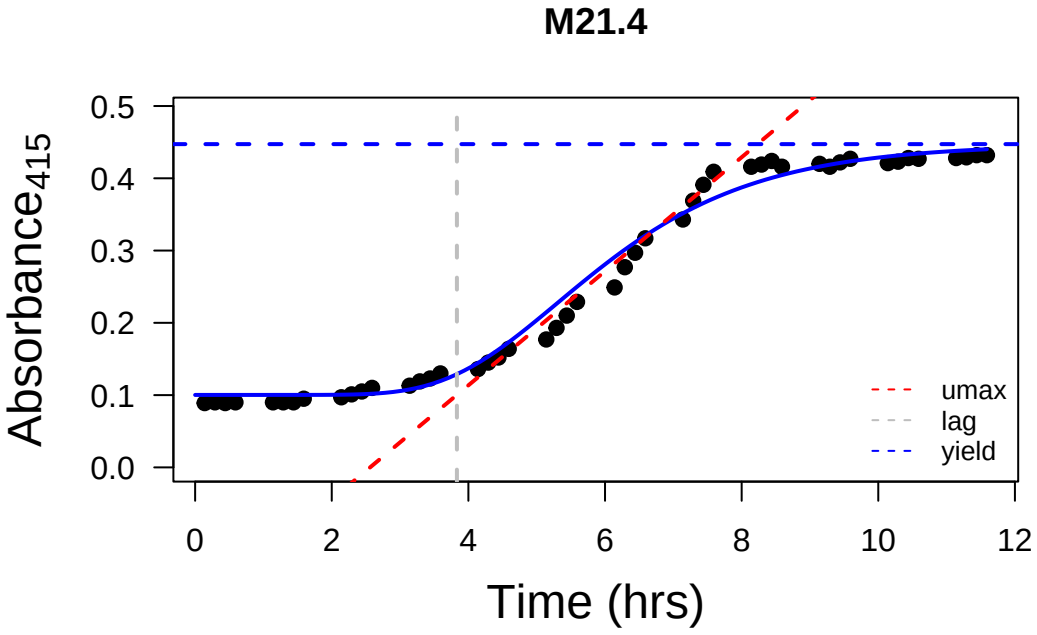

M19.4
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

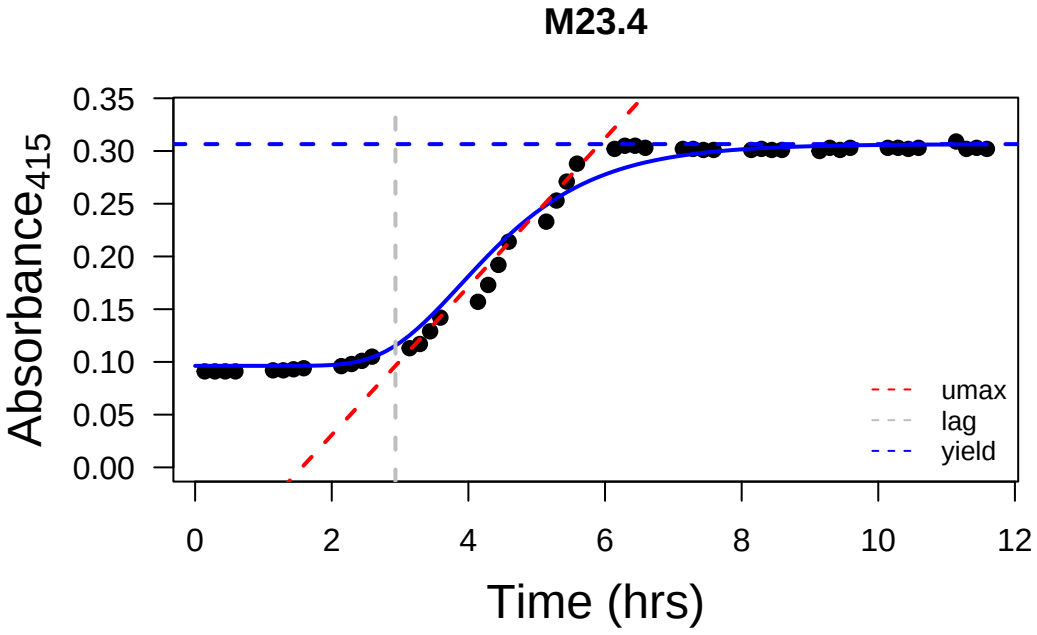

M4.4
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

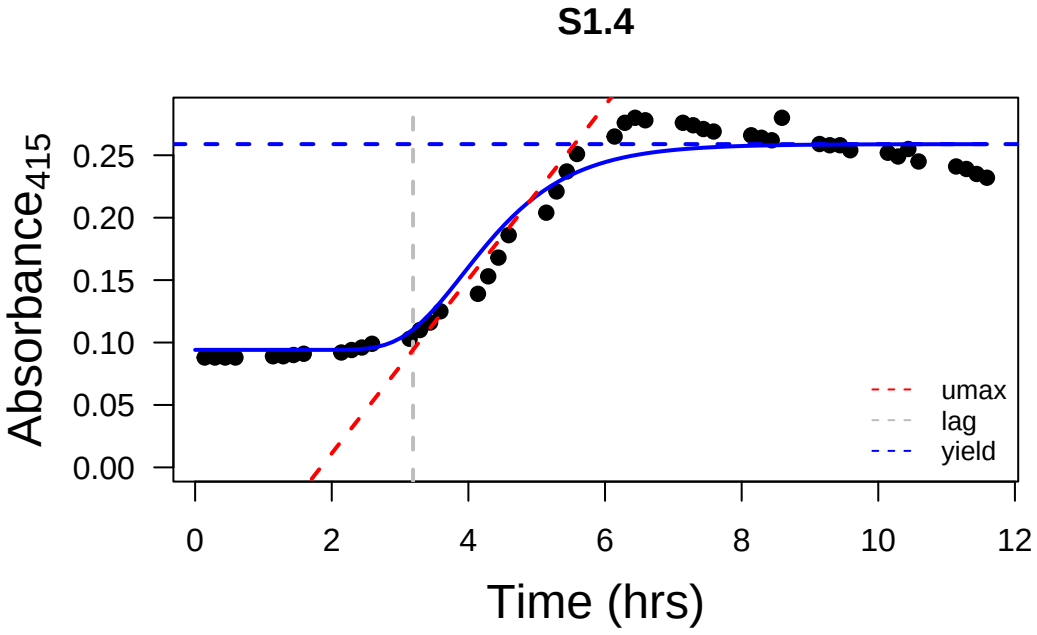

M13.3
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

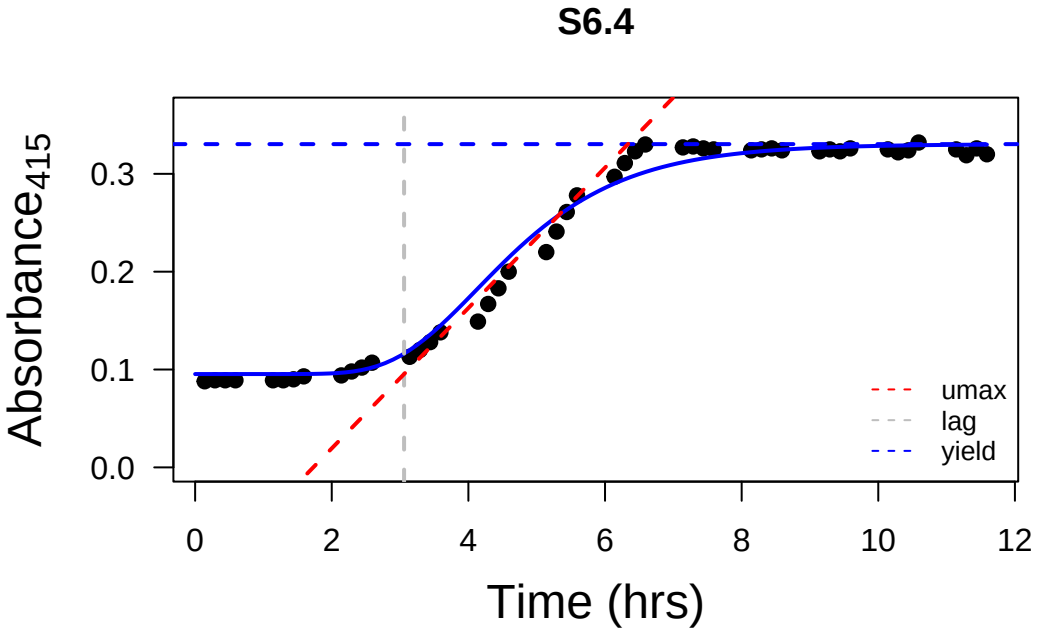

