

# Growth analysis report

07 november, 2022

## Summary

The dataset contains 70 samples.

0 conditions were identified:

0 different concentrations were identified:

The following parameters were used to fit the data:

- minimum density considered: NA
- minimum time considered for linear and spline fits (t0): 0
- log-transform density values for spline fits: TRUE
- log-transform density values for parametric fits: TRUE
- log-transform time values: FALSE
- perform dose-response analysis: FALSE
- growth threshold:  $1.5 * \text{start\_density}$

Growth fit results

Grouped results

Table 1: Smooth Spline Fit

Sample Conc.	mumax	tD	lagtime	Y_max	dY	t(mumax)
Test1   0	0.662 ± 0.003	1.046 ± 0.005	4.268 ± 0.126	6.81 ± 0.405	6.756 ± 0.403	7.917 ± 0.144
Test1   0.017	0.63 ± 0.002	1.1 ± 0.003	4.547 ± 0.162	3.878 ± 0.124	3.826 ± 0.126	8 ± 0.354
Test1   0.026	0.604 ± 0.009	1.148 ± 0.017	4.471 ± 0.272	3.233 ± 0.234	3.181 ± 0.23	7.833 ± 0.289
Test1   0.039	0.564 ± 0.009	1.23 ± 0.019	4.595 ± 0.108	2.707 ± 0.11	2.651 ± 0.108	8.083 ± 0.144
Test1   0.059	0.529 ± 0.002	1.309 ± 0.004	4.697 ± 0.035	1.99 ± 0.094	1.942 ± 0.095	8.25
Test1   0.088	0.475 ± 0.006	1.46 ± 0.019	4.319 ± 0.173	1.704 ± 0.147	1.653 ± 0.146	8 ± 0.25
Test1   0.13	0.384 ± 0.005	1.806 ± 0.023	4.477 ± 0.19	1.192 ± 0.101	1.138 ± 0.097	8.417 ± 0.382
Test1   0.2	0.268 ± 0.004	2.59 ± 0.036	3.965 ± 0.103	0.79 ± 0.044	0.739 ± 0.04	9.167 ± 0.144
Test1   0.3	0.148 ± 0.009	4.7 ± 0.296	3.163 ± 0.437	0.428 ± 0.025	0.377 ± 0.024	9.917 ± 0.764
Test1   0.44	0.073 ± 0.001	9.555 ± 0.181	2.195 ± 0.384	0.205 ± 0.023	0.15 ± 0.018	9.5 ± 1.5
Test1   0.67	0.04 ± 0.005	17.581 ± 2.557	1.034 ± 1.521	0.098 ± 0.006	0.045 ± 0.003	4.167 ± 4.785
Test1   1						
Test2   0	0.48 ± 0.007	1.443 ± 0.022	4.002 ± 0.101	3.725 ± 0.362	3.675 ± 0.359	8.583 ± 0.144
Test2   0.017	0.436 ± 0.011	1.589 ± 0.04	3.999 ± 0.036	2.65 ± 0.083	2.593 ± 0.083	8.25
Test2   0.026	0.42 ± 0.002	1.651 ± 0.009	4.01 ± 0.286	2.153 ± 0.024	2.1 ± 0.02	8.5 ± 0.433
Test2   0.039	0.392 ± 0.015	1.771 ± 0.067	3.989 ± 0.132	1.761 ± 0.283	1.71 ± 0.28	8.417 ± 0.289
Test2   0.059	0.351 ± 0.008	1.977 ± 0.044	3.897 ± 0.19	1.45 ± 0.131	1.399 ± 0.128	8.5 ± 0.433
Test2   0.088	0.29 ± 0.005	2.392 ± 0.045	3.866 ± 0.229	1.204 ± 0.068	1.15 ± 0.068	9.25 ± 0.25
Test2   0.13	0.213 ± 0.005	3.257 ± 0.078	3.413 ± 0.128	0.871 ± 0.061	0.817 ± 0.062	9.5 ± 0.25
Test2   0.2	0.122 ± 0.002	5.66 ± 0.093	2.686 ± 0.268	0.466 ± 0.019	0.414 ± 0.021	10.583 ± 1.181
Test2   0.3	0.047 ± 0.002	14.894 ± 0.817	2.377 ± 0.449	0.133 ± 0.009	0.078 ± 0.004	11.5 ± 2.704
Test2   0.44						
Test2   0.67						
Test2   1						

