

Table S2. Comparison of the analytical condition of mbLFIA with different signal amplification strategies

Method	Bioenzyme	Instrument	in-field test	LOD	Reference
RT-PCR	Yes	Yes	No	2064 copies/mL	[1]
RT-RCA CRISPR Cas	Yes	No	No	1.1 fM 215 copies/reaction	[2,3]
CHA	No	No	No	10 nM	[4]
CHA-LFIA	No	No	Yes	0.5 nM	[5]
mbLFIA	No	No	Yes	2 pM	This work

Reference

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3. Athipanyasilp N, Saowpak S, Chaimayo C, Angkasekwinai N, Pattama A, et al. 2026. CRISPR-Cas13a SHERLOCK assay for rapid and sensitive detection of chikungunya virus. *MICROBIOLOGY SPECTRUM* 14
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