M26.4
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

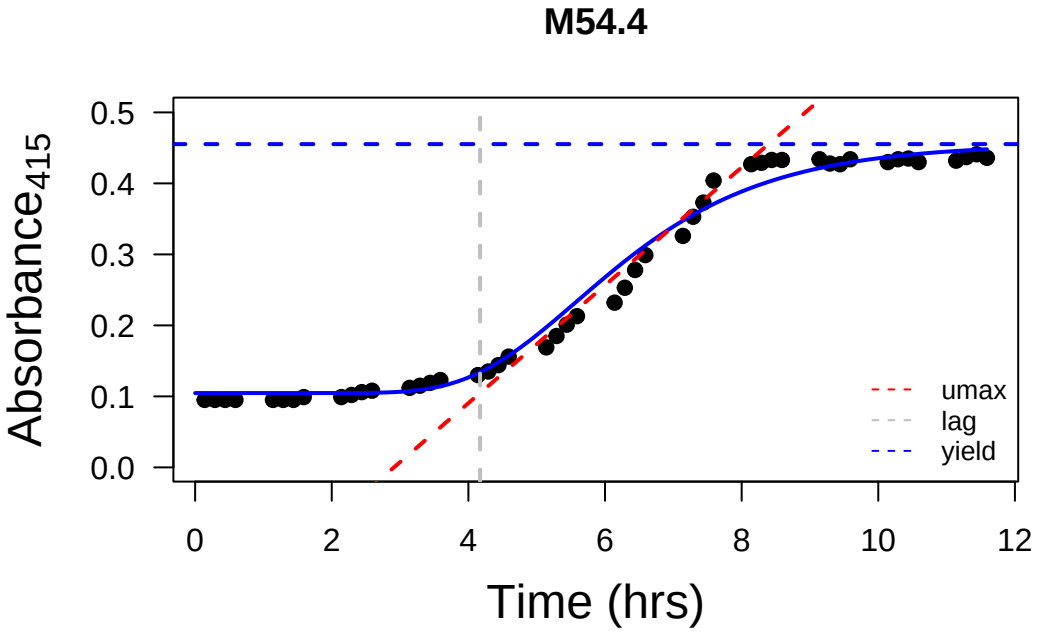

M41.4
Absorbance415
0.5
0.4
0.3
0.2
0.1
0.0
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

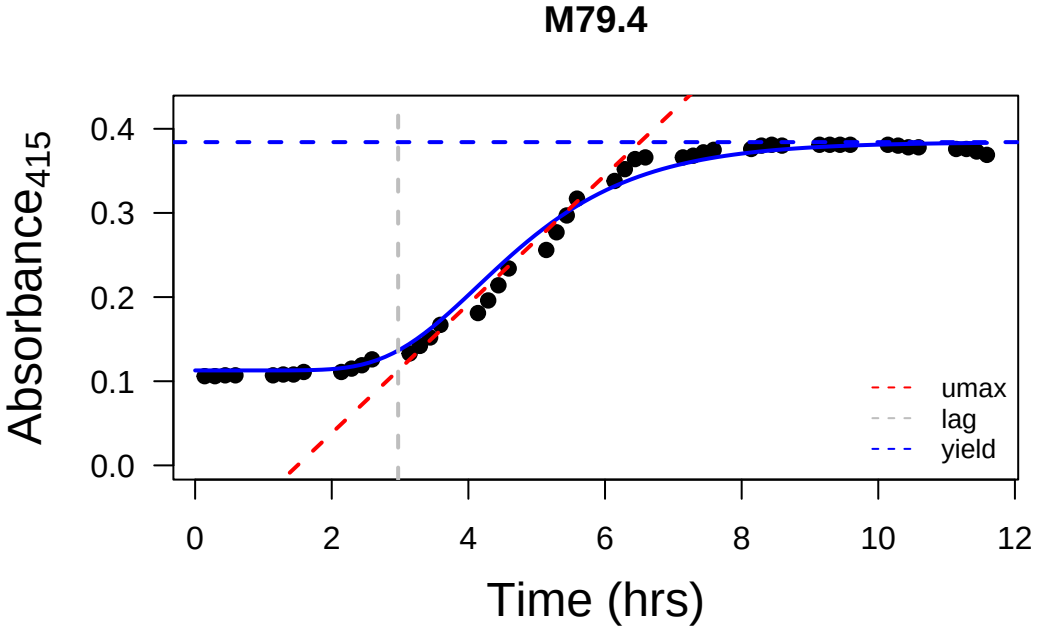

M21.4
Absorbance415
0.5
0.4
0.3
0.2
0.1
0.0
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

