Claims

1. An immunogenic composition comprising glycoconjugates from *S. pneumoniae* serotypes 1, 3, 4, 5, 6A, 6B, 7F, 8, 9V, 10A, 11A, 12F, 14, 15B, 18C, 19A, 19F, 22F, 23F and 33F and additionally comprises from 1 to 5 glycoconjugates from *S. pneumoniae* serotypes 15A, 23A, 23B, 24F and/or 35B.
2. The immunogenic composition of claim 1 which is a 21, 22, 23, 24 or 25-valent pneumococcal conjugate composition.
3. The immunogenic composition of claim 1 comprising glycoconjugates from *S. pneumoniae* serotypes 1, 3, 4, 5, 6A, 6B, 7F, 8, 9V, 10A, 11A, 12F, 14, 15A, 15B, 18C, 19A, 19F, 22F, 23A, 23B, 23F, 24F, 33F and 35B.
4. The immunogenic composition of claim 3 which is a 25-valent pneumococcal conjugate composition.
5. The immunogenic composition of any one of claims 1-4 wherein:
    - said *S. pneumoniae* serotype 15A glycoconjugate comprises a serotype 15A capsular polysaccharide having a weight average molecular weight (Mw) between 75 kDa and 250 kDa and/or;
    - said *S. pneumoniae* serotype 15A glycoconjugate has a weight average molecular weight (Mw) of between 1,000 kDa and 6,000 kDa and/or;
    - the serotype 15A polysaccharide to carrier protein ratio (w/w) in the *S. pneumoniae* serotype 15A glycoconjugate is between 0.5 and 1.5 and/or;
    - the degree of conjugation of said *S. pneumoniae* serotype 15A glycoconjugate is between 5 and 10 and/or;
    - said *S. pneumoniae* serotype 15A glycoconjugate comprises less than about 25% of free serotype 15A polysaccharide compared to the total amount of serotype 15A polysaccharide and/or;
    - between 50% and 90% of said serotype 15A glycoconjugate has a Kd below or equal to 0.3 in a CL-4B column.
6. The immunogenic composition of any one of claims 1-5 wherein the carrier protein of said *S. pneumoniae* serotype 15A glycoconjugate is CRM_{197}.
7. The immunogenic composition of any one of claims 1-6 wherein said *S. pneumoniae* serotype 15A glycoconjugate is prepared using reductive amination chemistry.
8. The immunogenic composition of any one of claims 1-7 wherein:
    - said *S. pneumoniae* serotype 23A glycoconjugate comprises a serotype 23A capsular polysaccharide having a weight average molecular weight (Mw) between 110 kDa and 250 kDa and/or;
    - said *S. pneumoniae* serotype 23A glycoconjugate has a weight average molecular weight (Mw) of between 1,000 kDa and 7,500 kDa and/or;

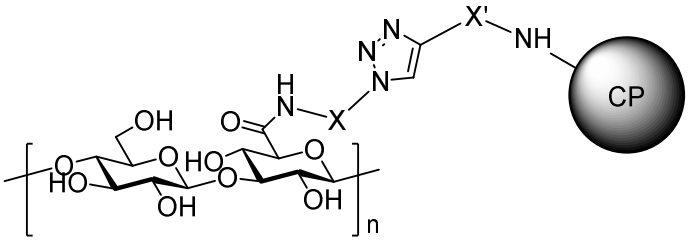
- the serotype 23A polysaccharide to carrier protein ratio (w/w) in the *S. pneumoniae* serotype 23A glycoconjugate is between 0.5 and 1.7 and/or;
- the degree of conjugation of said *S. pneumoniae* serotype 23A glycoconjugate is between 5 and 15 and/or;
- said *S. pneumoniae* serotype 23A glycoconjugate comprises less than about 25% of free serotype 23A polysaccharide compared to the total amount of serotype 23A polysaccharide and/or;
- between 50% and 90% of said serotype 23A glycoconjugate has a Kd below or equal to 0.3 in a CL-4B column and/or;
- said *S. pneumoniae* serotype 23A glycoconjugate comprises a *S. pneumoniae* serotype 23A capsular polysaccharide wherein said *S. pneumoniae* serotype 23A capsular polysaccharide has a branched Rhamnose content greater than 95% when compared to native *S. pneumoniae* serotype 23A capsular polysaccharide wherein the branched Rhamnose content is considered to be about 100%.

9. The immunogenic composition of any one of claims 1-8 wherein the carrier protein of said *S. pneumoniae* serotype 23A glycoconjugate is CRM_{197}.
10. The immunogenic composition of any one of claims 1-9 wherein said *S. pneumoniae* serotype 23A glycoconjugate is prepared using reductive amination chemistry.
11. The immunogenic composition of any one of claims 1-10 wherein:
    - said *S. pneumoniae* serotype 23B glycoconjugate comprises a serotype 23B capsular polysaccharide having a weight average molecular weight (Mw) between 75 kDa and 250 kDa.
    - said *S. pneumoniae* serotype 23B glycoconjugate has a weight average molecular weight (Mw) of between 500 kDa and 4,000 kDa and/or;
    - the serotype 23B polysaccharide to carrier protein ratio (w/w) in the *S. pneumoniae* serotype 23B glycoconjugate is between 0.5 and 1.5 and/or;
    - the degree of conjugation of said *S. pneumoniae* serotype 23B glycoconjugate is between 5 and 12 and/or;
    - said *S. pneumoniae* serotype 23B glycoconjugate comprises less than about 25% of free serotype 23B polysaccharide compared to the total amount of serotype 23B polysaccharide and/or;
    - between 40% and 60% of said serotype 23B glycoconjugate has a Kd below or equal to 0.3 in a CL-4B column.
12. The immunogenic composition of any one of claims 1-11 wherein the carrier protein of said *S. pneumoniae* serotype 23B glycoconjugate is CRM_{197}.
13. The immunogenic composition of any one of claims 1-12 wherein said *S. pneumoniae* serotype 23B glycoconjugate is prepared using reductive amination chemistry.
14. The immunogenic composition of any one of claims 1-13 wherein:

