

	Cell density [ln(CFU ml <sup>-1</sup> )]	Colony volume [ln(μm <sup>3</sup> )]
pH 5.25, a <sub>w</sub> 0.980	$n_0$	$6.997 \times 10^0 (\pm 2.713 \times 10^0)$
	$\mu_{\max,N}$	$3.648 \times 10^{-1} (\pm 1.207 \times 10^{-1})$
	$n_{\text{stat}}$	$2.016 \times 10^1 (\pm 2.202 \times 10^0)$
	RMSE	$5.067 \times 10^0$
pH 4.50, a <sub>w</sub> 0.975	$n_0$	$5.174 \times 10^0 (\pm 2.296 \times 10^0)$
	$\mu_{\max,N}$	$1.869 \times 10^{-1} (\pm 4.893 \times 10^{-2})$
	$n_{\text{stat}}$	$1.911 \times 10^1 (\pm 1.304 \times 10^0)$
	RMSE	$3.274 \times 10^0$
pH 5.25 – a <sub>w</sub> 0.980	$v_0$	$1.125 \times 10^0 (\pm 1.257 \times 10^{-1})$
	$\mu_{\max,V_{\text{exp}}}$	$3.579 \times 10^{-1} (\pm 4.216 \times 10^{-2})$
	$c$	$2.016 \times 10^1$
	$\mu_{\max,V_{\text{stat}}}$	$2.336 \times 10^{-3} (\pm 2.969 \times 10^{-3})$
	RMSE	$4.074 \times 10^{-1}$
pH 4.50 – a <sub>w</sub> 0.975	$v_0$	$1.586 \times 10^0 (\pm 4.159 \times 10^{-1})$
	$\mu_{\max,V_{\text{exp}}}$	$1.524 \times 10^{-1} (\pm 6.643 \times 10^{-3})$
	$c$	$1.130$
	$\mu_{\max,V_{\text{stat}}}$	$2.202 \times 10^{-2} (\pm 9.713 \times 10^{-3})$
	RMSE	$1.650 \times 10^{-1}$

**Table 1** Numerical values ( $\pm$ SE) of the parameter fits of (log transformed) cell density and colony volume at pH 5.25 – a<sub>w</sub> 0.980 and at pH 4.50 – a<sub>w</sub> 0.975