## SUMMARY OF PRODUCT CHARACTERISTIC

1. GENERIC NAME OF THE VACCINE:

#### : Pneumococcal Polysaccharide Vaccine I.P. (23 valent) Generic name

Pharmaceutical Form

#### This vaccine is a clear, colourless solution

#### 2. QUALITATIVE AND QUANTITATIVE COMPOSITION:

Injection

Each dose of 0.5 mL contains

Raw Material	Quantity	Function
Active Ingredient		
Type 1 Pneumococcal Polysaccharide	25 µg	Antigen
Type 2 Pneumococcal Polysaccharide	25 µg	Antigen
Type 3 Pneumococcal Polysaccharide	25 µg	Antigen
Type 4 Pneumococcal Polysaccharide	25 µg	Antigen
Type 5 Pneumococcal Polysaccharide	25 µg	Antigen
Type 6B Pneumococcal Polysaccharide	25 µg	Antigen
Type 7F Pneumococcal Polysaccharide	25 µg	Antigen
Type 8 Pneumococcal Polysaccharide	25 µg	Antigen
Type 9N Pneumococcal Polysaccharide	25 µg	Antigen
Type 9V Pneumococcal Polysaccharide	25 µg	Antigen
Type 10A Pneumococcal Polysaccharide	25 µg	Antigen
Type 11A Pneumococcal Polysaccharide	25 µg	Antigen
Type 12F Pneumococcal Polysaccharide	25 µg	Antigen
Type 14 Pneumococcal Polysaccharide	25 µg	Antigen
Type 15B Pneumococcal Polysaccharide	25 µg	Antigen
Type 17F Pneumococcal Polysaccharide	25 µg	Antigen
Type 18C Pneumococcal Polysaccharide	25 µg	Antigen
Type 19A Pneumococcal Polysaccharide	25 µg	Antigen
Type 19F Pneumococcal Polysaccharide	25 µg	Antigen
Type 20 Pneumococcal Polysaccharide	25 µg	Antigen
Type 22F Pneumococcal Polysaccharide	25 µg	Antigen
Type 23F Pneumococcal Polysaccharide	25 µg	Antigen
Type 33F Pneumococcal Polysaccharide	25 µg	Antigen
Inactive ingredients		
Sodium Dihydrogen Phosphate	30 µg	Maintenance osmotic pressure
Disodium Hydrogen Phosphate	35.5 µg	Maintenance osmotic pressure
Sodium Chloride	4.25 mg	Maintenance osmotic pressure
Water for injection	To 0.5 mL	Diluent

Total amount of polysaccharide per PFS=632.5 µg/0.55 ml

pivotal clinical trial and equally divided into the study group and control group and randomized to four age groups, including 250 subjects of 2-6 old of age, 250 subjects of 7-17 old of age, 600 subjects of 18-59 old of age and E00 achieves aged for a chever

old of age, 250 subjects of 7 – 17 did of age, 600 subjects of 18–59 old of age and 500 subjects aged 60 or abwe. The antibody geometric mean concentrations (GMCs) of 23 serulypes in the test group ranged from 3.55 to 36.96, here was no significant difference between the test group and control group, nor was there any significant difference in each serotype GMC before vaccination. The double increase rates of antibody concentration for all serotypes reached non-inferiority for the test group compared to the control group. The antibody GMCs and rates for antibody fold increase in antibody GMCs not group were significantly higher or not lower than those in the control group. Pro Bg, the attibody GMC and rate for antibody fold increase in the test group were significantly higher or not lower than those in the anormal level. a normal leve

#### 5.2.PHARMACOKINETIC PROPERTIES Not applicable

#### 6 NONCLINICAL PROPERTIES

6. NONCLINICAL PROPERTIES 61. ANIMAL TOXICOLOGY AND PHARMACOLOGY: TOXICOLOGY: In the allergen test in guinea pigs, we used 30 healthy guinea pigs weigh 250g-350g as subjects, and set up test group, positive control group and engative control group respectively. For test group, 6 guinea pigs were injected with this vaccine for 3 times respectively on the day 0, 2 and 4, each guinea pig was intraperioreal injected with 0.5 mL of the finished product for sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product of the sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product first sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product for sensitization test each time; 14 days after the first injection, the product test sensitization test each time; 14 days after the first injection, the product test sensitization test each test sensitization test sensitiz guinea pigs were intravenous injected with 1.0 mL of the same batch of the finished product for provocation. For positive control group, the guinea pigs were injected in the same way with the calf serum. For negative control

were injected in the same way with the call serum. For negative control group, the guines apigs were injected in the same way with normal salme. The guines pigs were observed for 30 minutes for abnormal reactions and the healthy status of the guines pigs were observed for 7 days continuously. The test results showed that this vaccine did not contain any allergens, and the guines pigs in the test group gained weight and didn't have any abnormal reaction. The data indicates that the product is safe and effective. In acute toxicity in mice, we used health mice weigh 17-22g and random to guine to 2 groups during test-10 mice in each group. According to the clinical concentration, the maximum intramuscular injection dose volume for mouse muscle is 10 mice in the control group with normal salm. The results showed that the appearance, physical signs, mential and movement status of all the mice were normal. All natural holes were clean, and there was no obvious abnormal reaction observed. were clean, and there was no obvious abnormal reaction observed. Compared with the control group, there was no abnormal weight change in the test group at each time point. The results showed that after intramuscularly injecting with 10 mL/kg of this vaccine, the Kunming mice

