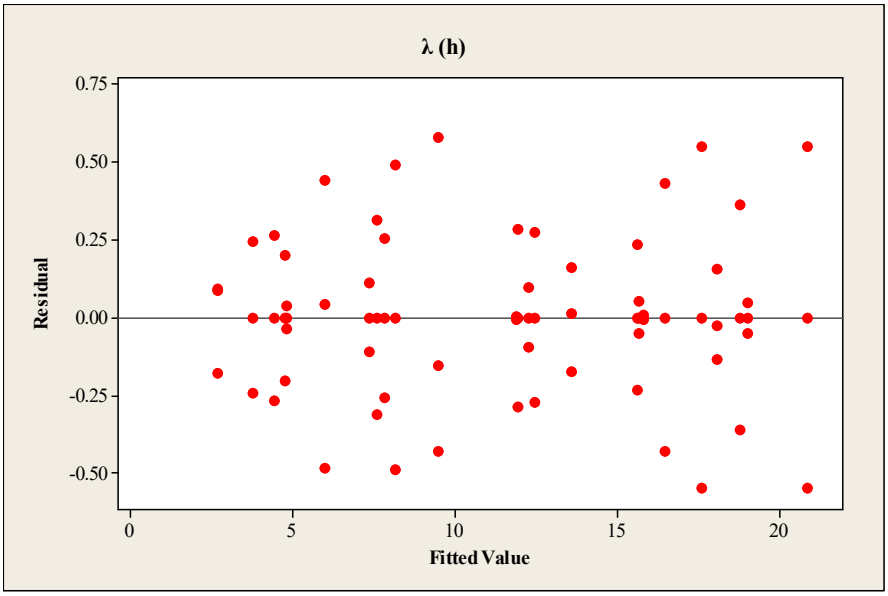


Figure S1. Residuals versus Fits Plot with lag phase duration (λ) of *Saccharomyces cerevisiae* NCYC187 as the response, and commercial yeast extract concentration and initial cell concentration as independent variables.

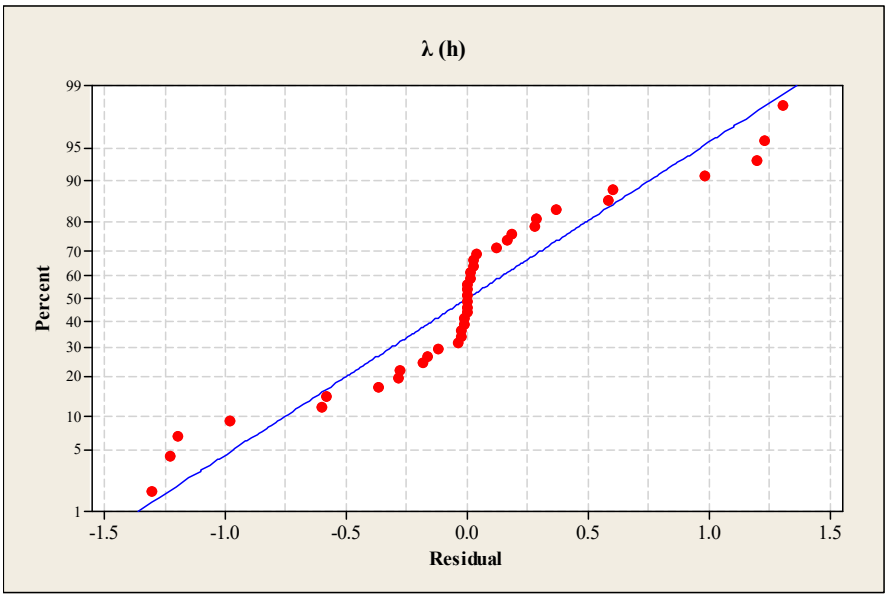


Figure S2. Normal Probability Plot of Residuals with lag phase duration (λ) of *Saccharomyces cerevisiae* NCYC187 as the response, and wine lees yeast extract concentration and initial cell concentration as independent variables.

