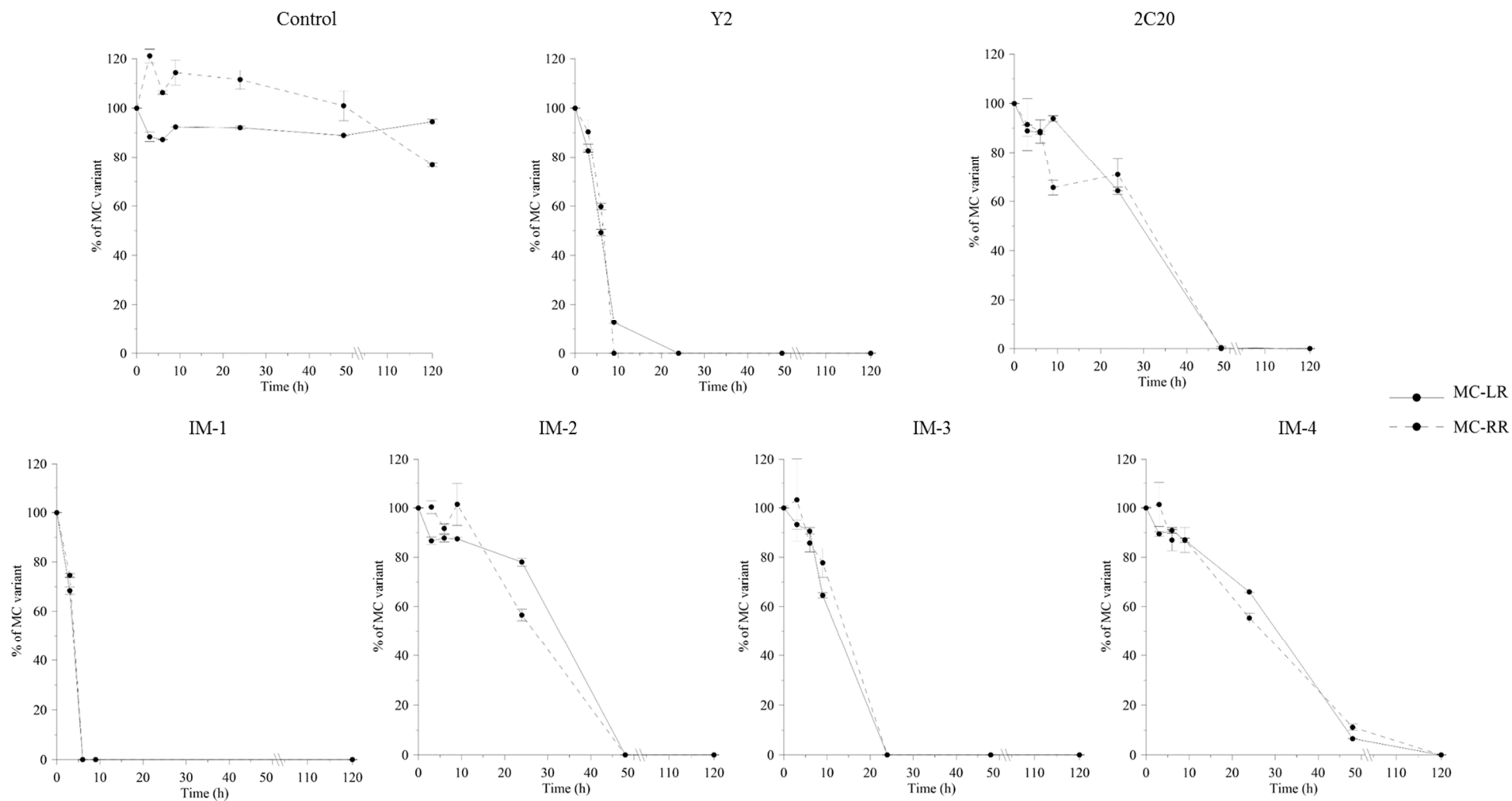


# Supplementary Materials: Presence or Absence of *mlr* Genes and Nutrient Concentrations Co-Determine the Microcystin Biodegradation Efficiency of a Natural Bacterial Community