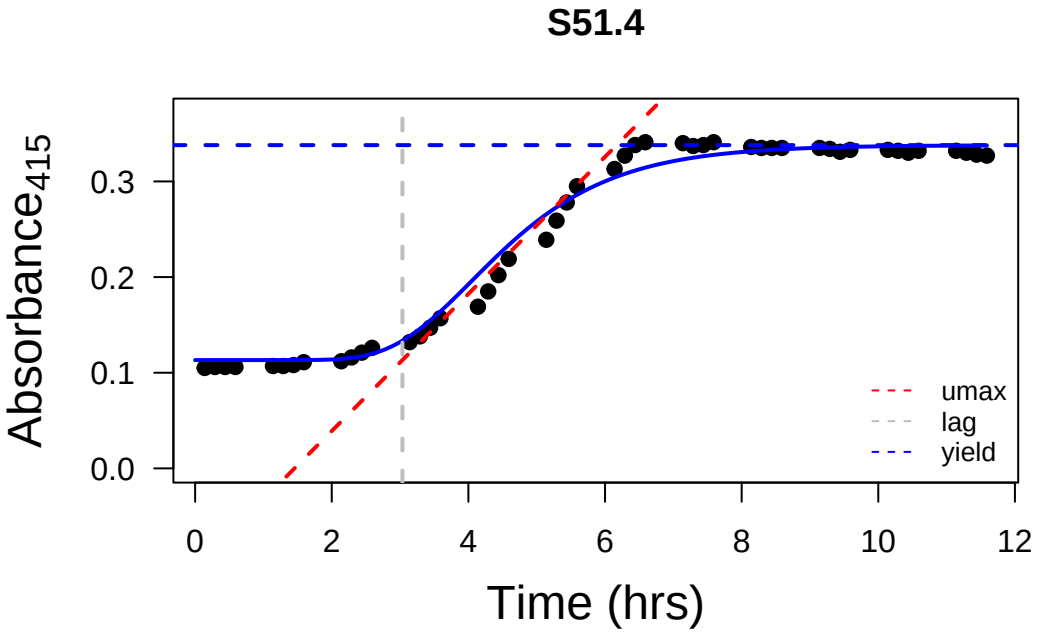

M23.4
Absorbance415
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

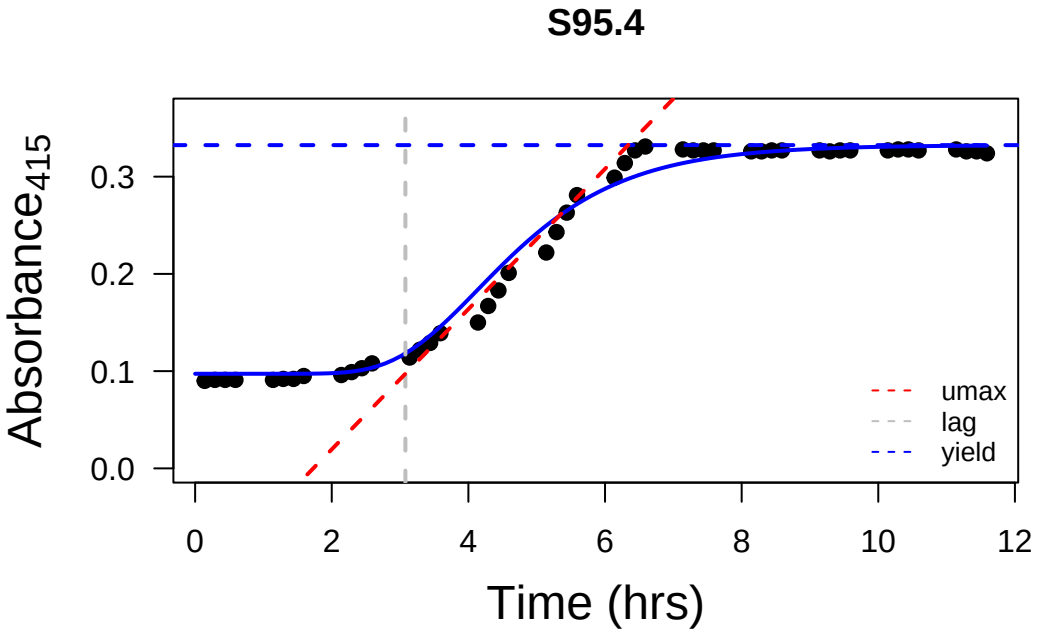

S1.4
Absorbance415
0.00
0.05
0.10
0.15
0.20
0.25
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