# Individual samples

Table 2: Smooth Spline Fit

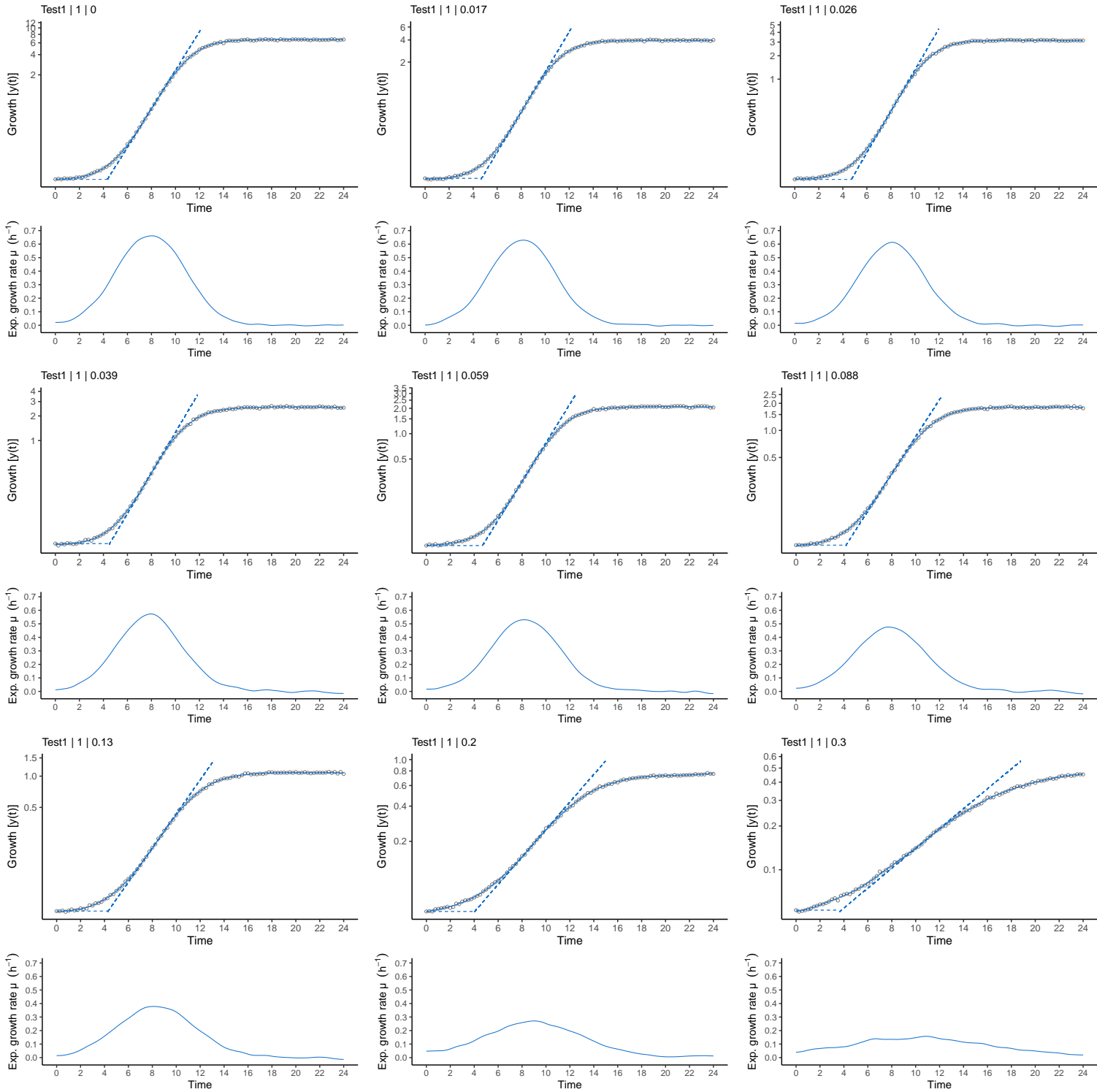
Sample Replicate Conc.	$\mu_{max}$	$t_D$	$\lambda$	$y_{max}$	$\Delta Y$	$t_{max}$	smooth. fac
Test1 1 0	0.661	1.05	4.33	6.689	6.633	8.00	0.55
Test1 1 0.017	0.629	1.1	4.66	3.966	3.915	8.25	0.55
Test1 1 0.026	0.613	1.13	4.72	3.173	3.122	8.00	0.55
Test1 1 0.039	0.573	1.21	4.48	2.581	2.528	8.00	0.55
Test1 1 0.059	0.53	1.31	4.71	2.098	2.051	8.25	0.55
Test1 1 0.088	0.476	1.46	4.16	1.821	1.769	7.75	0.55
Test1 1 0.13	0.378	1.83	4.28	1.083	1.033	8.00	0.55
Test1 1 0.2	0.271	2.56	4.02	0.759	0.709	9.00	0.55
Test1 1 0.3	0.157	4.41	3.63	0.455	0.403	10.75	0.55
Test1 1 0.44	0.074	9.43	2.06	0.212	0.154	9.50	0.55
Test1 1 0.67	0.034	20.51	0.32	0.103	0.048	2.75	0.55
Test1 1 1					0.000		0.55
Test1 2 0	0.66	1.05	4.35	6.479	6.429	8.00	0.55
Test1 2 0.017	0.631	1.1	4.43	3.791	3.737	7.75	0.55
Test1 2 0.026	0.604	1.15	4.18	3.492	3.435	7.50	0.55
Test1 2 0.039	0.555	1.25	4.69	2.760	2.702	8.00	0.55
Test1 2 0.059	0.531	1.31	4.73	1.928	1.880	8.25	0.55
Test1 2 0.088	0.468	1.48	4.50	1.540	1.488	8.25	0.55
Test1 2 0.13	0.387	1.79	4.65	1.211	1.154	8.75	0.55
Test1 2 0.2	0.264	2.63	3.85	0.840	0.784	9.25	0.55
Test1 2 0.3	0.148	4.69	3.10	0.406	0.357	9.25	0.55
Test1 2 0.44	0.073	9.47	2.63	0.180	0.130	11.00	0.55
Test1 2 0.67	0.042	16.46	2.78	0.098	0.045	9.50	0.55
Test1 2 1					0.000		0.55
Test1 3 0	0.666	1.04	4.12	7.262	7.206	7.75	0.55
Test1 3 0.026	0.595	1.16	4.51	3.035	2.986	8.00	0.55
Test1 3 0.039	0.563	1.23	4.62	2.781	2.724	8.25	0.55
Test1 3 0.059	0.527	1.31	4.66	1.942	1.895	8.25	0.55
Test1 3 0.088	0.48	1.44	4.30	1.751	1.701	8.00	0.55
Test1 3 0.13	0.386	1.79	4.50	1.282	1.225	8.50	0.55
Test1 3 0.2	0.269	2.58	4.03	0.771	0.722	9.25	0.55
Test1 3 0.3	0.139	5	2.76	0.423	0.369	9.75	0.55
Test1 3 0.44	0.071	9.76	1.90	0.224	0.166	8.00	0.55
Test1 3 0.67	0.044	15.78	0.00	0.092	0.042	0.25	0.55
Test1 3 1					0.000		0.55
Test2 1 0	0.472	1.47	3.94	3.377	3.328	8.50	0.55
Test2 1 0.017	0.429	1.62	3.97	2.591	2.534	8.25	0.55
Test2 1 0.026	0.418	1.66	4.34	2.142	2.092	8.75	0.55
Test2 1 0.039	0.383	1.81	3.87	1.666	1.614	8.25	0.55
Test2 1 0.059	0.344	2.02	3.76	1.301	1.253	8.75	0.55
Test2 1 0.088	0.295	2.35	4.07	1.282	1.229	9.25	0.55
Test2 1 0.13	0.218	3.18	3.55	0.939	0.886	9.25	0.55
Test2 1 0.2	0.12	5.76	2.74	0.445	0.390	11.50	0.55
Test2 1 0.3	0.048	14.5	2.58	0.123	0.074	12.25	0.55
Test2 1 0.44					0.000		0.55
Test2 1 0.67					0.000		0.55
Test2 1 1					0.000		0.55
Test2 2 0	0.486	1.43	4.12	4.099	4.046	8.75	0.55
Test2 2 0.017	0.444	1.56	4.02	2.708	2.652	8.25	0.55
Test2 2 0.026	0.419	1.65	3.82	2.180	2.123	8.00	0.55
Test2 2 0.039	0.409	1.69	4.13	2.080	2.026	8.75	0.55
Test2 2 0.059	0.349	1.99	4.11	1.506	1.453	8.75	0.55
Test2 2 0.088	0.291	2.38	3.91	1.160	1.108	9.50	0.55
Test2 2 0.13	0.208	3.33	3.30	0.852	0.796	9.75	0.55
Test2 2 0.2	0.124	5.58	2.92	0.474	0.422	11.00	0.55
Test2 2 0.3	0.044	15.83	2.69	0.138	0.079	13.75	0.55
Test2 2 0.44					0.000		0.55
Test2 2 0.67					0.000		0.55
Test2 2 1					0.000		0.55
Test2 3 0	0.483	1.44	3.95	3.697	3.649	8.50	0.55
Test2 3 0.026	0.422	1.64	3.87	2.135	2.086	8.75	0.55
Test2 3 0.039	0.383	1.81	3.96	1.539	1.491	8.25	0.55
Test2 3 0.059	0.359	1.93	3.82	1.545	1.492	8.00	0.55
Test2 3 0.088	0.284	2.44	3.62	1.168	1.113	9.00	0.55
Test2 3 0.13	0.213	3.26	3.39	0.820	0.768	9.50	0.55
Test2 3 0.2	0.123	5.63	2.39	0.481	0.428	9.25	0.55
Test2 3 0.3	0.048	14.35	1.86	0.137	0.081	8.50	0.55