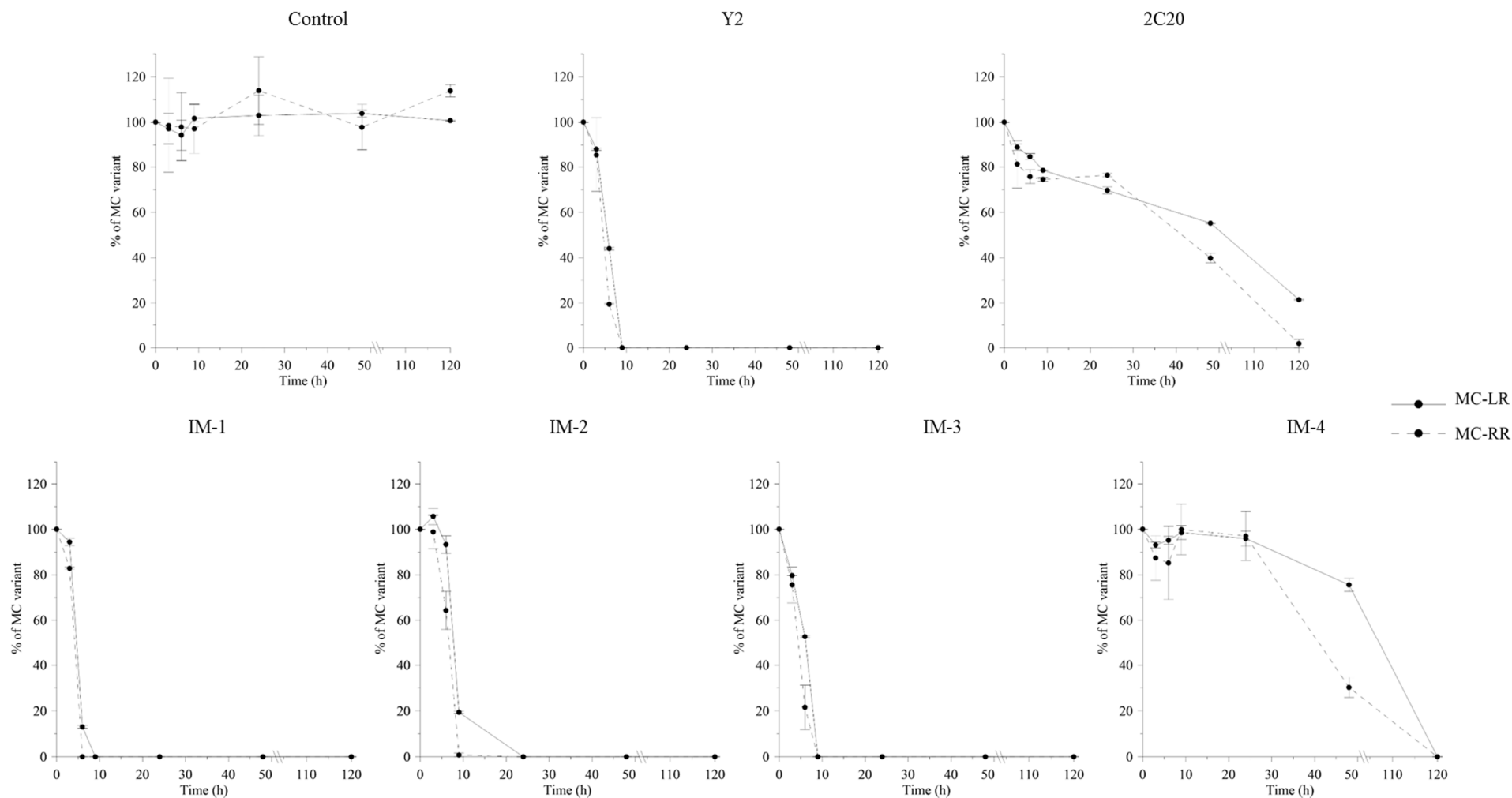
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**Table S1.** Average bacterial growth rates ( $\text{mg}\cdot\text{L}^{-1}\cdot\text{h}^{-1}$ ) during MCs degradation in MSM, reservoir water and  $\frac{1}{4}$  R2A medium enriched with 1 mg equivalent MC-LR·L<sup>-1</sup> of total MCs. Errors represent standard errors of two replicates. “n.d.” means not detected.