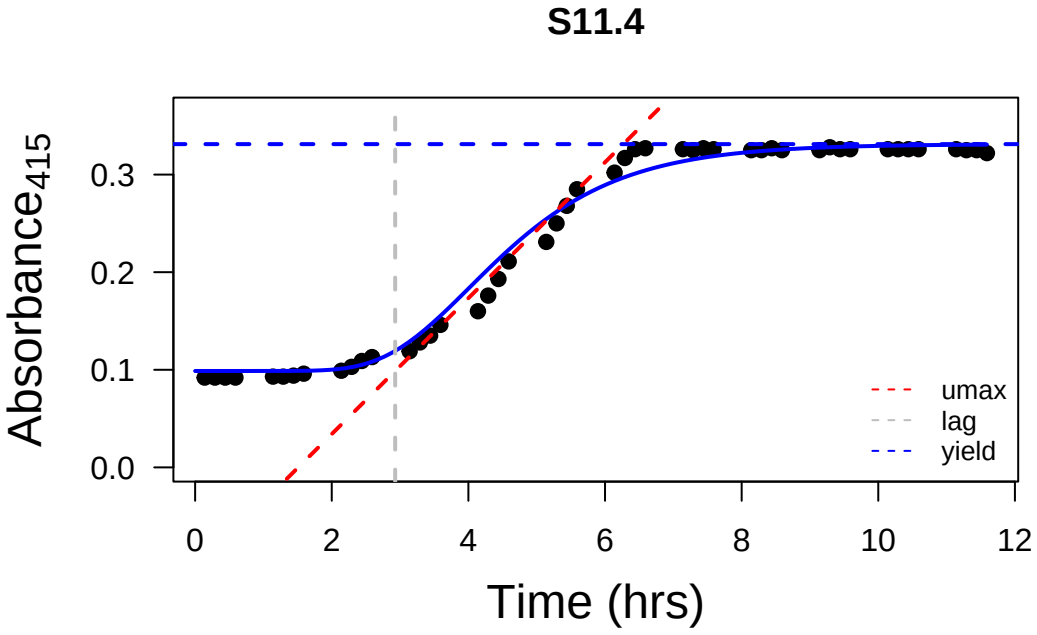

S6.4
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

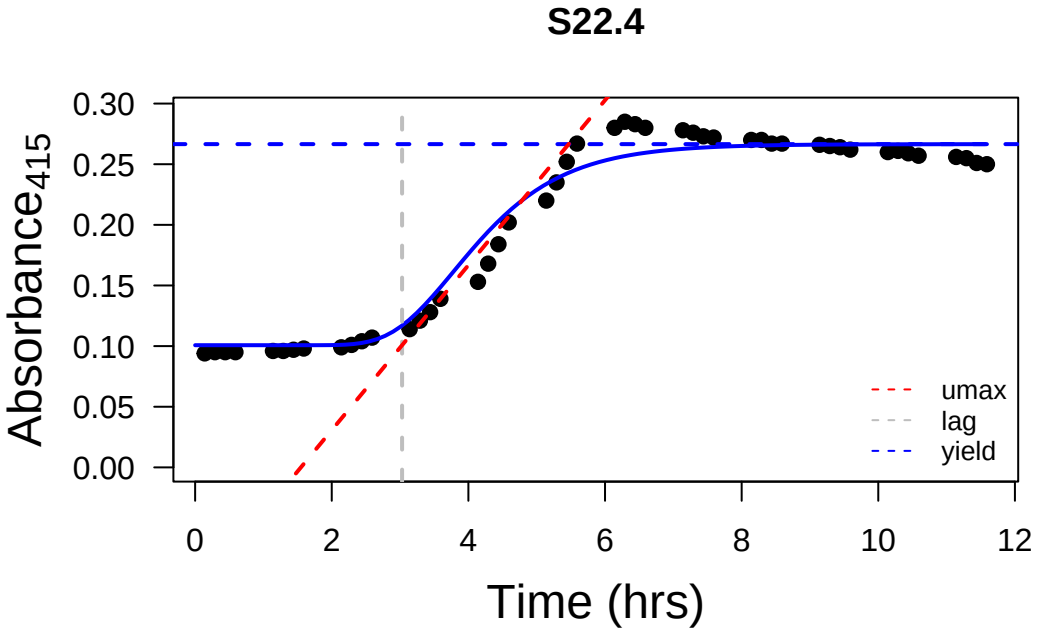

M54.4
Absorbance415
0.5
0.4
0.3
0.2
0.1
0.0
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