- said *S. pneumoniae* serotype 24F glycoconjugate comprises a serotype 24F capsular polysaccharide having a weight average molecular weight (Mw) between 120 kDa and 250 kDa and/or;
- said *S. pneumoniae* serotype 24F glycoconjugate has a weight average molecular weight (Mw) of between 1,500 kDa and 7,500 kDa and/or;
- the serotype 24F polysaccharide to carrier protein ratio (w/w) in the *S. pneumoniae* serotype 24F glycoconjugate is between 0.7 and 1.5 and/or;
- the degree of conjugation of said *S. pneumoniae* serotype 24F glycoconjugate is between 5 and 12 and/or;
- said *S. pneumoniae* serotype 24F glycoconjugate comprises less than about 25% of free serotype 24F polysaccharide compared to the total amount of serotype 24F polysaccharide and/or;
- between 50% and 90% of said serotype 24F glycoconjugate has a Kd below or equal to 0.3 in a CL-4B column and/or;
- said *S. pneumoniae* serotype 24F glycoconjugate comprises a *S. pneumoniae* serotype 24F capsular polysaccharide wherein said *S. pneumoniae* serotype 24F capsular polysaccharide has a Ribose content greater than 95% when compared to native *S. pneumoniae* serotype 24F capsular polysaccharide wherein the Ribose content is considered to be about 100%.

15. The immunogenic composition of any one of claims 1-14 wherein the carrier protein of said *S. pneumoniae* serotype 24F glycoconjugate is CRM_{197}.
16. The immunogenic composition of any one of claims 1-15 wherein said *S. pneumoniae* serotype 24F glycoconjugate is prepared using reductive amination chemistry.
17. The immunogenic composition of any one of claims 1-16 wherein:
    - said *S. pneumoniae* serotype 35B glycoconjugate comprises a serotype 35B capsular polysaccharide having a weight average molecular weight (Mw) between 25 kDa and 50 kDa and/or;
    - said *S. pneumoniae* serotype 35B glycoconjugate has a weight average molecular weight (Mw) of between 500 kDa and 5,000 kDa and/or;
    - the serotype 35B polysaccharide to carrier protein ratio (w/w) in the *S. pneumoniae* serotype 35B glycoconjugate is between 0.4 and 2.0 and/or;
    - the degree of conjugation of said *S. pneumoniae* serotype 35B glycoconjugate is between 5 and 10 and/or;
    - *S. pneumoniae* serotype 35B glycoconjugate comprises less than about 20% of free serotype 35B polysaccharide compared to the total amount of serotype 35B polysaccharide and/or;
    - between 50% and 80% of said serotype 35B glycoconjugate has a Kd below or equal to 0.3 in a CL-4B column.

18. The immunogenic composition of any one of claims 1-17 wherein the carrier protein of said *S. pneumoniae* serotype 35B glycoconjugate is CRM_{197}.
19. The immunogenic composition of any one of claims 1-18 wherein said *S. pneumoniae* serotype 35B glycoconjugate is prepared using reductive amination chemistry.
20. The immunogenic composition of any one of claims 1-19 wherein all the glycoconjugates are individually conjugated to the carrier protein.
21. The immunogenic composition of any one of claims 1-20 wherein the glycoconjugate from *S. pneumoniae* serotype 3 is conjugated to CRM_{197}.
22. The immunogenic composition of any one of claims 1-20 wherein the glycoconjugate from *S. pneumoniae* serotype 3 is conjugated to SCP.
23. The immunogenic composition of any one of claims 1-22 wherein the glycoconjugates from *S. pneumoniae* serotype 8, 10A, 11A, 12F, 15B, 22F, 33F are conjugated to CRM_{197}.
24. The immunogenic composition of any one of claims 1-23 wherein the glycoconjugates from *S. pneumoniae* serotypes 1, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F and 23F are conjugated to CRM_{197}.
25. The immunogenic composition of any one of claims 1-21 wherein the glycoconjugates are all individually conjugated to CRM_{197}.
26. The immunogenic composition of any one of claims 1-20 wherein the glycoconjugate from *S. pneumoniae* serotype 3 is conjugated to SCP and the other glycoconjugates are all individually conjugated to CRM_{197}.
27. The immunogenic composition of any one of claims 1 to 26 wherein said glycoconjugate from *S. pneumoniae* serotype 3 comprises a serotype 3 saccharide covalently conjugated to a carrier protein (CP) through a spacer and have the general formula (VII):



(VII),

wherein X is selected from the group consisting of $CH_2(CH_2)_{n'}$, $(CH_2CH_2O)_mCH_2CH_2$, $NHCO(CH_2)_{n'}$, $NHCO(CH_2CH_2O)_mCH_2CH_2$, $OCH_2(CH_2)_{n'}$ and $O(CH_2CH_2O)_mCH_2CH_2$; where n' is selected from 1 to 10 and m is selected from 1 to 4,

and wherein X' is selected from the group consisting of $CH_2O(CH_2)_{n''}CH_2C{=}O$, $CH_2O(CH_2CH_2O)_{m'}(CH_2)_{n''}CH_2C{=}O$, where n'' is selected from 0 to 10 and m' is selected from 0 to 4.