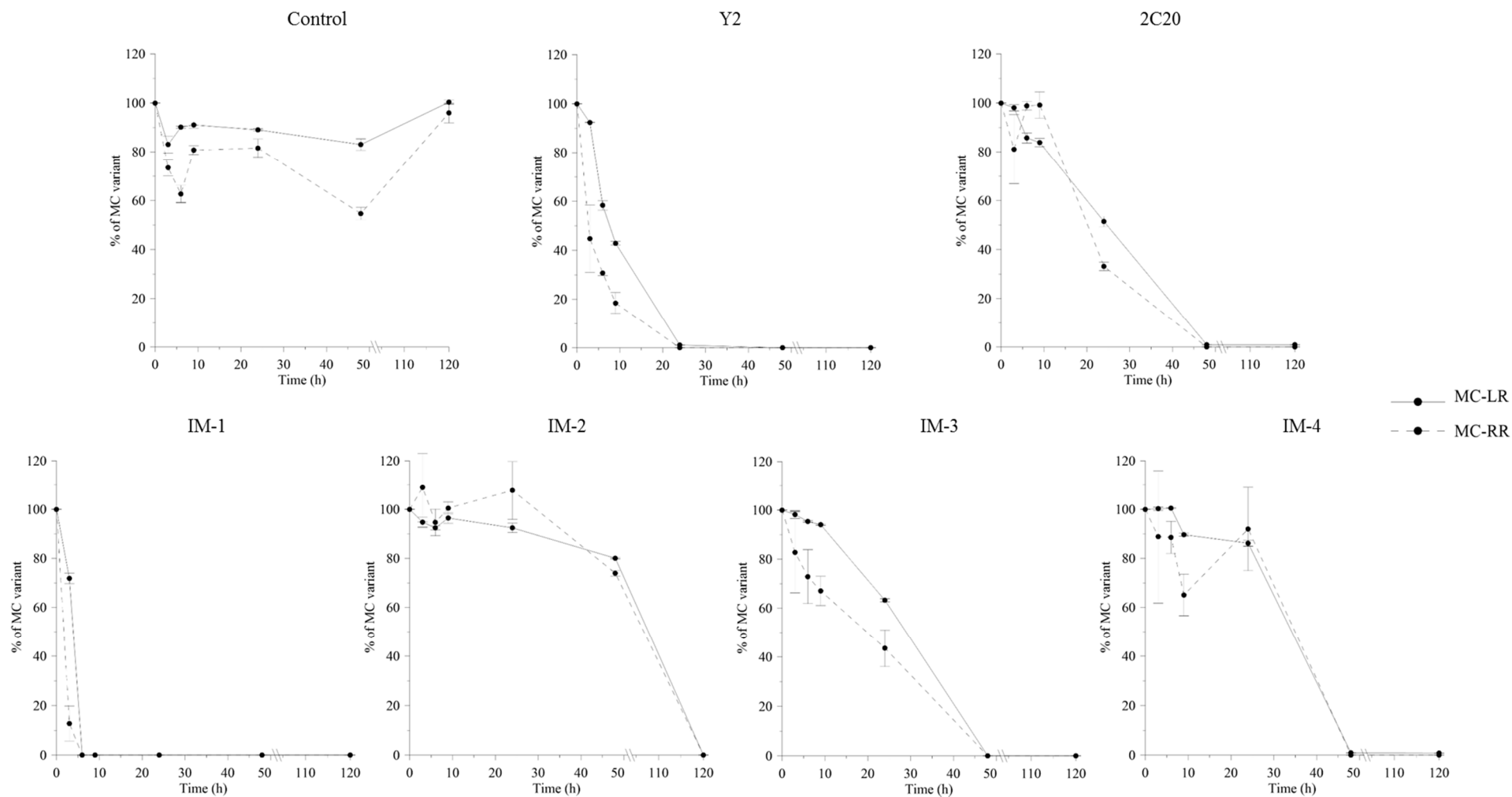
Bacterial strains	Average bacterial growth rates ( $\text{mg}\cdot\text{L}^{-1}\cdot\text{h}^{-1}$ )		
	MSM	$\frac{1}{4}$ R2A medium	Reservoir water
Control	n.d.	n.d.	n.d.
Y2	n.d.	$0.25 \pm 0.01$	n.d.
2C20	n.d.	$0.28 \pm 0.00$	n.d.
IM-1	n.d.	$0.47 \pm 0.00$	n.d.
IM-2	n.d.	$0.87 \pm 0.06$	n.d.
IM-3	n.d.	$0.73 \pm 0.04$	n.d.
IM-4	n.d.	$0.21 \pm 0.01$	n.d.



**Figure S1.** Biodegradation of MC-LR and MC-RR variants by bacterial genotypes *mlr*<sup>+</sup> (strains Y2, IM-1, IM2 and IM-3) and *mlr*<sup>-</sup> (strains 2C20 and IM-4) incubated in MSM for 120 h. A negative control without bacteria was included. Error bars represent standard errors of two replicates.



**Figure S2.** Biodegradation of MC-LR and MC-RR variants by bacterial genotypes *mlr*<sup>+</sup> (strains Y2, IM-1, IM2 and IM-3) and *mlr*<sup>-</sup> (strains 2C20 and IM-4) incubated in 1/4 R2A medium for 120 h. A negative control without bacteria was included. Error bars represent standard errors of two replicates.



**Figure S3.** Biodegradation of MC-LR and MC-RR variants by bacterial genotypes *mlr*<sup>+</sup> (strains Y2, IM-1, IM2 and IM-3) and *mlr*<sup>-</sup> (strains 2C20 and IM-4) incubated in reservoir water for 120 h. A negative control without bacteria was included. Error bars represent standard errors of two replicates.