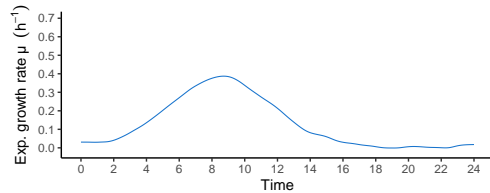
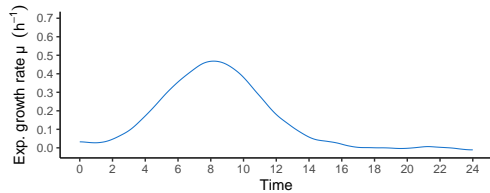
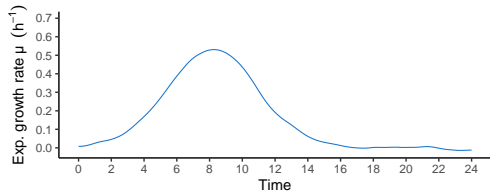
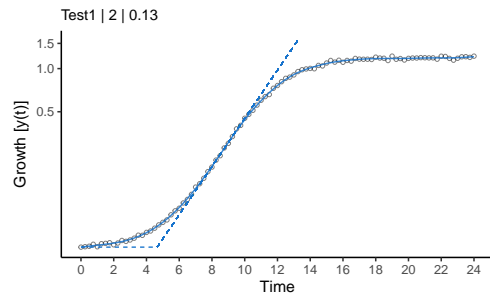
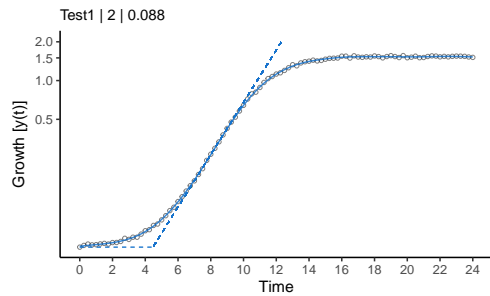
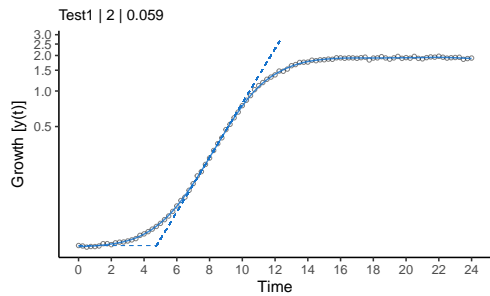
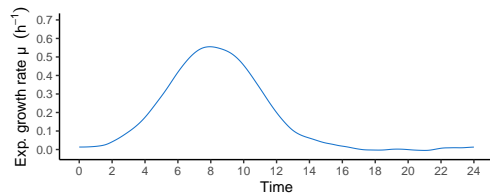
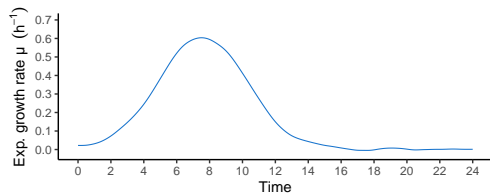
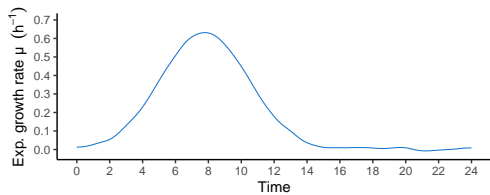
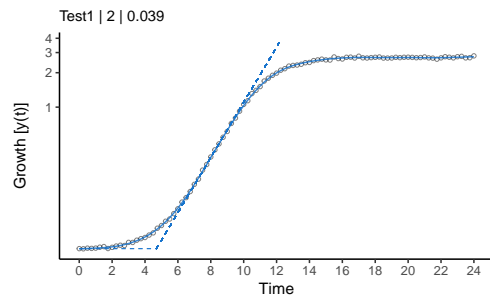
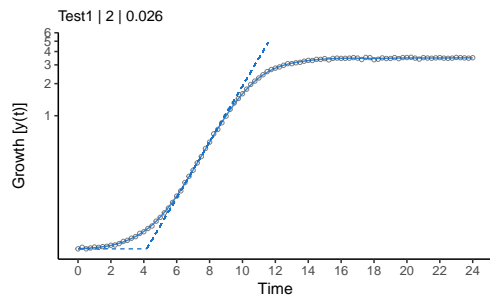
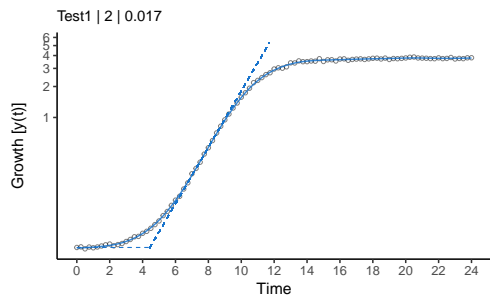
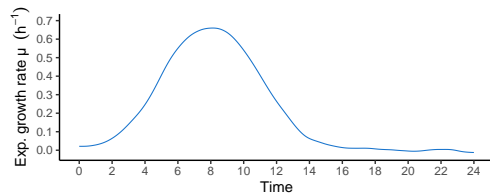
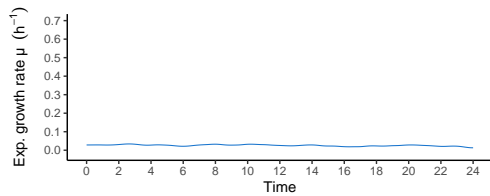
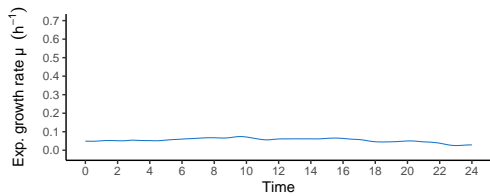
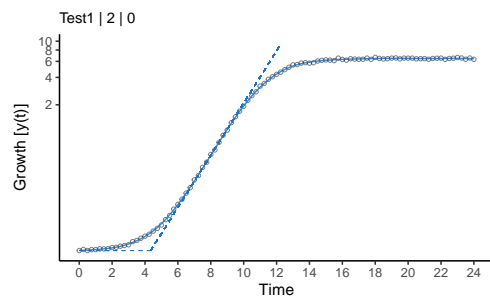
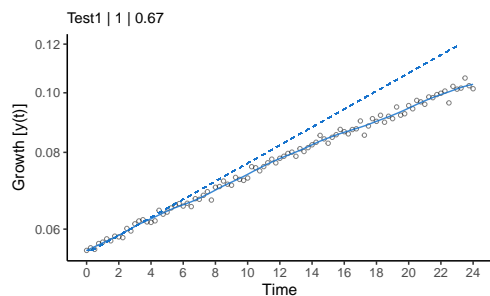
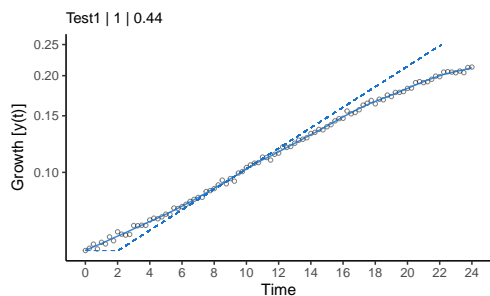
Table 2: Smooth Spline Fit (*continued*)

