

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	William J. Smith et al.		
Serial No.:	16/208,778	Case No.:	24534-US-NP
Filed:	December 4, 2018		Art Unit: 1645
For:	Compositions Comprising Streptococcus Pneumoniae Polysaccharide-Protein Conjugates and Methods of Use Thereof		Confirmation No.: 2714
			Examiner: Navarro, Albert Mark

COMMISSIONER FOR PATENTS
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AMENDMENT

Sir:

Applicant files herewith an amendment in response the the Examiner's Notice of Allowance and Fee(s) Due, dated March 12, 2021, in the above-referenced application. This amendment is submitted concurrently with an Information Disclosure Statement and Request for Continued Examination.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks begin on page 15 of this paper.

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

(1) (Previously Presented) A multivalent immunogenic composition comprising 21 distinct *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, and wherein the *S. pneumoniae* serotypes are selected from the group consisting of:

- I) 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20A;
- II) 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20B;
- III) 3, 7F, 19A, 22F, 33F, 6C, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20A; and
- IV) 3, 7F, 19A, 22F, 33F, 6C, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20B;

wherein the composition does not comprise polysaccharide carrier protein conjugates containing polysaccharides of any other *S. pneumoniae* serotype.

(2) (Cancelled)

(3) (Previously Presented) The multivalent immunogenic composition of claim 1, wherein at least one of the polysaccharide carrier protein conjugates is formed by a conjugation reaction comprising an aprotic solvent.

(4) (Previously Presented) The multivalent immunogenic composition of claim 1, wherein each of the polysaccharide carrier protein conjugates is formed by a conjugation reaction comprising an aprotic solvent.

(5) (Original) The multivalent immunogenic composition of claim 4, wherein the aprotic solvent is dimethylsulfoxide (DMSO).

(6) (Original) The multivalent immunogenic composition of claim 1, wherein the carrier protein is selected from the group consisting of Outer Membrane Protein Complex (OMPC), tetanus toxoid, diphtheria toxoid, protein D and CRM197.

(7) (Original) The multivalent immunogenic composition of claim 6, wherein the carrier protein is CRM197.

(8) (Original) The multivalent immunogenic composition of claim 1, wherein the composition further comprises an adjuvant.

(9) (Original) The multivalent immunogenic composition of claim 1, wherein the composition does not comprise an adjuvant.

(10) (Cancelled)

(11) (Cancelled)

(12) (Cancelled)

(13) (Cancelled)

(14) (Cancelled)

(15) (Cancelled)

(16) (Cancelled)

(17) (Cancelled)

(18) (Cancelled)

(19) (Cancelled)

(20) (Cancelled)

(21) (Cancelled)

(22) (Cancelled)

(23) (Cancelled)

(24) (Cancelled)

(25) (Cancelled)

(26) (Cancelled)

(27) (Cancelled)

(28) (Cancelled)

(29) (Cancelled)

(30) (Previously Presented) A multivalent immunogenic composition comprising 21 distinct *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes are 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20A, and the carrier protein is CRM197, and wherein the composition does not comprise polysaccharide carrier protein conjugates containing polysaccharides of any other *S. pneumoniae* serotype.

(31) (Cancelled)

(32) (Original) The multivalent immunogenic composition of claim 30, wherein each of the polysaccharide carrier protein conjugates is formed by a conjugation reaction comprising an aprotic solvent, wherein the aprotic solvent is dimethylsulfoxide (DMSO).

(33) (Original) The multivalent immunogenic composition of claim 30, wherein the composition does not comprise an adjuvant.

(34) (Previously Presented) A multivalent immunogenic composition comprising 21 distinct *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes are 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15B, 17F, 20A, 6A, 15A, 16F, 23A, 23B, 24F, 31 and 35B, and the carrier protein is CRM197, and wherein the composition does not comprise polysaccharide carrier protein conjugates containing polysaccharides of any other *S. pneumoniae* serotype.

(35) (Previously Presented) The multivalent immunogenic composition of claim 34, wherein each of the polysaccharide carrier protein conjugates is formed by a conjugation reaction comprising an aprotic solvent, wherein the aprotic solvent is dimethylsulfoxide (DMSO).

(36) (Previously Presented) The multivalent immunogenic composition of claim 34, wherein the composition does not comprise an adjuvant.

(37) (Cancelled)

(38) (Cancelled)

(39) (Cancelled)

(40) (Cancelled)

(41) (Canceled)

(42) (Canceled)

(43) (Previously Presented) A multivalent immunogenic composition comprising 20 distinct *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes are 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15B, 17F, 20A, 6C, 15A, 16F, 23F, 24F, 31 and 35B, and the carrier protein is CRM197, and wherein the composition does not comprise polysaccharide carrier protein conjugates containing polysaccharides of any other *S. pneumoniae* serotype.