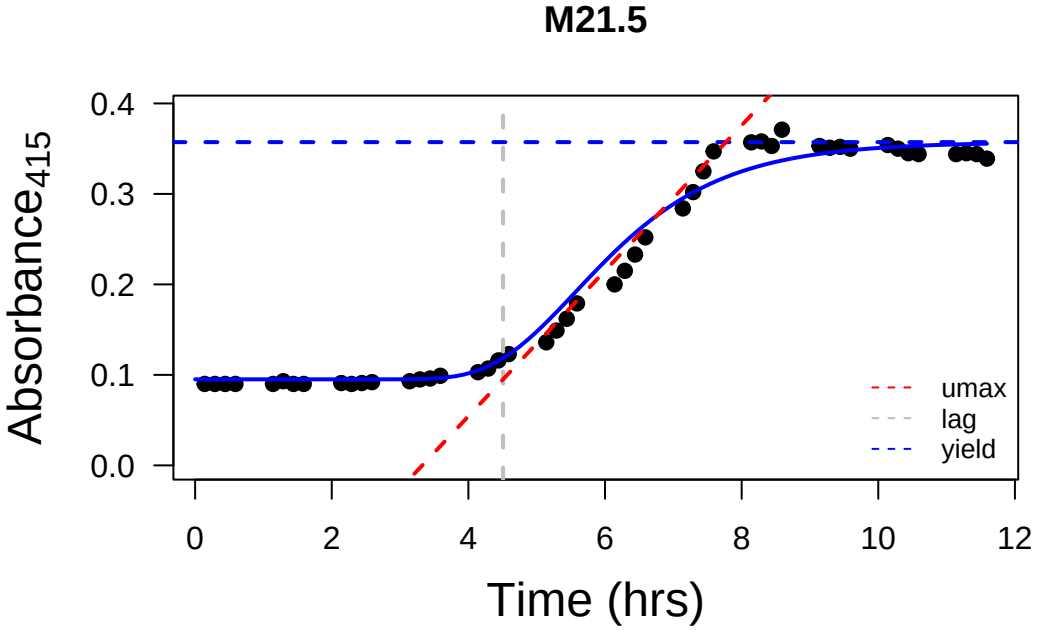

M79.4
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

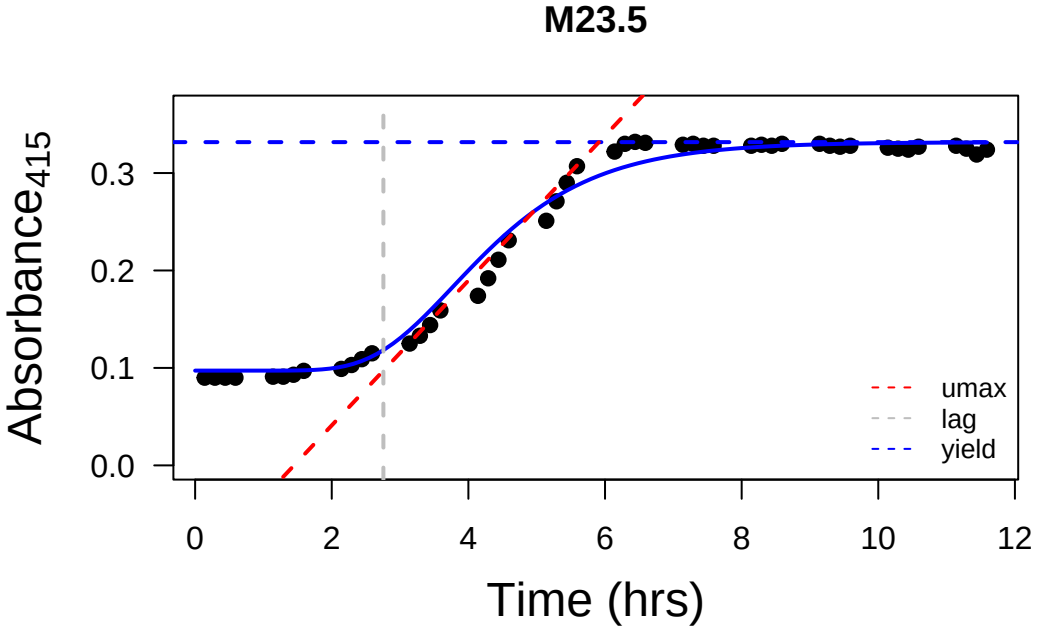

S51.4
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

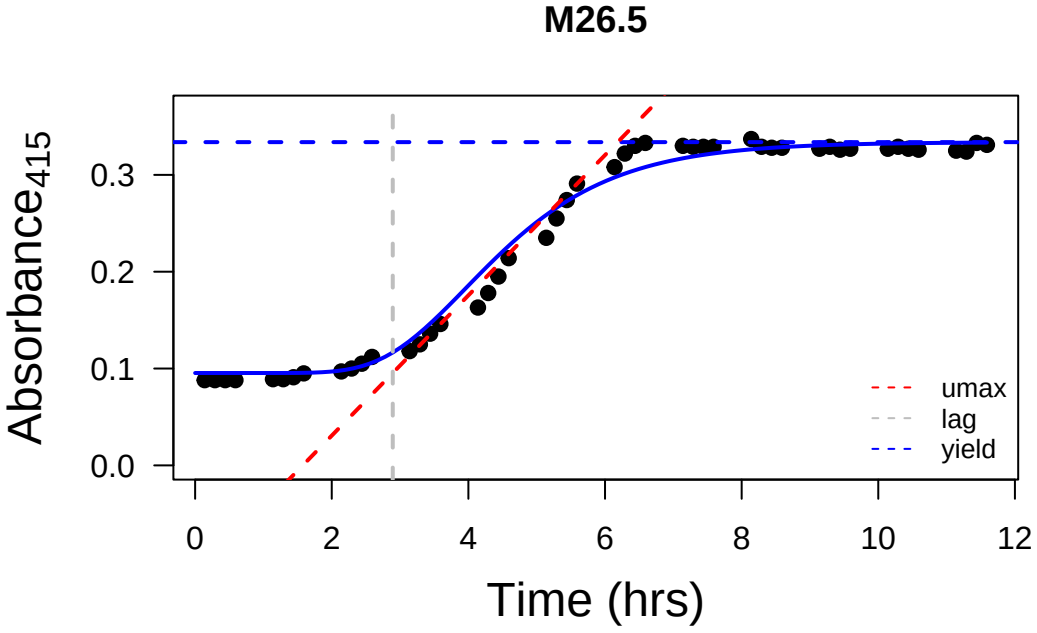

S95.4
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

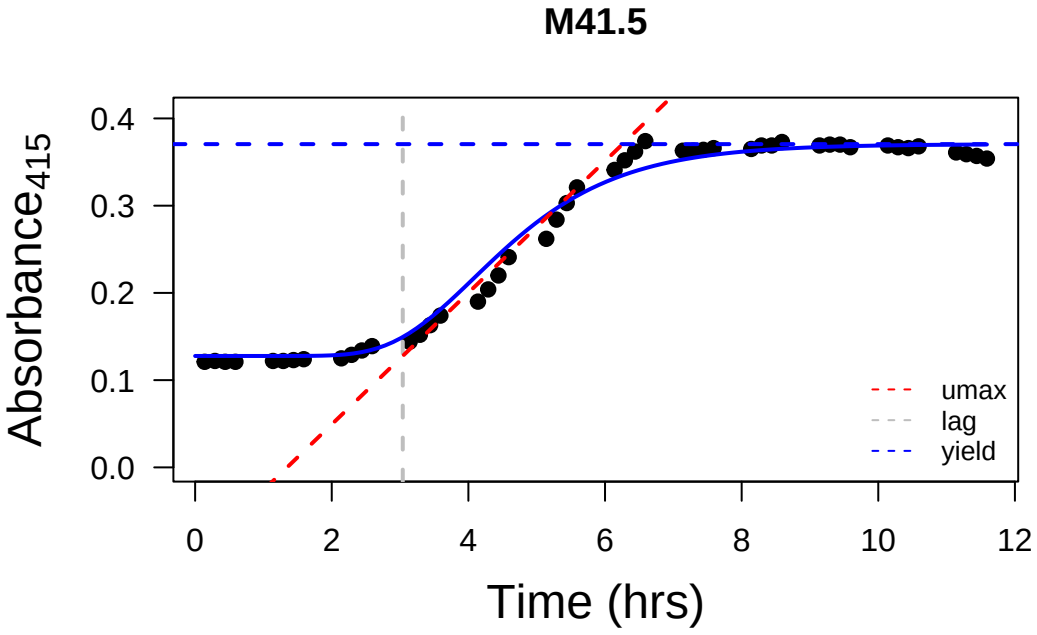

S11.4
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