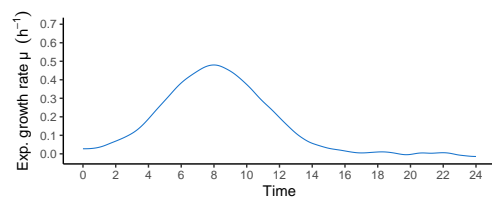
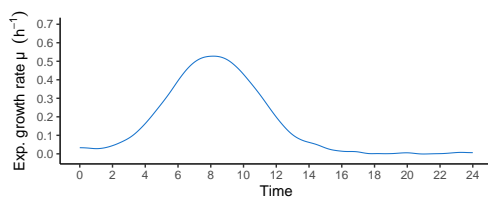
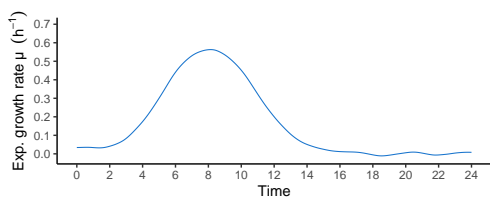
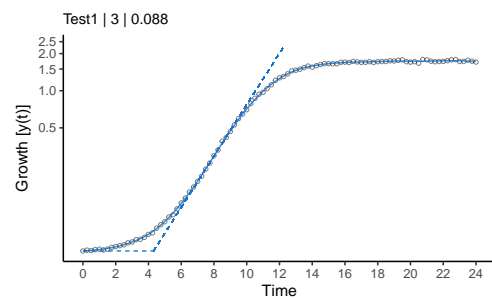
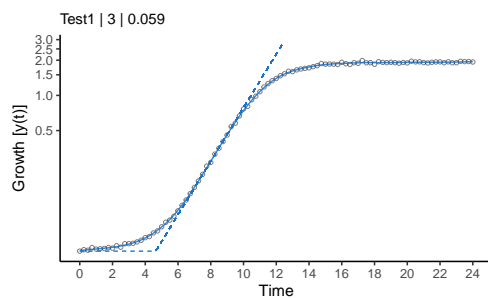
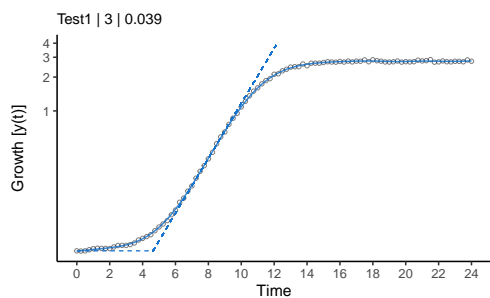
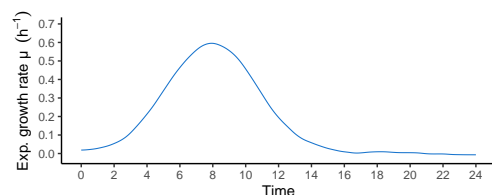
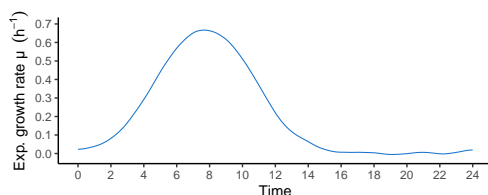
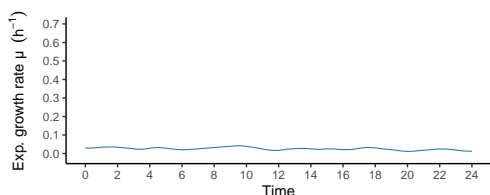
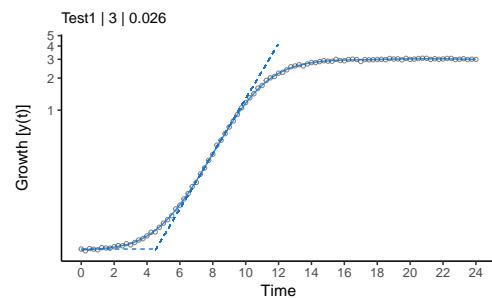
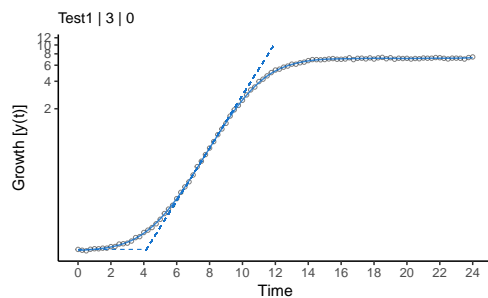
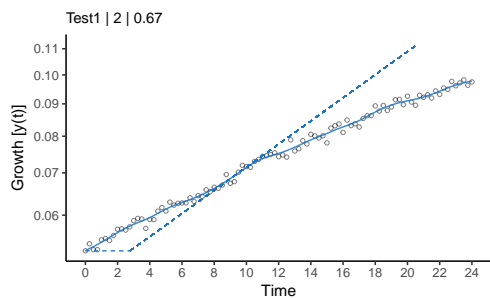
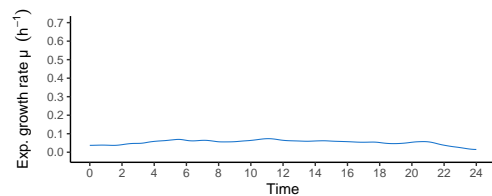
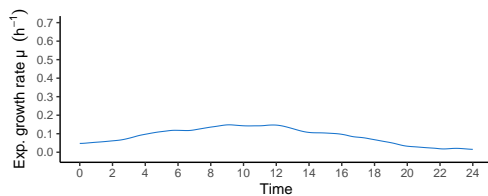
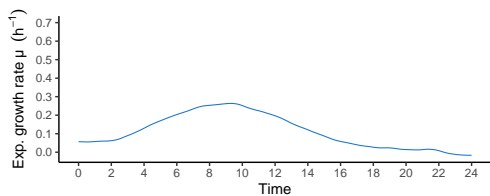
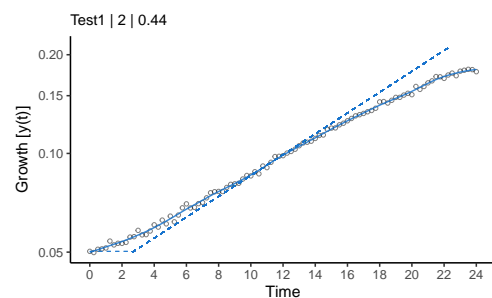
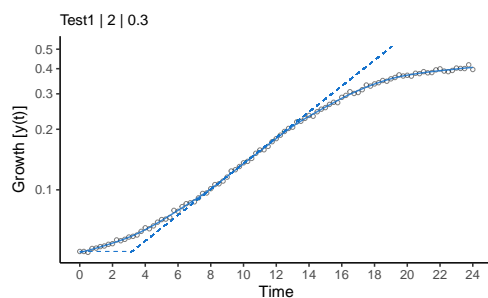
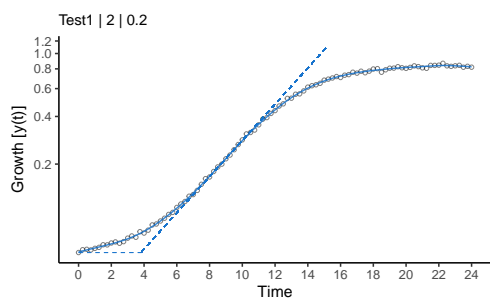
Sample Replicate Conc.	$\mu_{max}$	$t_D$	$\lambda$	$y_{max}$	$\Delta Y$	$t_{max}$	smooth. fac
Test2 3 0.44					0.000		0.55
Test2 3 0.67					0.000		0.55
Test2 3 1					0.000		0.55