(44) (Previously Presented) The multivalent immunogenic composition of claim 43, wherein each of the polysaccharide carrier protein conjugates is formed by a conjugation reaction comprising an aprotic solvent, wherein the aprotic solvent is dimethylsulfoxide (DMSO).

(45) (Previously Presented) The multivalent immunogenic composition of claim 43, wherein the composition does not comprise an adjuvant.

(46) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, and wherein the *S. pneumoniae* serotypes are selected from the group consisting of:

- (1) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15C, 17F, 20A, 6C, 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (2) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15C, 17F, 20A, 6C, 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (3) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15B, 17F, 20A, 6C, 15A, 16F, 23A, 23B, 24F, 31 and 35B,

- (4) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15B, 17F, 20A, 6C, 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (5) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15C, 17F, 20A 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (6) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15C, 17F, 20A, 6A, 6B, 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (7) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15C, 17F, 20A, 6A, 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (8) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15C, 17F, 20A 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (9) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15C, 17F, 20A, 6A, 6B, 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (10) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15C, 17F, 20A, 6A, 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (11) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15B, 17F, 20A 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (12) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15B, 17F, 20A, 6A, 6B, 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (13) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15B, 17F, 20A, 6A, 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (14) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15B, 17F, 20A 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (15) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15B, 17F, 20A, 6A, 6B, 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (16) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15B, 17F, 20A, 6A, 15A, 16F, 23A, 23B, 24F, 31 and 35B,
- (17) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15C, 17F, 20A, 6C, 15A, 16F, 23F, 24F, 31 and 35B,
- (18) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15C, 17F, 20A, 6C, 15A, 16F, 23F, 24F, 31 and 35B,
- (19) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15B, 17F, 20A, 6C, 15A, 16F, 23F, 24F, 31 and 35B,
- (20) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15B, 17F, 20A, 6C, 15A, 16F, 23F, 24F, 31 and 35B,

- (21) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15C, 17F, 20A, 15A, 16F, 23F, 24F, 31 and 35B,
- (22) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15C, 17F, 20A, 6A, 6B, 15A, 16F, 23F, 24F, 31 and 35B,
- (23) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15C, 17F, 20A, 6A, 15A, 16F, 23F, 24F, 31 and 35B,
- (24) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15C, 17F, 20A, 15A, 16F, 23F, 24F, 31 and 35B,
- (25) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15C, 17F, 20A, 6A, 6B, 15A, 16F, 23F, 24F, 31 and 35B,
- (26) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15C, 17F, 20A, 6A, 15A, 16F, 23F, 24F, 31 and 35B,
- (27) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15B, 17F, 20A, 15A, 16F, 23F, 24F, 31 and 35B,
- (28) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15B, 17F, 20A, 6A, 6B, 15A, 16F, 23F, 24F, 31 and 35B,
- (29) 3, 7F, 19A, 22F, 33F, 8, 9N, 10A, 11A, 12F, 15B, 17F, 20A, 6A, 15A, 16F, 23F, 24F, 31 and 35B,
- (30) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15B, 17F, 20A, 15A, 16F, 23F, 24F, 31 and 35B,
- (31) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15B, 17F, 20A, 6A, 6B, 15A, 16F, 23F, 24F, 31 and 35B,
- (32) 3, 7F, 19A, 22F, 33F, 8, 9N, 39, 11A, 12F, 15B, 17F, 20A, 6A, 15A, 16F, 23F, 24F, 31 and 35B,
- (33) 3, 7F, 19A, 22F, 33F, 6C, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20B,
- (34) 3, 7F, 19A, 22F, 33F, 6C, 15A, 16F, 23A, 23B, 24B, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20A,
- (35) 3, 7F, 19A, 22F, 33F, 6C, 15A, 16F, 23A, 23B, 24B, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20B,
- (36) 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20B,
- (37) 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24B, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20A,

- (38) 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24B, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20B,
- (39) 3, 7F, 19A, 22F, 33F, 6C, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20,
- (40) 3, 7F, 19A, 22F, 33F, 6C, 15A, 16F, 23A, 23B, 24B, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20,
- (41) 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20, and
- (42) 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24B, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20,

wherein the composition does not comprise polysaccharide carrier protein conjugates containing polysaccharides of any other *S. pneumoniae* serotype.

(47) (Previously Presented) The multivalent immunogenic composition of claim 46, wherein at least one of the polysaccharide carrier protein conjugates is formed by a conjugation reaction comprising an aprotic solvent.

(48) (Previously Presented) The multivalent immunogenic composition of claim 46, wherein each of the polysaccharide carrier protein conjugates is formed by a conjugation reaction comprising an aprotic solvent.

(49) (Previously Presented) The multivalent immunogenic composition of claim 48, wherein the aprotic solvent is dimethylsulfoxide (DMSO).