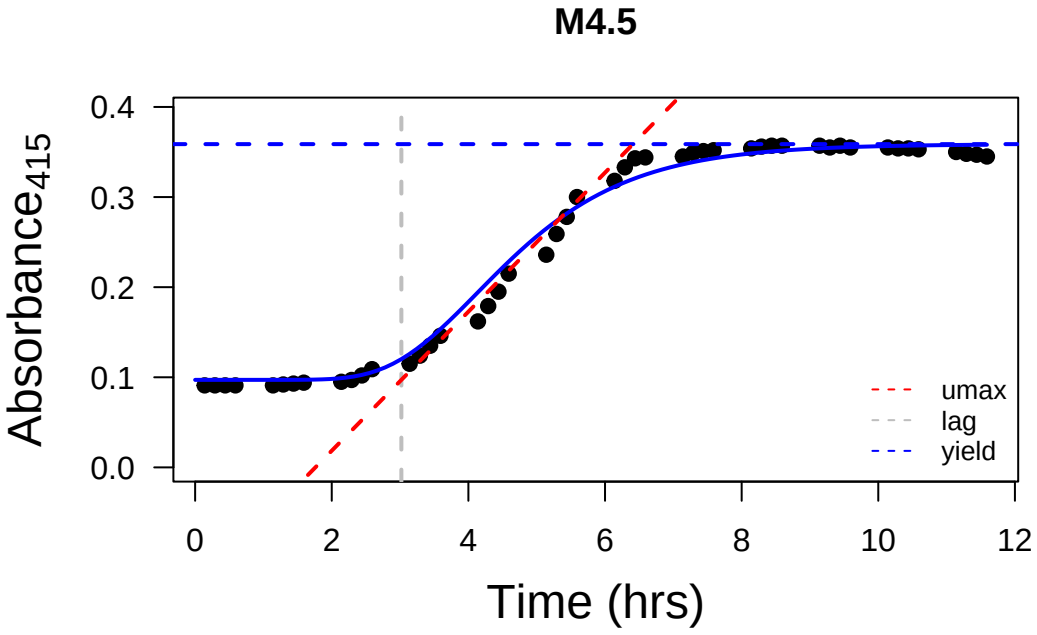

S22.4
Absorbance415
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

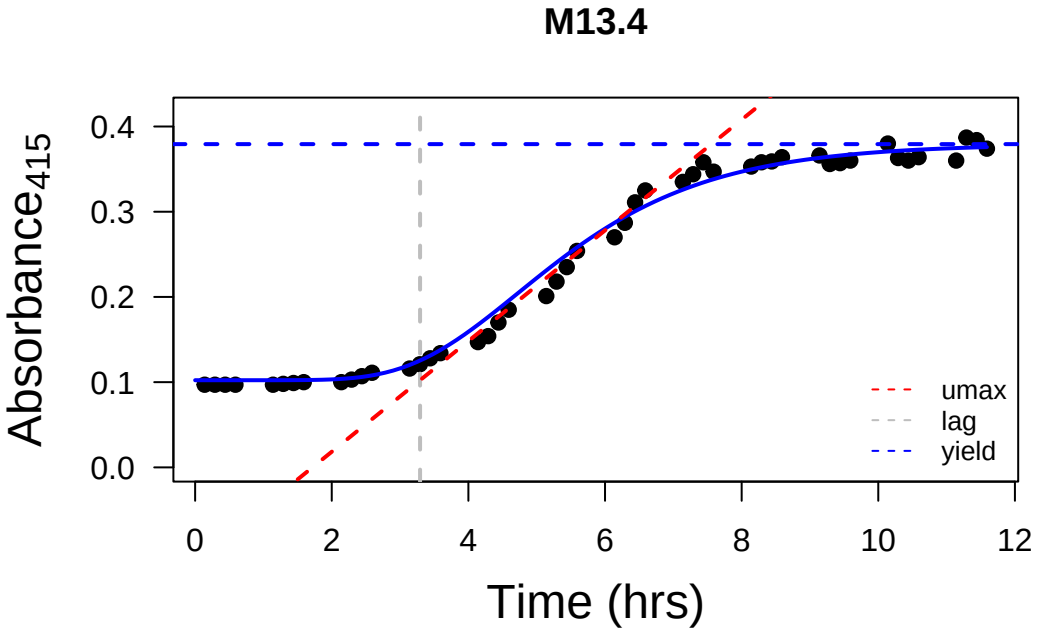

M21.5
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

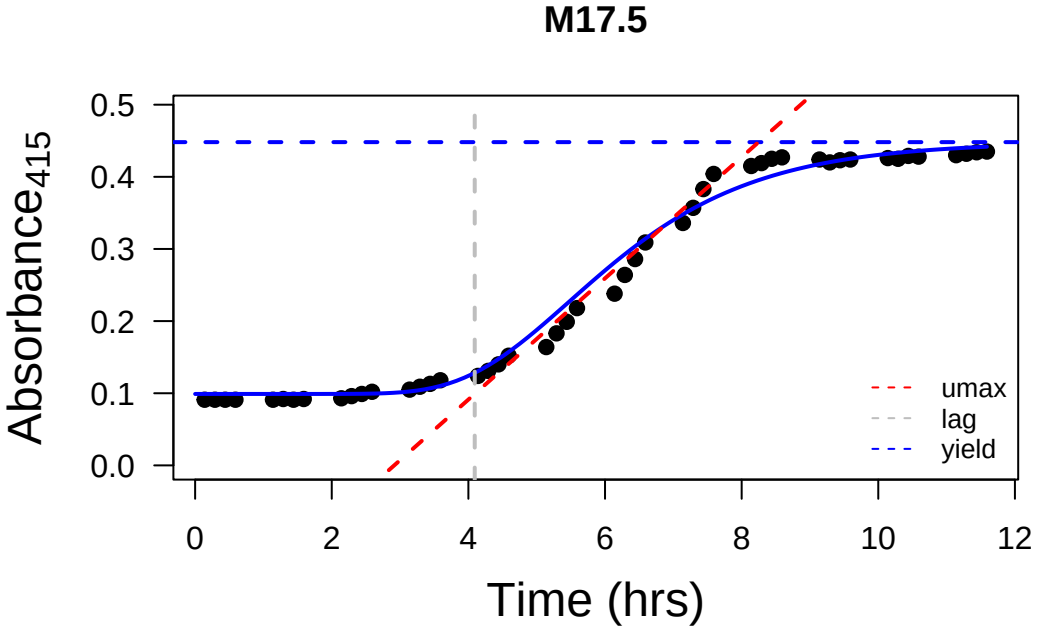

M23.5
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

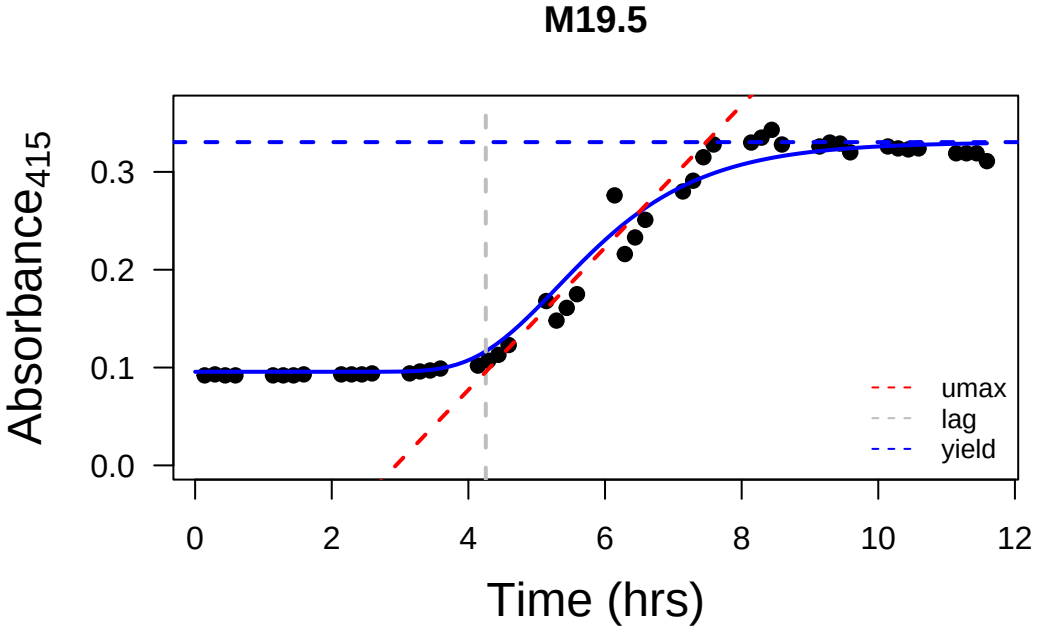

M26.5
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

