CLAIMS

1. A mixed carrier, multivalent pneumococcal conjugate composition, comprising 16 different pneumococcal capsular polysaccharide-protein conjugates, wherein each pneumococcal capsular polysaccharide-protein conjugate comprises a protein carrier conjugated to a capsular polysaccharide from a different serotype of *Streptococcus pneumoniae*, wherein the *Streptococcus pneumoniae* serotypes are 1, 3, 4, 5, 6A, 6B, 7F, 9V, 12F, 14, 18C, 19A, 19F, 22F, 23F, and 33F, wherein the protein carrier is CRM_{197} or tetanus toxoid, wherein two of the capsular polysaccharides are conjugated to tetanus toxoid and the remaining capsular polysaccharides are conjugated to CRM_{197}, and wherein the two capsular polysaccharides that are conjugated to tetanus toxoid are selected from the group consisting of serotypes 1, 3, and 5.

2. The mixed carrier, multivalent pneumococcal conjugate composition of claim 1, wherein the capsular polysaccharides from serotypes 1 and 5 are conjugated to tetanus toxoid, and the capsular polysaccharides from serotypes 3, 4, 6A, 6B, 7F, 9V, 12F, 14, 18C, 19A, 19F, 22F, 23F, and 33F are conjugated to CRM_{197}.

3. The mixed carrier, multivalent pneumococcal conjugate composition of claim 1, wherein the capsular polysaccharides from serotypes 1 and 3 are conjugated to tetanus toxoid, and the capsular polysaccharides from serotypes 4, 5, 6A, 6B, 7F, 9V, 12F, 14, 18C, 19A, 19F, 22F, 23F, and 33F are conjugated to CRM_{197}.

4. The mixed carrier, multivalent pneumococcal conjugate composition of claim 1, wherein the capsular polysaccharides from serotypes 3 and 5 are conjugated to tetanus toxoid, and the capsular polysaccharides from serotypes 1, 4, 6A, 6B, 7F, 9V, 12F, 14, 18C, 19A, 19F, 22F, 23F, and 33F are conjugated to CRM_{197}.

5. The mixed carrier, multivalent pneumococcal conjugate composition of claim 1, further comprising an adjuvant.

6. The mixed carrier, multivalent pneumococcal conjugate composition of claim 5, wherein the adjuvant is an aluminum-based adjuvant.

7. The mixed carrier, multivalent pneumococcal conjugate composition of claim 6, wherein the adjuvant is selected from the group consisting of aluminum phosphate, aluminum sulfate, and aluminum hydroxide.

8. The mixed carrier, multivalent pneumococcal conjugate composition of claim 7, wherein the adjuvant is aluminum phosphate.

9. A vaccine comprising the mixed carrier, multivalent pneumococcal conjugate composition of claim 1 and a pharmaceutically acceptable excipient.

10. A method for prophylaxis of *Streptococcus pneumoniae* infection or disease in a subject, the method comprising administering a prophylactically effective amount of the mixed carrier, multivalent pneumococcal conjugate composition of claim 1 to the subject.

11. The method of claim 10, wherein the subject is a human who is at least 50 years old and the disease is pneumonia or invasive pneumococcal disease (IPD).

12. The method of claim 10, wherein the subject is a human who is at least 6 weeks old and the disease is pneumonia, invasive pneumococcal disease (IPD), or acute otitis media (AOM).

13. The method of claim 12, wherein the subject is 6 weeks to 5 years of age, 2 to 15 months of age, or 6 to 17 years of age.

14. The method of claim 10, wherein the subject is a human.

15. The method of claim 10, wherein the mixed carrier, multivalent pneumococcal conjugate composition is administered by intramuscular injection.

16. The method of claim 10, wherein the mixed carrier, multivalent pneumococcal conjugate composition is administered as part of an immunization series.

17. A method for prophylaxis of *Streptococcus pneumoniae* infection or disease in a subject, the method comprising administering the vaccine of claim 9 to the subject.