CLAIMS

1. A multivalent immunogenic influenza composition comprising

(a) a detergent-core nanoparticle, wherein the detergent-core nanoparticle comprises a recombinant influenza hemagglutinin (HA) glycoprotein from a Type B influenza strain; and

(b) a Hemagglutinin Saponin Matrix Nanoparticle (HaSMaN), wherein the HaSMaN comprises a recombinant influenza HA glycoprotein from a Type A influenza strain and ISCOM matrix adjuvant, wherein the ISCOM matrix adjuvant consists of Fraction A Matrix and Fraction C Matrix; and

(c) a pharmaceutically acceptable buffer.

2. The composition of claim 1 comprising an additional one or more detergent-core nanoparticles and an additional one or more HaSMaNs, wherein each detergent-core nantoparticle comprises a Type B strain HA glycoprotein, and each HaSMaN comprises a Type A strain HA glycoprotein, and wherein each HA glycoprotein is from a different influenza strain.

3. The composition of claim 1, wherein each of the nanoparticles is a trypsin-resistant nanoparticle.

4. The composition of claim 1, wherein the Fraction A Matrix and Fraction C Matrix are present at 85:15; w/w.

5. The composition of claim 1, wherein the detergent is PS-80.

6. The composition of claim 5, wherein the PS-80 detergent is present at about 0.03% to about 0.5%.

7. The composition of claim 5, wherein the PS-80 detergent is present at about 0.04%.

8. The composition of claim 1, wherein the influenza strain is of a subtype selected from the group consisting of H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H12, H13, H14, H15, H16, H17, and H18.

9. The composition of claim 1, wherein the pharmaceutically acceptable buffer comprises (i) sodium phosphate at about 25 mM; (ii) sodium chloride at about 150 mM; (iii) arginine hydrochloride at about 100 mM; (iv) trehalose at about 5%; wherein the composition pH is at about 7.5.

10. A prefilled syringe or blow-fill seal container comprising the composition of claim 1.

11. The prefilled syringe or blow-fill seal container of claim 9, wherein the composition is stable for at least 12 months.

12. The prefilled syringe or blow-fill seal container of claim 10, wherein the composition is stable at 25°C.

13. A method of stimulating an immune response against influenza comprising administering the multivalent influenza composition of claim 1.

14. The method of claim 13, wherein the composition is administered intramuscularly.

15. The composition of claim 1, wherein the adjuvant is present at about 50 μg to about 75 μg per dose.

16. The composition of claim 1, wherein the recombinant influenza HA glycoprotein from the Type B influenza strain and the recombinant influenza HA glycoprotein from the Type A influenza strain are both present in an amount of about 60 μg.

17. The composition of claim 1, wherein the recombinant influenza HA glycoprotein from the Type B influenza strain and the recombinant influenza HA glycoprotein from the Type A influenza strain are both wild type influenza HA glycoproteins.

18. The composition of claim 1, wherein the recombinant influenza HA glycoprotein from the Type B influenza strain and the recombinant influenza HA glycoprotein from the Type A influenza strain are expressed in a host cell.

19. The composition of claim 18, wherein the host cell is an insect Sf9 cell.

20. The composition of claim 18, wherein the recombinant influenza HA glycoprotein from the Type B influenza strain and the recombinant influenza HA glycoprotein from the Type A influenza strain are expressed using a baculovirus.