

Supplementary Materials for

**Identification and characterization of a marine bacterium extract from *Mameliella* sp.
M20D2D8 with antiviral effects against influenza A and B viruses**

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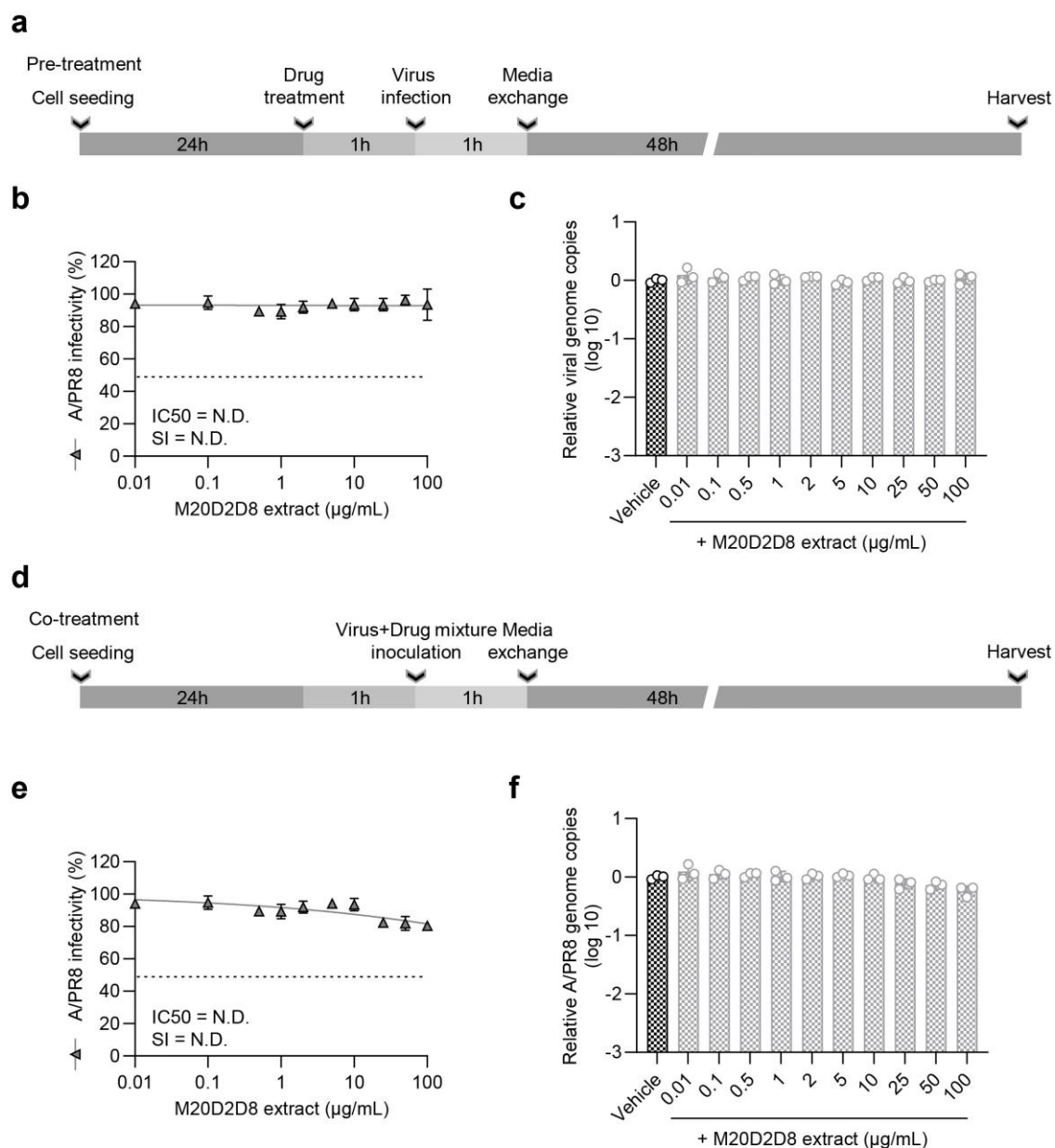
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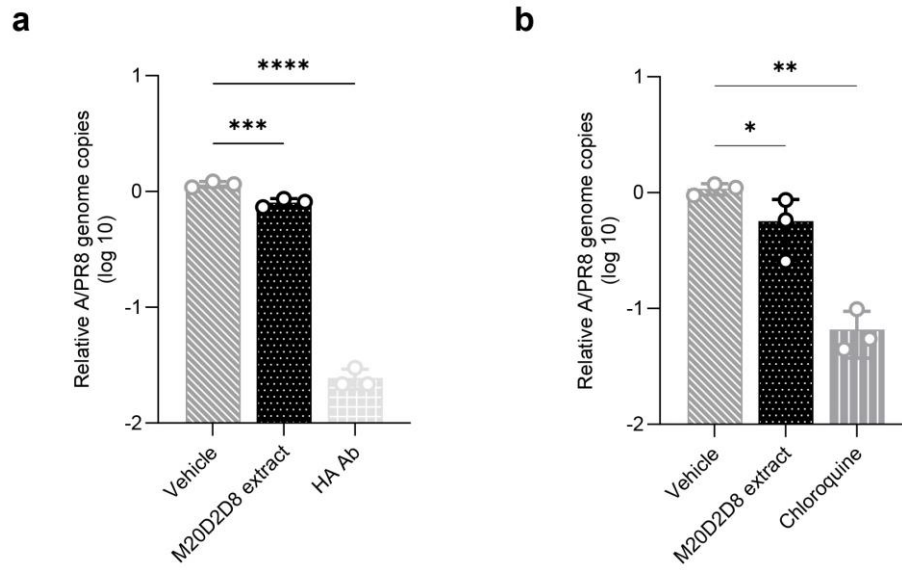
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Figures S1 to S2



Supplementary Fig. S1. Antiviral effect of M20D2D8 extract by pre-treatment (A-C) and co-treatment (D-F) against A/PR8 strain. (A) Schematic diagram of virus inoculation and extract treatment. (B) IC₅₀ and SI of M20D2D8 extract measured by CPE-inhibition assay. (C) Viral genome copies detected by RT-qPCR. (D) Schematic diagram of virus inoculation and extract treatment. (E) IC₅₀ and SI of M20D2D8 extract measured by CPE-inhibition assay. (F) Viral genome copies detected by RT-qPCR. All data in the graphs are presented as arithmetic means $\pm$ S.D. from 3 independent experiments.



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35 **Supplementary Fig. S2.** Virus attachment **(A)** and penetration assay **(B)**. **(A)** Viral genome copies by pre-
 36 treatment of the extract before virus binding. **(B)** Viral genome copies by post-treatment after virus binding. All
 37 data in the graphs are presented as arithmetic means $\pm$ S.D. from 3 independent experiments. HA, haemagglutinin;
 38 IAV NP, nucleoprotein. *, $P < 0.05$; **, $P < 0.01$; ***, $P < 0.001$, ****, $P < 0.0001$.