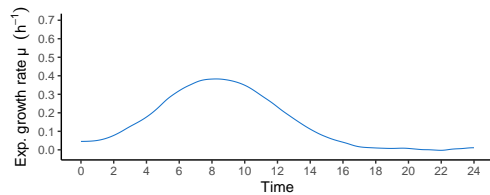
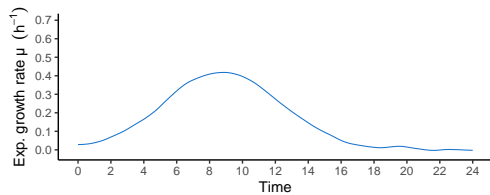
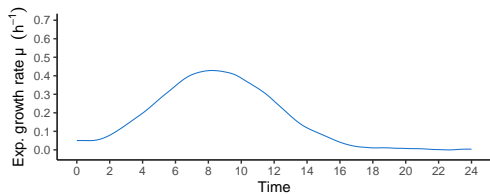
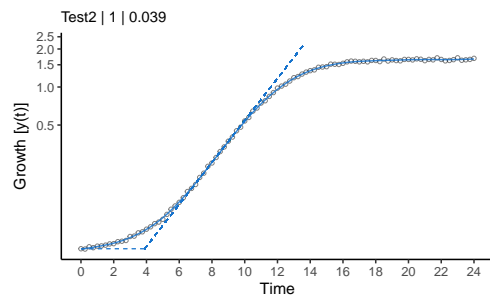
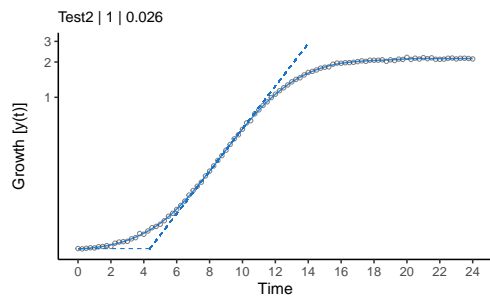
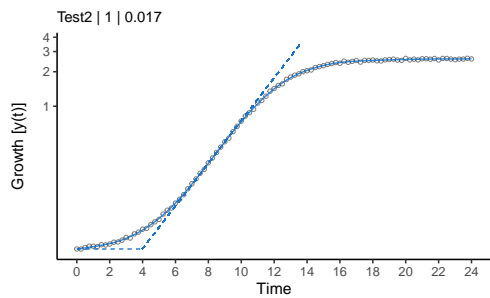
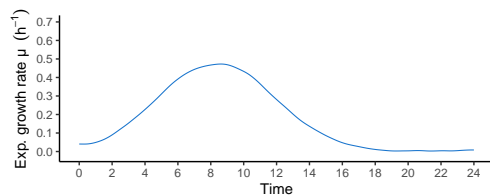
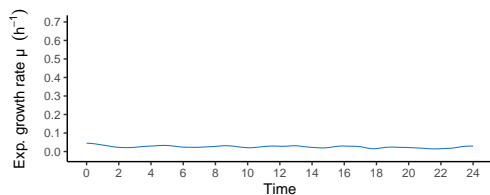
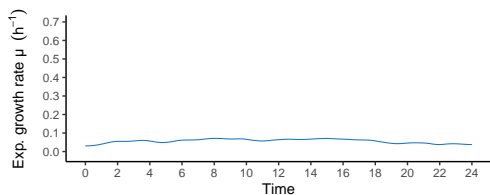
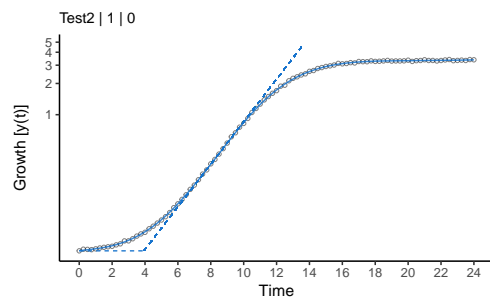
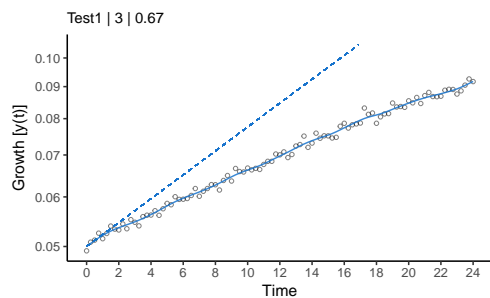
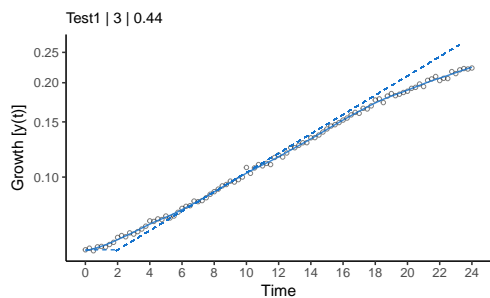
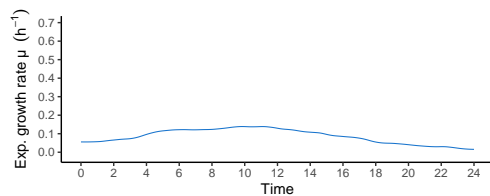
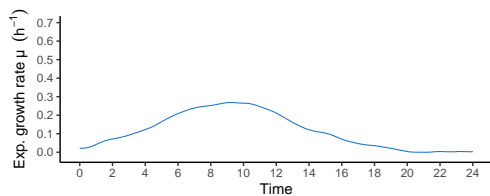
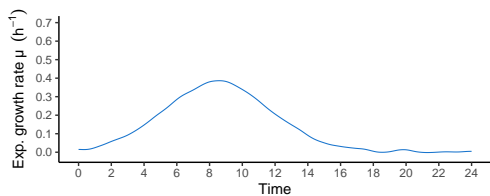
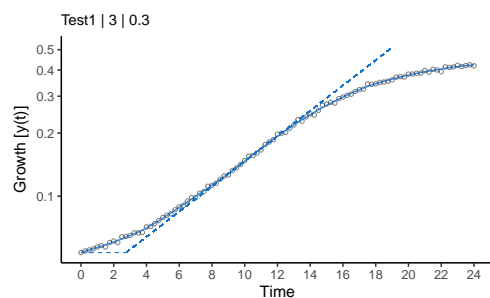
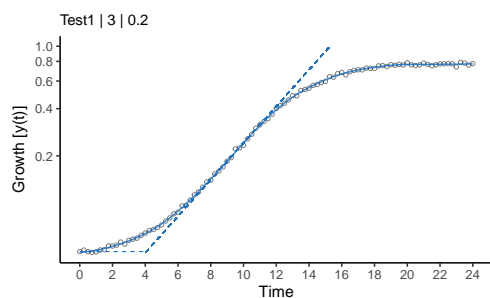
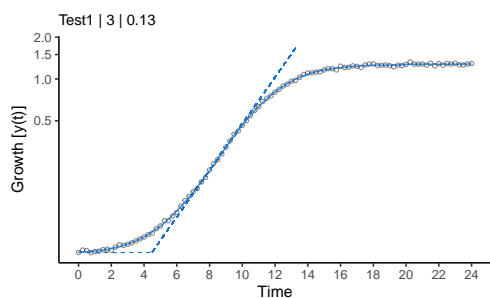
Nonparametric Fits