(50) (Previously Presented) The multivalent immunogenic composition of claim 46, wherein the carrier protein is selected from the group consisting of Outer Membrane Protein Complex (OMPC), tetanus toxoid, diphtheria toxoid, protein D and CRM197.

(51) (Previously Presented) The multivalent immunogenic composition of claim 50, wherein the carrier protein is CRM197.

(52) (Previously Presented) The multivalent immunogenic composition of claim 46, wherein the composition further comprises an adjuvant.

(53) (Previously Presented) The multivalent immunogenic composition of claim 46, wherein the composition does not comprise an adjuvant.

(54) (Previously Presented) The multivalent immunogenic composition of claim 46, wherein the *S. pneumoniae* serotype 15C polysaccharide is a de-O-acetylated *S. pneumoniae* serotype 15B polysaccharide.

(55) (Previously Presented) The multivalent immunogenic composition of claim 1, wherein the *S. pneumoniae* serotype 15C polysaccharide is a de-O-acetylated *S. pneumoniae* serotype 15B polysaccharide.

(56) (Previously Presented) The multivalent immunogenic composition of claim 30, wherein the *S. pneumoniae* serotype 15C polysaccharide is a de-O-acetylated *S. pneumoniae* serotype 15B polysaccharide.

(57) (Cancelled)

(58) (Cancelled)

(59) (Previously Presented) The multivalent immunogenic composition of claim 54, wherein the de-O-acetylated 15B polysaccharide has an O-Acetyl content per repeating unit of less than 5%.

(60) (Previously Presented) The multivalent immunogenic composition of claim 55, wherein the de-O-acetylated 15B polysaccharide has an O-Acetyl content per repeating unit of less than 5%.

(61) (Previously Presented) The multivalent immunogenic composition of claim 56, wherein the de-O-acetylated 15B polysaccharide has an O-Acetyl content per repeating unit of less than 5%.

(62) (Previously Presented) A multivalent immunogenic composition comprising 21 distinct *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of

the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes are 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, de-O-acetylated 15B, 17F, and 20A, and the carrier protein is CRM197, and wherein the composition does not comprise polysaccharide carrier protein conjugates containing polysaccharides of any other *S. pneumoniae* serotype.

(63) (Previously Presented) The multivalent immunogenic composition of claim 62, wherein the de-O-acetylated 15B polysaccharide has an O-Acetyl content per repeating unit of less than 5%.

(64) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist essentially of 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, de-O-acetylated 15B, 17F, and 20A, and the carrier protein is CRM197.

(65) (Previously Presented) The multivalent immunogenic composition of claim 64, wherein the de-O-acetylated 15B polysaccharide has an O-Acetyl content per repeating unit of less than 5%.

(66) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist essentially of 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20A, and the carrier protein is CRM197.

(67) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist essentially of 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15B, 17F, and 20A, and wherein the carrier protein is CRM197.

(68) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist of 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, de-O-acetylated 15B, 17F, and 20A, and the carrier protein is CRM197.

(69) (Previously Presented) The multivalent immunogenic composition of claim 68, wherein the de-O-acetylated 15B polysaccharide has an O-Acetyl content per repeating unit of less than 5%.

(70) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist of 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20A, and the carrier protein is CRM197.

(71) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist of 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15B, 17F, and 20A, and wherein the carrier protein is CRM197.

(72) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist essentially of 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, de-O-acetylated 15B, 17F, and 20, and the carrier protein is CRM197.

(73) (Previously Presented) The multivalent immunogenic composition of claim 72, wherein the de-O-acetylated 15B polysaccharide has an O-Acetyl content per repeating unit of less than 5%.

(74) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist essentially of 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20 and the carrier protein is CRM197.

(75) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist essentially of 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15B, 17F, and 20, and wherein the carrier protein is CRM197.

(76) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist of 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, de-O-acetylated 15B, 17F, and 20, and the carrier protein is CRM197.

(77) (Previously Presented) The multivalent immunogenic composition of claim 76, wherein the de-O-acetylated 15B polysaccharide has an O-Acetyl content per repeating unit of less than 5%.

(78) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist of 3, 7F, 19A, 22F, 33F, 6A, 15A,

16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15C, 17F, and 20 and the carrier protein is CRM197.

(79) (Previously Presented) A multivalent immunogenic composition comprising *S. pneumoniae* polysaccharide carrier protein conjugates, wherein each of the conjugates comprises a polysaccharide of a particular *S. pneumoniae* serotype conjugated to a carrier protein, wherein the *S. pneumoniae* serotypes consist of 3, 7F, 19A, 22F, 33F, 6A, 15A, 16F, 23A, 23B, 24F, 31, 35B, 8, 9N, 10A, 11A, 12F, 15B, 17F, and 20, and wherein the carrier protein is CRM197.