

Consensus 3 day HA Consensus MN Assay for laboratory comparison of of A(H1N1)pdm09 virus - developed by the CONSIZE Laboratory Working Group

Parameter	Required Parameter	Recommended parameter
A. Stock Virus preparation Cell substrate for virus growth Stock virus infectivity and method of determination Stock storage		Day 10 embryonated eggs, MDCK cells, MDCK-SIAT1 cells At least 10 ⁶ TCID ₅₀ /ml, read by RBC agglutination Aliquots of bulk virus preparation
B. Sera preparation Storage of sera following receipt Pre-assay treatment of sera Initial sera dilution Sample type	1:10	-70 °C, -20 °C, 4 °C, 1-2 freeze thaw cycles in testing laboratory Heat treatment 56 °C for 30 min, undiluted in media - sera only OR plasma only
C. Virus preparation Final virus concentration per well Volume of virus solution added per sample/well Virus/serum mix incubation Calculated starting sera dilution	100TCID ₅₀ 50 µl, 100 µl, 200µl 1:10 excluding virus volume	50 µl 1h at 37 °C -
D. Cell preparation Preparation of cells Cell type used Assay diluent Cell infection media		preformed monolayer MDCK (ATCC), MDCK ('Salisbury'), MDCK-SIAT1 Coon's/Dulbecco's Modified Eagles, with trypsin (1/2 µg/ml), laboratory preferred media Coon's/Dulbecco's Modified Eagles, with trypsin (1/2 µg/ml), laboratory preferred media
E. Assay set-up Incubation time of assay to endpoint reading Incubation conditions # of sample replicates	3 days	35 °C, 37 °C, 5% CO ₂ Replicates
F. Endpoint estimation Endpoint determination Endpoint calculation method	50% neutralization,	turkey/guinea pig RBC agglutination, CPE