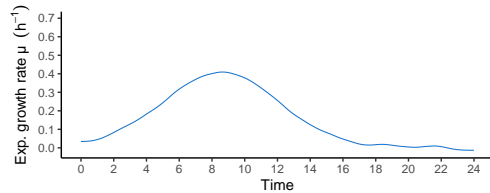
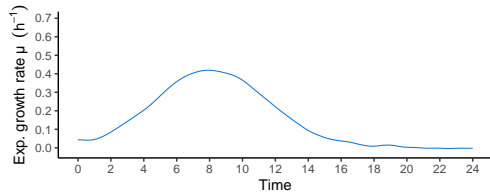
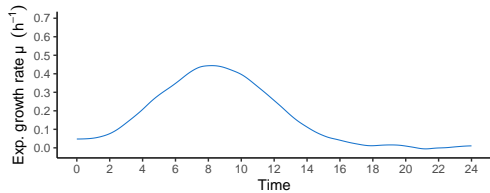
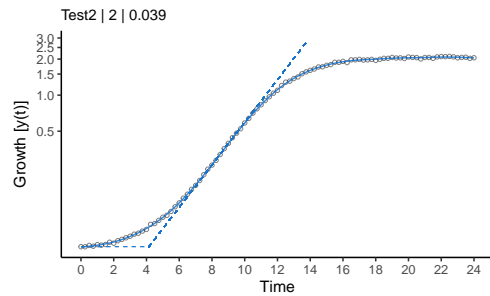
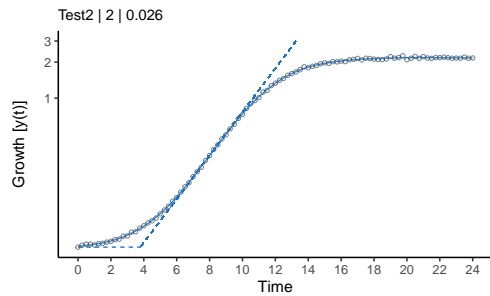
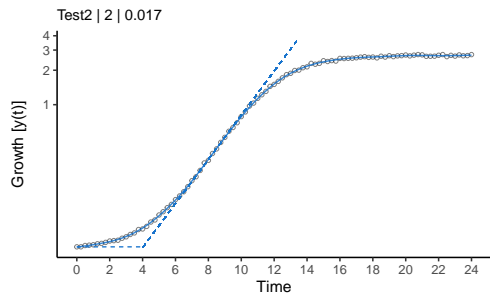
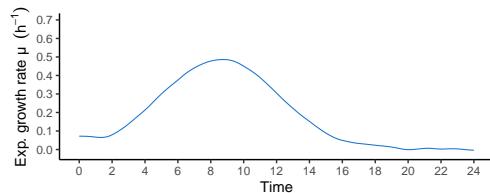
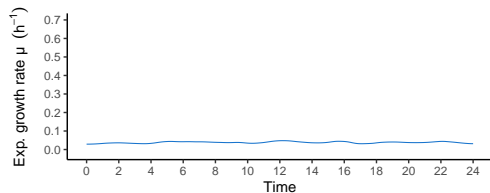
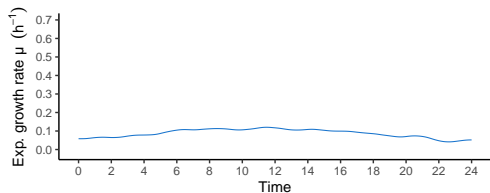
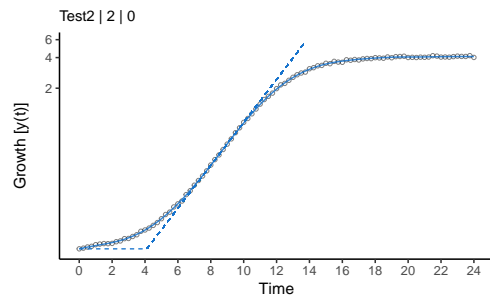
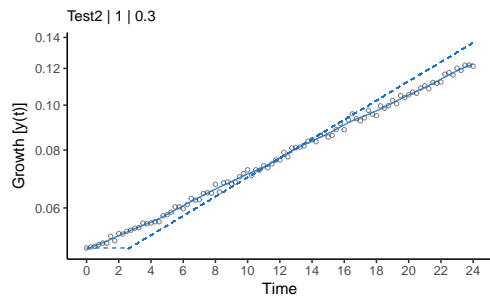
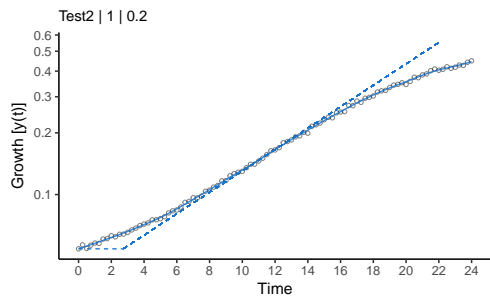
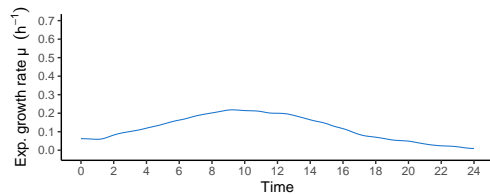
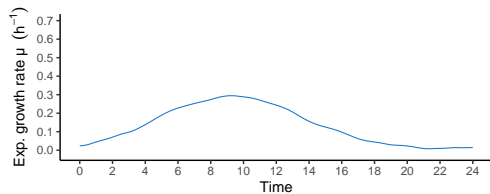
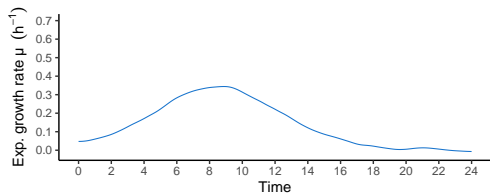
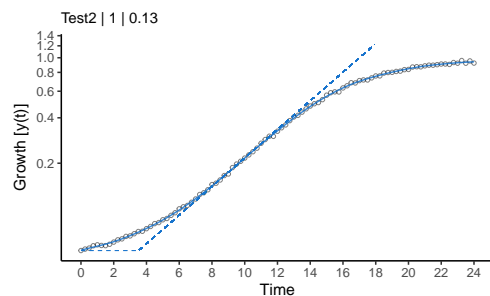
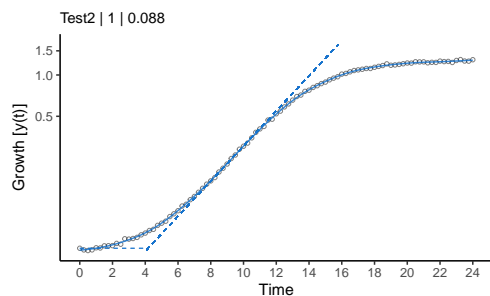
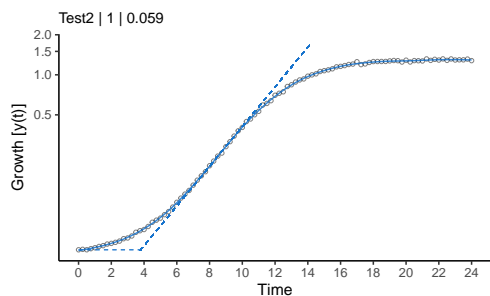