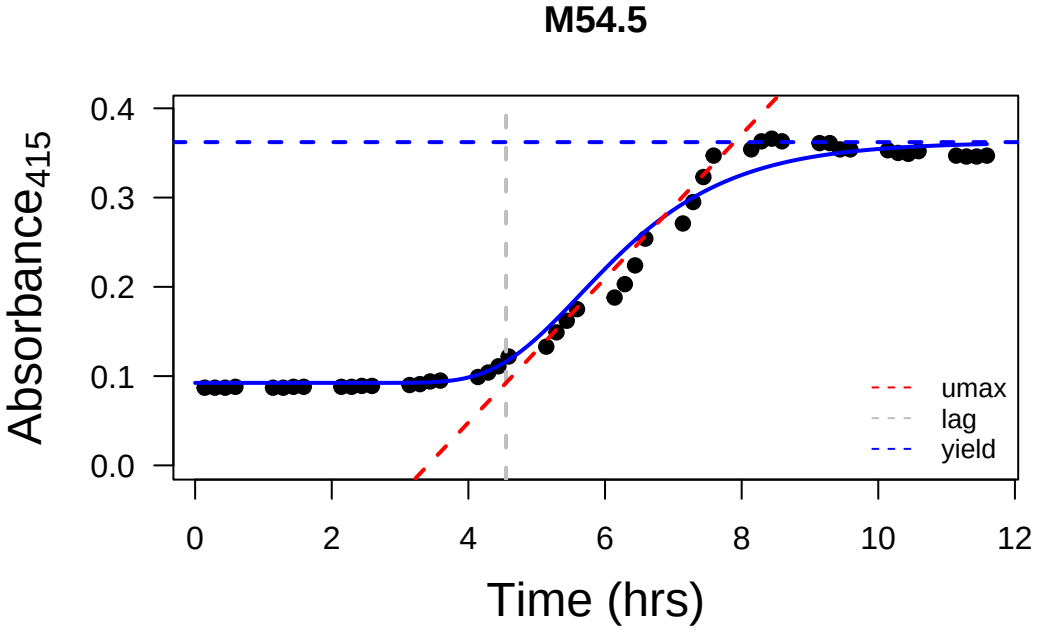

M41.5
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

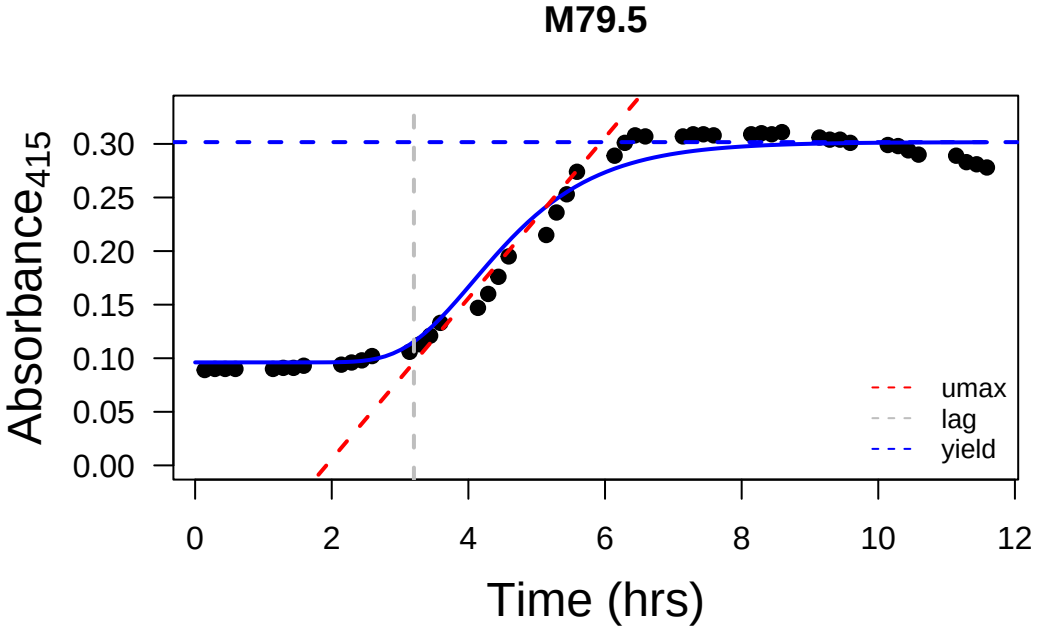

M4.5
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

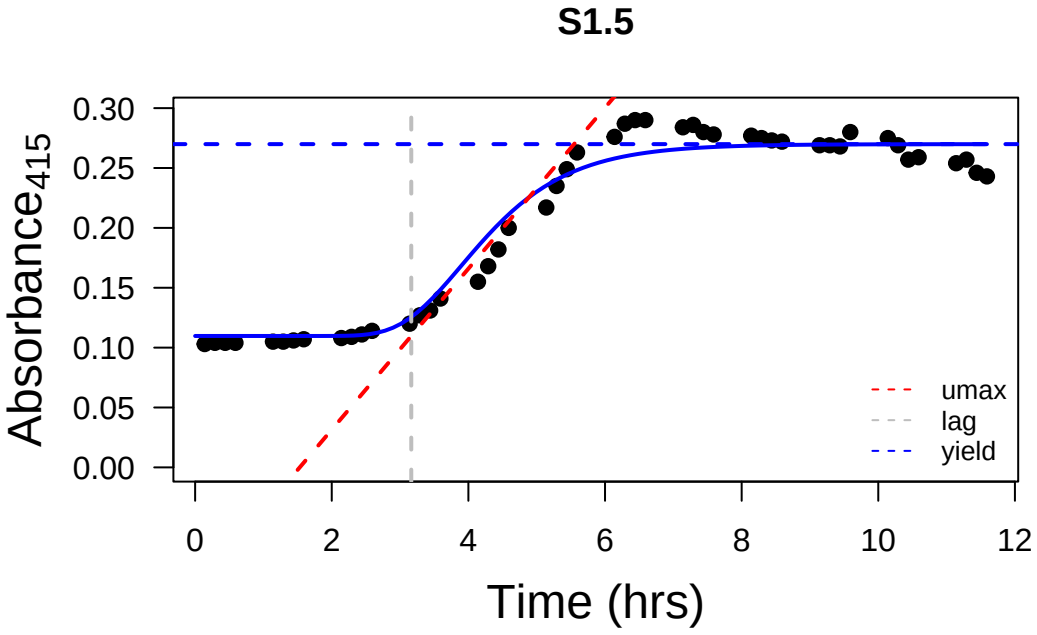

M13.4
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

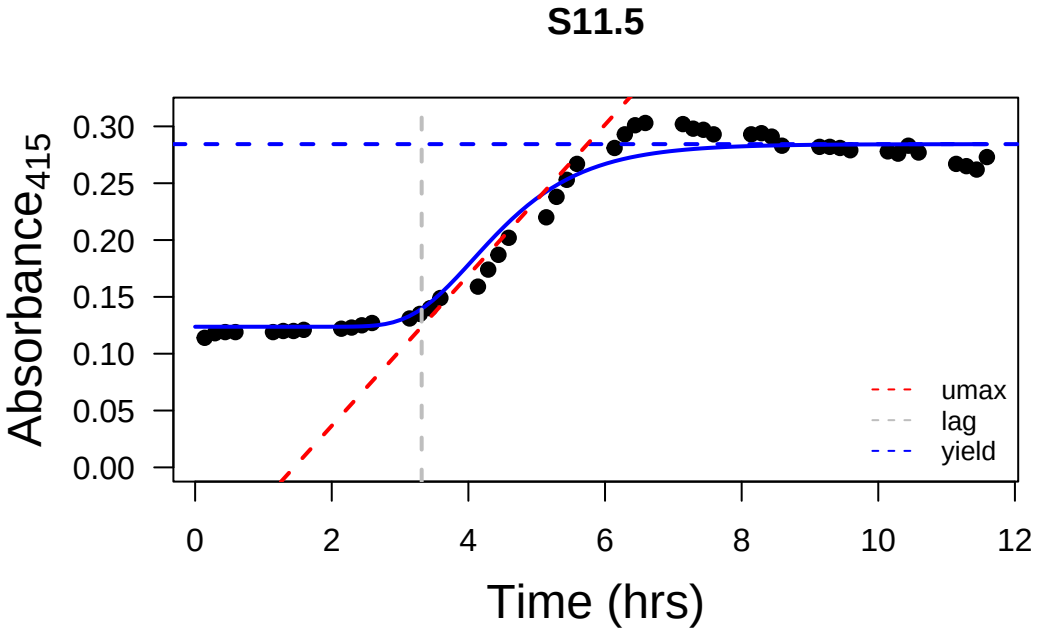

M17.5
Absorbance415
0.5
0.4
0.3
0.2
0.1
0.0
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