Table S1. Coefficients of determination (R^2) and standard errors (SE) for data fitting of the primary model of Baranyi and Roberts (1994) on growth data of *Lactiplantibacillus plantarum* 2035 on an MRS broth formulated with different yeast extracts and different initial cell concentrations.

y_0 (log(CFU) mL^{-1})	R^2	SE	R^2	SE	R^2	SE
	C		WL		C+WL	
6	0.993 ± 0.000	0.026 ± 0.002	0.940 ± 0.002	0.059 ± 0.004	0.990 ± 0.002	0.031 ± 0.001
5	0.987 ± 0.003	0.037 ± 0.006	0.992 ± 0.003	0.019 ± 0.002	0.991 ± 0.003	0.027 ± 0.002
4	0.990 ± 0.003	0.031 ± 0.010	0.983 ± 0.005	0.034 ± 0.002	0.991 ± 0.001	0.026 ± 0.001
3	0.995 ± 0.001	0.016 ± 0.001	0.983 ± 0.002	0.034 ± 0.008	0.995 ± 0.001	0.011 ± 0.001
2	0.996 ± 0.000	0.014 ± 0.002	0.986 ± 0.001	0.042 ± 0.012	0.919 ± 0.040	0.013 ± 0.001

y_0: initial cell concentration, C: MRS with 5 g L^{-1} commercial yeast extract; WL: MRS with 5 g L^{-1} wine lees yeast extract; C+WL: MRS with 2.5 g L^{-1} commercial yeast extract and 2.5 g L^{-1} wine lees yeast extract.

Table S2. Coefficients of determination (R^2) and standard errors (SE) for data fitting of the primary model of Baranyi and Roberts (1994) on growth data of *Saccharomyces cerevisiae* NCYC187 on culture media formulated with different yeast extracts and different initial cell concentrations.

y_0 (log(CFU) mL^{-1})	R^2	SE	R^2	SE	R^2	SE	R^2	SE	R^2	SE
	C0.5		C1		C2		C5		C10	
6	0.997 ± 0.000	0.013 ± 0.000	0.999 ± 0.000	0.012 ± 0.000	0.999 ± 0.000	0.013 ± 0.001	0.990 ± 0.011	0.035 ± 0.021	0.998 ± 0.000	0.018 ± 0.001
5	0.996 ± 0.003	0.020 ± 0.007	0.999 ± 0.000	0.011 ± 0.004	0.999 ± 0.000	0.012 ± 0.001	0.998 ± 0.000	0.021 ± 0.001	0.980 ± 0.027	0.059 ± 0.057
4	0.998 ± 0.000	0.027 ± 0.003	0.999 ± 0.000	0.015 ± 0.002	1.000 ± 0.000	0.010 ± 0.001	0.999 ± 0.000	0.015 ± 0.001	0.984 ± 0.021	0.060 ± 0.063
3	0.998 ± 0.000	0.028 ± 0.001	1.000 ± 0.000	0.013 ± 0.001	1.000 ± 0.000	0.011 ± 0.000	1.000 ± 0.000	0.013 ± 0.001	0.999 ± 0.000	0.015 ± 0.002
2	0.998 ± 0.000	0.027 ± 0.002	0.999 ± 0.000	0.015 ± 0.001	1.000 ± 0.000	0.011 ± 0.000	0.999 ± 0.000	0.016 ± 0.000	1.000 ± 0.000	0.016 ± 0.000
	C0.5+WL5		WL1		WL2		WL5		WL10	
6	0.999 ± 0.000	0.010 ± 0.002	0.980 ± 0.000	0.031 ± 0.002	0.993 ± 0.000	0.024 ± 0.001	0.999 ± 0.000	0.008 ± 0.000	0.998 ± 0.001	0.014 ± 0.002
5	0.998 ± 0.000	0.016 ± 0.001	0.985 ± 0.001	0.026 ± 0.001	0.996 ± 0.001	0.017 ± 0.001	0.999 ± 0.000	0.010 ± 0.000	0.966 ± 0.044	0.065 ± 0.055
4	0.997 ± 0.000	0.020 ± 0.000	0.995 ± 0.002	0.013 ± 0.008	0.998 ± 0.000	0.015 ± 0.000	0.999 ± 0.001	0.011 ± 0.005	0.966 ± 0.034	0.084 ± 0.043
3	0.997 ± 0.000	0.019 ± 0.000	0.997 ± 0.001	0.009 ± 0.006	0.997 ± 0.000	0.018 ± 0.002	1.000 ± 0.000	0.006 ± 0.002	0.996 ± 0.005	0.027 ± 0.027
2	0.998 ± 0.000	0.013 ± 0.001	0.993 ± 0.004	0.013 ± 0.003	0.998 ± 0.000	0.022 ± 0.002	1.000 ± 0.000	0.008 ± 0.002	0.985 ± 0.016	0.061 ± 0.037