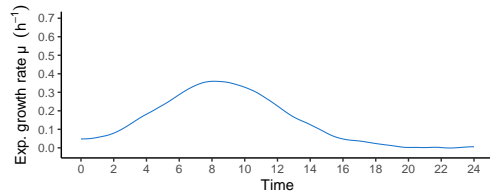
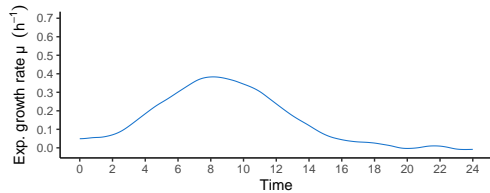
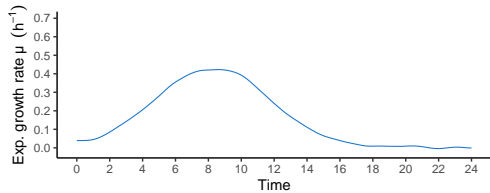
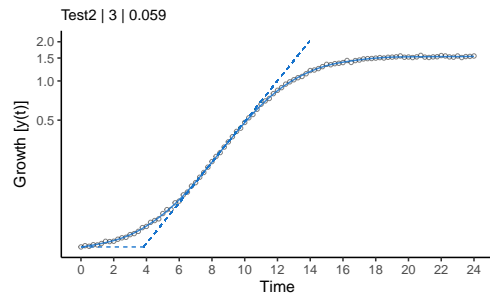
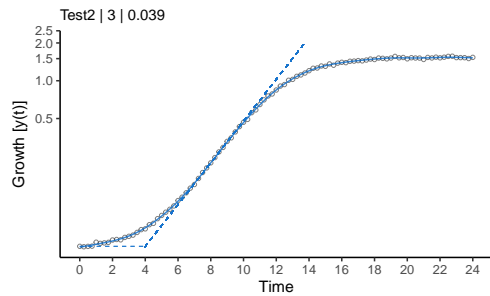
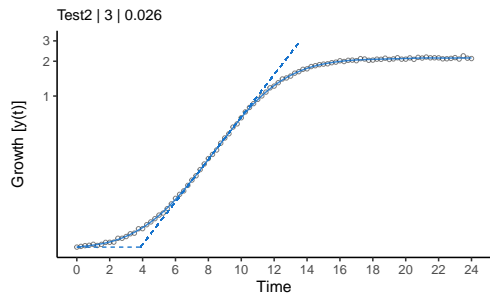
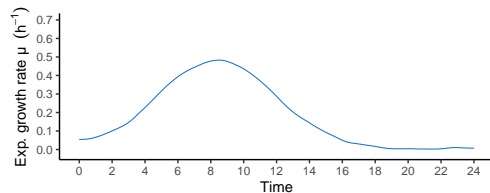
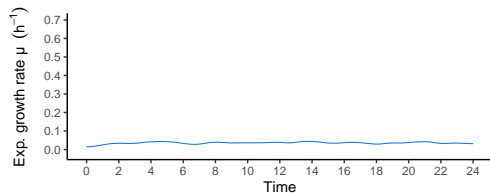
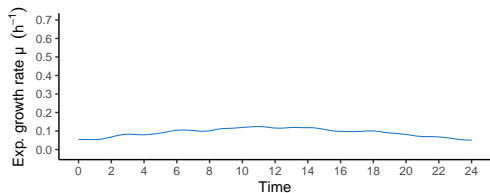
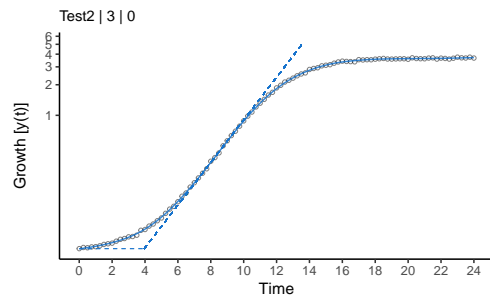
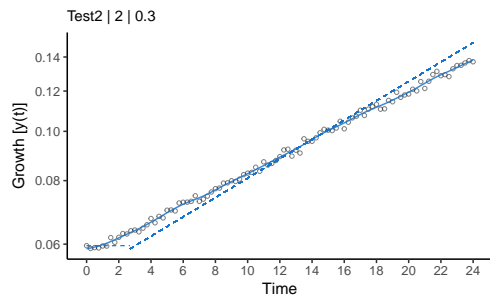
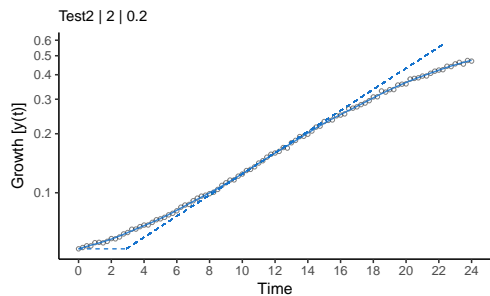
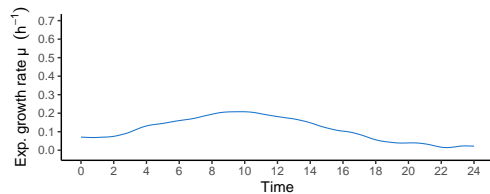
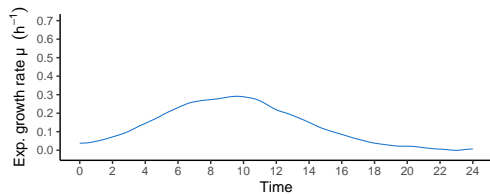
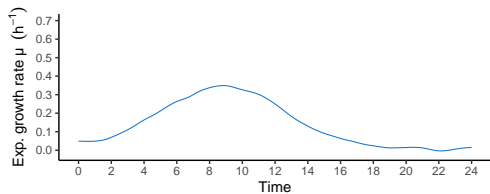
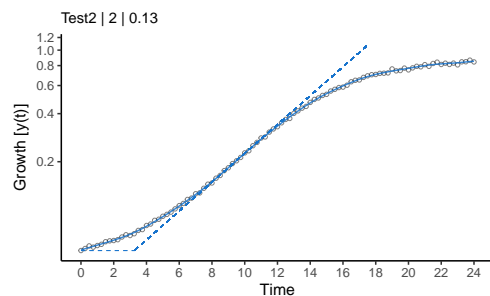
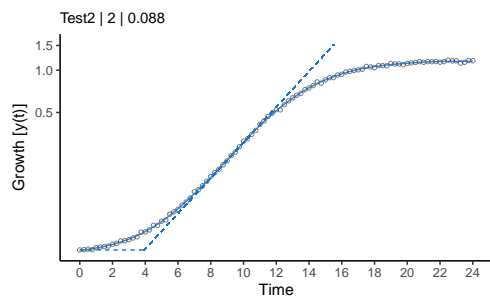
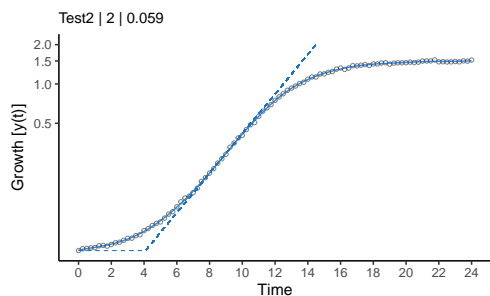


