



TECH DATA SHEET

TiterSafe Hemagglutinating Particles

DESCRIPTION

Product	TiterSafe Hemagglutinating Particles, Influenza A
Catalog Number	HAP-1219
Lot	IAH-948A
Subtype	H3N2
Strain	District of Columbia/27/2023
Size	200µL/vial
Packaging	DMEM
Dilution Ratio at 1 HA Unit	1:512
Dilution Ratio at 4 HA Units	1:128
HAI Darwin serum dilution	1:2048 (lowest serum dilution to achieve inhibition)
Expiration Date	August 2028

SAFETY & HANDLING

Shipping	Shipped on dry ice
Stability and Storage	Store at $\leq -80^{\circ}\text{C}$ upon receipt.

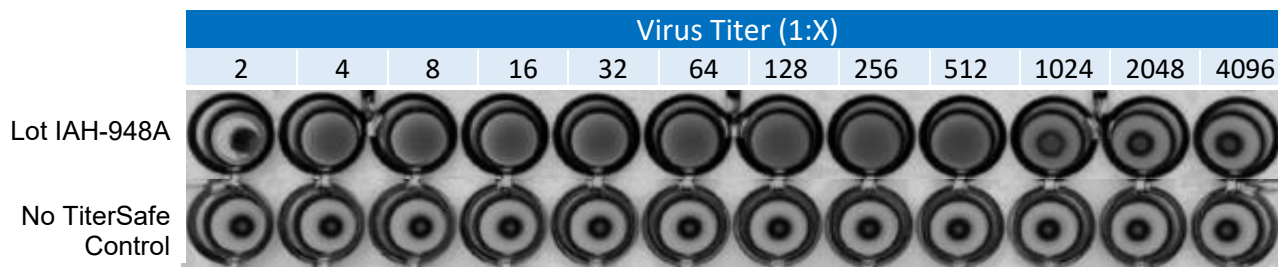
TiterSafe particles are optimized for use in HA and HAI assays. TiterSafe particles display antigenically correct HA/NA protein pseudotyped on replication-incompetent virus particles that contain a heterologous lentiviral (HIV) core. TiterSafe particles are capable of a single round of infection. TiterSafe particles are produced in HEK-293T cells using three separate plasmids, encoding the HA protein, the NA protein, and a lentiviral gag polyprotein.

TiterSafe particles are derived from biological materials, so they should be handled with caution within a laboratory environment. TiterSafe particles are not to be used in humans or in animals raised for food.

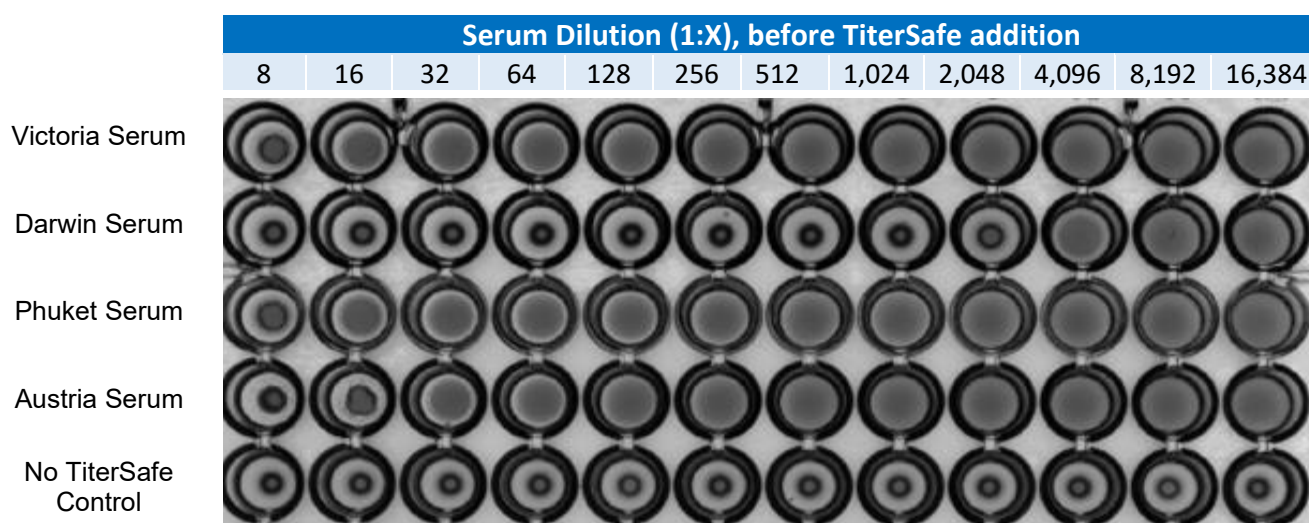
Thaw tubes in a 37°C water bath for 1 minute and place on ice until ready to use. TiterSafe particles will appear as a translucent solution. Gently mix prior to use and pulse tube for 3 seconds at high speed in a tabletop microfuge to recover all volume from the tube. Avoid vortexing TiterSafe particles. Re-freezing of TiterSafe particles is not recommended.

HA AND HAI DATA

Lot IAH-948A HA assay



Lot IAH-948A HAI assay



HA and HAI assays were performed using 1% Guinea Pig RBCs in a 96-well plate. Neuraminidase maintains enzymatic activity that may interfere with hemagglutination at concentrations used in HA, but not HAI assays (HA assay, column 1).

The HA assay was used to determine an Influenza A TiterSafe titer at 4 HA units. The titer at 4 HA units and hyperimmune serum were used to perform the HAI assay. Reported serum dilutions are defined prior to TiterSafe volume addition.