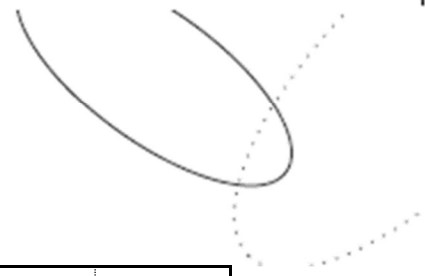


Seasonal Influenza strains September 2023

Type	Strain	Assay				Animal model	
		HAI	MN	TCID50	EC50	mouse	ferret
H1N1	A/Bayern/69/2009				√		
	A/Bolivia/559/2013						
	A/Brisbane/59/2007	√					
	A/California/04/2009						
	A/California/04/2009 ma					√	
	A/California/07/2009	√	√	√	√		√
	A/California/07/2009NYMCx179						
	A/California/07/2009NYMCV						
	A/Christchurch/16/2010						
	A/Georgia/1/2013						
	A/Massachusetts/11/2013						
	A/Mexico/4482/2009						
	A/Mexico/4108/2009				√		
	A/Michigan/45/2015						
	A/NewHampshire/4/2013						
	A/NewCaledonia/20/1999	√	√		√		
	A/New Jersey/08/1976						
	A/Singapore/GP1908/2015 x						
	A/Texas/01/1977 (IVR-180)						
	A/SolomonIsland/03/2006	√					√
A/St. Petersburg/61/2015							
A/ Puerto Rico/15/2018		√	√			√	
Influenza A - H1N1 (pdm09)							
H3N2	A/Aichi/2/1968 x 32 ma						
	A/Brisbane/10/2007	√			√		
	A/Hong Kong/4801/2014	√					
	A/Kumanioto/102/2002						
	A/Minnesota/11/2010						
	A/ NewYork/55/2004	√			√		
	A/Panama/2007/1999						√
	A/Perth/16/2009	√	√	√	√		
A/Texas/50/2012	√	√					



	A/Singapore/INFIMH-16-0019/2016						
	A/Switzerland/9715293/2013						
	A/Victoria/361/2011	√	√				√
	A/Victoria/210/2009						√
	A/Vietnam/361/2011						
	A/Wellington/01/2004						
	A/Wisconsin/67/2005	√			√		√
	A/Wisconsin/67/2005xPR8						
	A/Wyoming/03/2003						
	A/Shanghai/2/2013XPRB						
	A/Hongkong/2671/2019						
	A/Singapore/GP/908/2015						

H9N2	A/chicken/HongKong/G9/1997						
	A/Hong Kong/1073/97						
	A/Hong Kong/1073/99						
B	B/Brisbane/60/2008	√	√	√			
	B/Brisbane/33/2008						
	B/Colorado/06/2017						
	B/Florida/04/2006	√					
	B/Hubei- Wujiagang/158/2009Bx-39						
	B/Jiangsu/10/2003	√					
	B/Massachusetts/2/2012	√	√				
	B/Massachusetts/2506/2004						
	B/Malaysia/2506/2004	√					
	B/Phuket/3073/2013	√					
	B/Sichuan/379/1999						
	B/Shanghai/361/2002						
	B/Texas/06/2011	√					
	B/Wisconsin/1/2010	√	√				√
	B/Texas/02/2013						