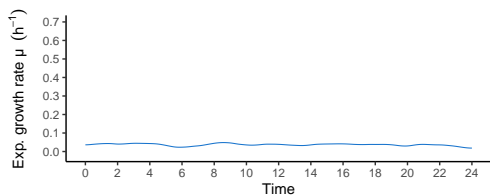
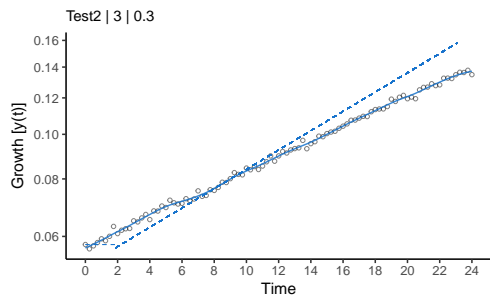
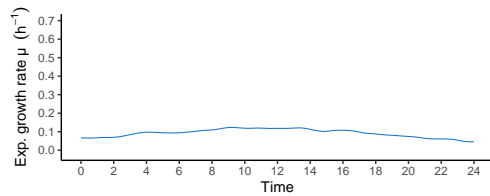
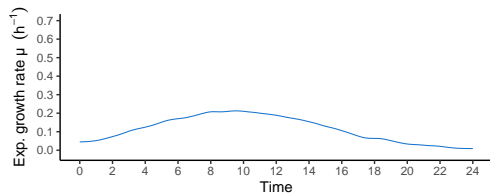
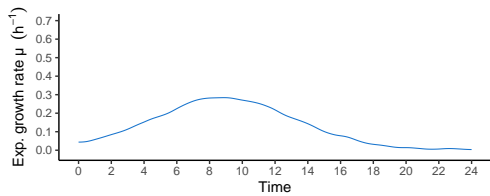
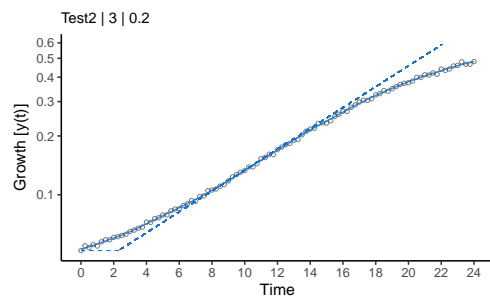
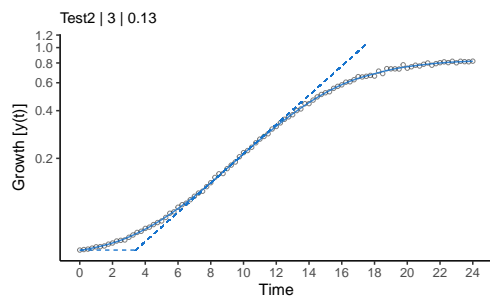
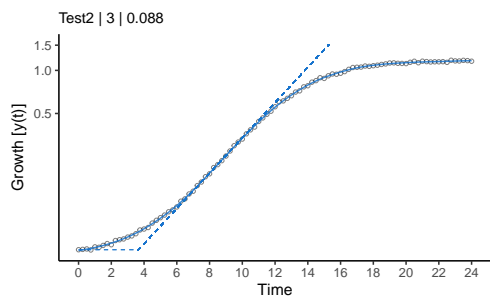












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