

**Table S4 - UMAP cluster frequency (%) per LB growth condition**

Cluster	OD = 0.03 (lag_0.5h)	OD = 0.03 (lag_1h)	OD = 0.06	OD_0.2	OD_0.45	OD_0.85	OD_1.2	OD_1.5	OD_1.8	OD_2.1	OD_3.2
1	6.71%	29.94%	45.89%	56.18%	74.52%	2.31%	0.05%	0.00%	0.02%	0.00%	0.00%
2	0.04%	0.02%	0.00%	0.09%	0.03%	0.27%	88.59%	17.43%	0.82%	0.87%	0.75%
3	53.44%	47.55%	12.96%	3.52%	6.33%	1.93%	0.02%	0.02%	0.21%	0.19%	0.04%
4	0.00%	0.00%	0.00%	0.00%	0.07%	0.15%	2.38%	31.72%	19.97%	15.96%	7.10%
5	0.22%	0.13%	0.03%	0.00%	0.00%	0.08%	0.86%	8.23%	17.19%	20.77%	21.23%
6	0.04%	0.02%	0.09%	0.05%	2.80%	92.22%	0.66%	0.44%	0.15%	0.05%	0.04%
7	0.13%	0.04%	0.00%	0.00%	0.17%	0.50%	1.45%	9.83%	12.33%	13.91%	9.46%
8	0.61%	8.05%	30.30%	28.34%	9.33%	0.31%	0.00%	0.02%	0.02%	0.03%	0.00%
9	0.17%	0.11%	0.03%	0.00%	0.00%	0.12%	0.52%	4.76%	9.74%	9.32%	9.94%
10	0.04%	0.16%	0.03%	0.05%	0.17%	0.27%	0.70%	4.78%	8.37%	10.13%	7.47%
11	0.35%	0.40%	0.18%	0.27%	0.31%	0.69%	1.31%	4.49%	7.71%	8.61%	7.08%
12	0.09%	0.09%	0.00%	0.14%	0.35%	0.08%	0.38%	0.46%	1.35%	1.50%	23.30%
13	34.56%	5.03%	1.80%	1.85%	1.73%	0.12%	0.18%	0.53%	0.71%	0.65%	0.42%
14	0.04%	0.04%	0.03%	0.00%	0.03%	0.23%	0.88%	5.10%	6.82%	6.53%	3.78%
15	0.13%	0.04%	0.00%	0.00%	0.03%	0.27%	1.04%	5.80%	6.55%	4.67%	3.82%
16	2.90%	8.09%	8.19%	8.94%	2.73%	0.12%	0.00%	0.00%	0.00%	0.02%	0.00%
17	0.17%	0.04%	0.12%	0.00%	0.07%	0.04%	0.23%	2.04%	3.16%	2.73%	3.76%
18	0.04%	0.02%	0.03%	0.00%	0.07%	0.08%	0.29%	2.77%	2.74%	2.15%	0.39%
19	0.09%	0.02%	0.00%	0.00%	0.00%	0.12%	0.29%	0.73%	1.42%	1.47%	0.62%
20	0.22%	0.18%	0.31%	0.59%	1.24%	0.12%	0.16%	0.85%	0.74%	0.44%	0.81%