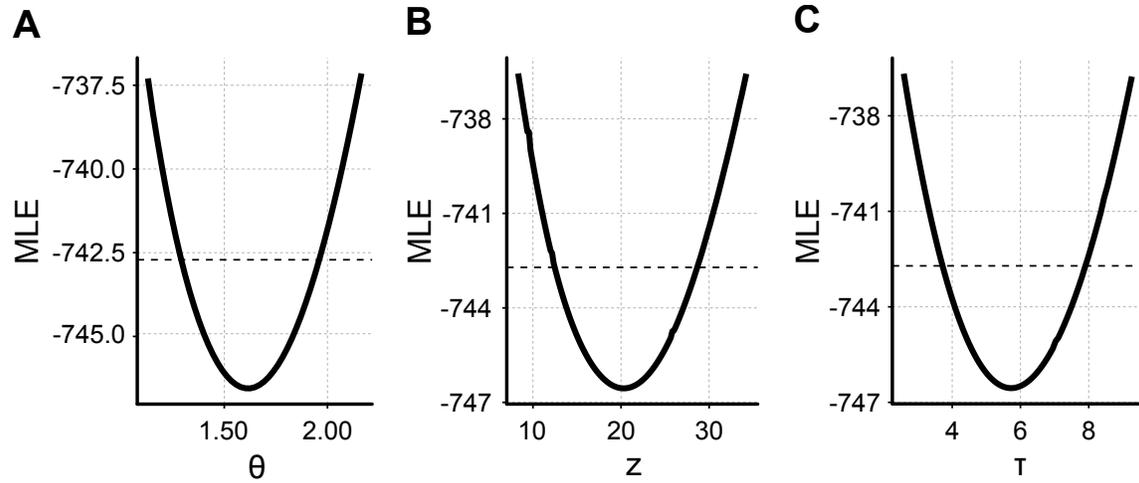


Figure S1: Profile likelihood analysis for parameters estimates that characterize the adjustment term considering single focus growth.



All profiles indicate the identifiability of the parameters based on the simulated data. **(A)** Profile likelihood for the parameter $\theta := \phi\psi$, where ψ defines a measure of non-circular focus shapes and ϕ the number of initially seeded foci (see also *Supplementary Material Text S1*). **(B)** Profile likelihood for the interval length, z , for which the smooth connection term, f_2 of our adjustment is applicable. **(C)** Profile likelihood for the time delay, τ , for infected cells to become infectious.