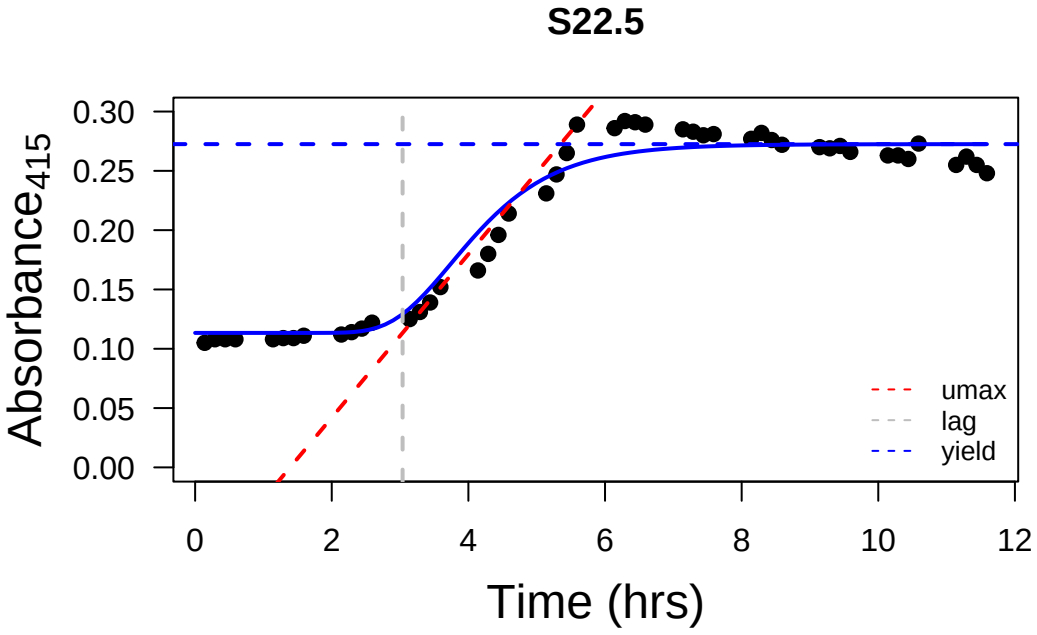

M19.5
Absorbance415
0.0
0.1
0.2
0.3
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

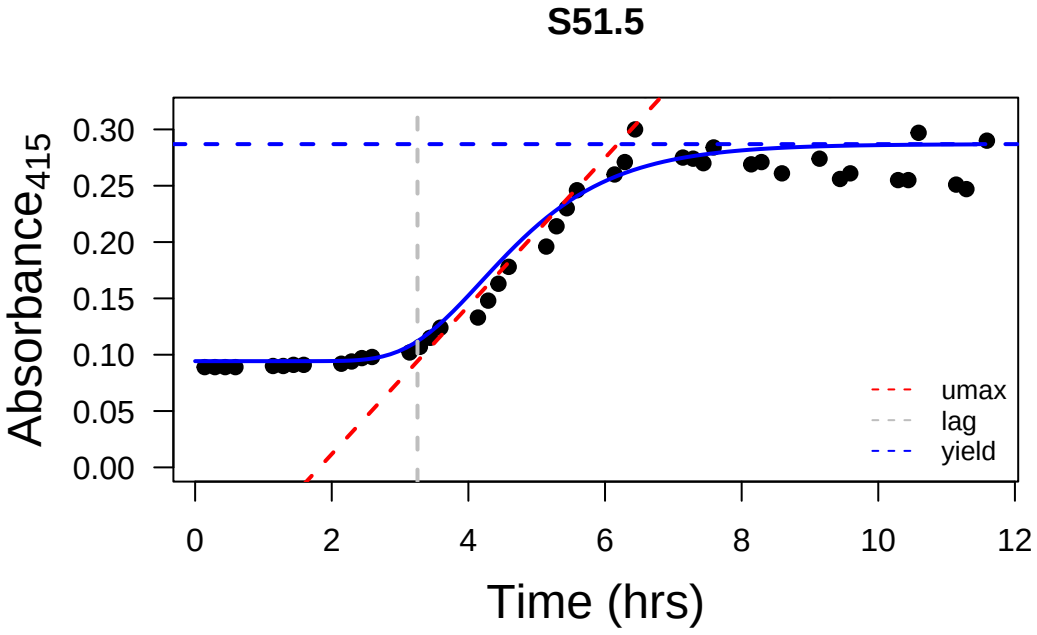

M54.5
Absorbance415
0.0
0.1
0.2
0.3
0.4
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield

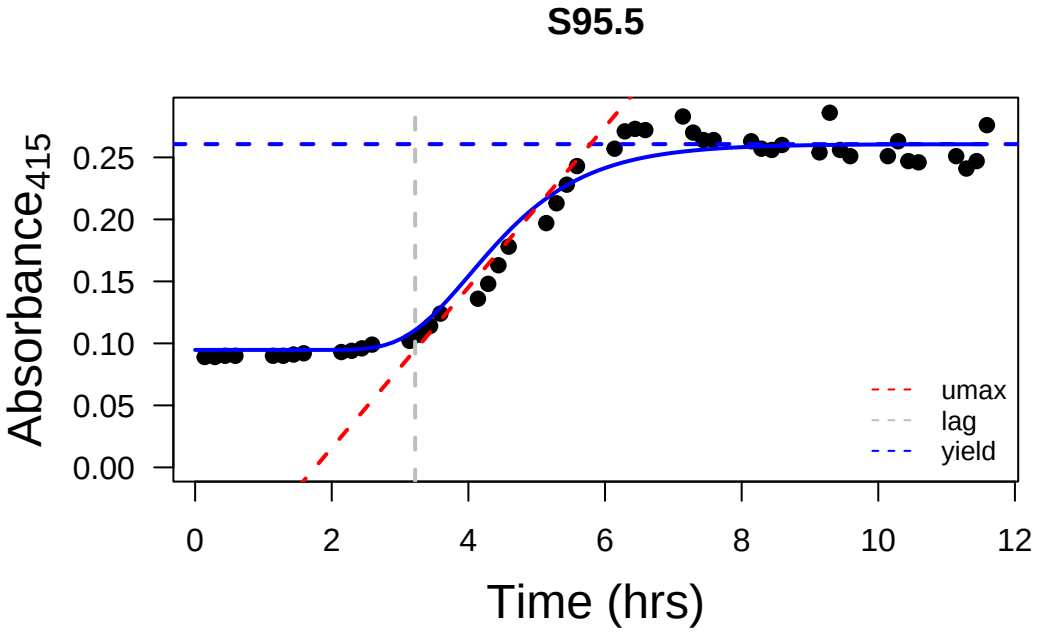

M79.5
Absorbance415
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield


S1.5
Absorbance415
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield


S11.5
Absorbance415
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield


S22.5
Absorbance415
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield


S51.5
Absorbance415
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield


S95.5
Absorbance415
0.00
0.05
0.10
0.15
0.20
0.25
0
2
4
6
8
10
12
Time (hrs)
umax
lag
yield