intramscularly injecting with 10 mL/kg of this vaccine, the Kumming mice were in good condition, without any abnormal changes in body weight or food intake; no toxic reaction occurs after administration. In the abnormal toxicity test in guines pigs, easel guines pigs was administrated at a clinical concentration of 5 mL/animal (10 times the human does). So there were 2 guines pigs in each group. Each guines pig was intrapertioneal injected with 5 mL of this vaccine each time. The appearance, physical signs, general behavior, mental condition, betarhing, gentials and periand, fecal and urine, dying or dead condition, etc. were observed from the administration day, and observed continuously for 7 days. On the 7<sup>m</sup> day after administration, each guinea pig gained weight. The abnormal toxicity

test of 5 ml /quinea pig (10 times the human dose) proved gualified. The owed that there was no toxicity introd ced or added into toet reculte ch ients during the vaccine manufacturing process. onclusion, the results of toxicological tests showed that the animal

safety of this vaccine produced by our company is relia

#### 7 CLINICAL EVIDENCE ON INDIAN POPULATION

7. CLINICAL EVIDENCE ON INDIAN POPULATION A randomized, ouble bilind, parallel group, multicenter phase III clinical tri was conducted in the indian population to demonstrate the non-inferior immunogenicity and safety of 23-valent Pneumococal Polysaccharide Vaccine PPSV23 of G. C. Chemie Pharmie Ltd, as compared to current reference 23-valent Pneumococcal Polysaccharide vaccine in India, in 268 healthy adults aged 18 to 65 years. Subjects were randomized to receive single does of either a 23-valent pneumococcal polysaccharide investigational vaccine of G. C. Chemie Pharmie Ltd, or current reference 23-valent Pneumococcal Polysaccharide vaccine in India, by a single intramuscular injection (0.5 mL) in the detoid muscle of shoulder enzion. enter phase III clinical trial

Plan line club of utiline line 24-valarit Plantinuctoca Plantinuctor vaccine in Industry a single intracucular injection (0.5 mL) in the defloid subjects with history of neuroacocal intection, allergic reaction to vaccination, hornow or suspected immunodificiency, saplenia, immunosuppressive drugs taken (like chemotherapy in last 5 years or controcateriotis last 6 months) to blood products releving in last 3 months, thrombocytopenia or blood products releving in last 3 months, thrombocytopenia or blood products releving in last 3 months, thrombocytopenia or blood products releving in last 3 months, thrombocytopenia or blood products releving in last 3 months, thrombocytopenia or blood products releving in last 3 months, thrombocytopenia or blood products releving in the study. Subjects who have been administered any preunococcal vaccine before, or received and inactivated vaccine in the 14 days before vaccine before, or received and inactivated vaccine in the 14 days before vaccination, and those with tebrie liness (≥ 38°C) in 3 days or any acute infector/illness in last 7 days, were also excluded. The vaccination was bone on Day 0 (visit 1). Local and systemic solicited reactions were observed immediately after vaccination (up to 30 minutes)

s were obse bserved immediately after vaccination (up to 30 minutes jent days (Day 0-7). Unsolicited Adverse events were als and in 7 subs and in 7 subsequent days (Day 0-7). Onsolicited Adverse events where an monitored for 28 days post vaccination. Blood samples were obtained fir subjects at baseline/Day 0 (before first vaccination) and at the end of the study on Day 28 (follow-up visit) for immunogenicity evaluation. Immunogenicity was assessed in subject/s serium samples by analyzing anti-pneumococcal neutralizing antibodies by means of Multi-Analyte Immunodetection (MAD) assay method. The assay detected all of the 23 serotypes in the 23-valent polysaccharide vaccine (1, 2, 3, 4, 5, 68, 7F, 8, 9N, 99, 104, 114, 12F, 14, 158, 14, 158).

Percentage of subjects exhibiting a > 2-fold increase in

nti-pneumococcal IgG antibody level for all included 23 serotypes (1, 2, 3, , 5, 6B, 7F, 8, 9N, 9V, 10A, 11A, 12F, 14, 15B, 17F, 18C, 19F, 19A, 20, 22F

4.5, teg. 7; r.5, sm, sw, 10k, 11k, 12r, 14r, 105, 17r, 16u, 19r, 19k, 40, 22r, 22S, and 33F, alter vacination in each group (servoursion rate), \* Geometric mean totic increase (GMH) and geometric mean concentration/tite (GMS-GMHs) (tig d after vaccination in each group, concentration/tite (GMS-GMHs) (tig d) after vaccination in each group. The fordering of systemic and local average densities. In healthy subjects after vaccination (to g) to 7 minute) and in 7 subsequent day. (Day O-1) a fordering a diversity and average events within 28 days after vaccination, to 10 minute) and average events within 28 days after vaccination. ncidence of SAE during the entire study period.

# Results: In the PPSV23 group, percentage of subjects that attained

≥2-fold seroconversion rate of anti-pneumococcal antibody varied from 72.39% to 96.27% for all 23 serotypes, whereas in the reference vaccine

#### 3 DOSAGE FORM scular route of administration

4. CLINICAL PARTICULARS

#### 4.1. THERAPEUTIC INDICATION: It is a vaccine indicated for active immunization for the prevention of

pneumococcal disease caused by the 23 serotypes contained in the vaccine (1, 2, 3, 4, 5, 6B, 7F, 8, 9N, 9V, 10A, 11A, 12F, 14, 15B, 17F, 18C, 19F, 19A, 20. 22F. 23F and 33F). 20, 22F, 23F and 33F). This vaccine is proposed for use in adults aged 18 to 65 years when administered in single dose of 0.5 ml

#### 4.2. POSOLOGY AND METHOD OF ADMINISTRATION

•• nto the deltoid muscle on site and route: Admin ter intrami 

## 4.3. CONTRAINDICATIONS:

PPSV 23 should not be administered to:

Individuals with allergic reactions to any component of the vaccine.
 Subjects with encephalopathy, uncontrolled epilepsy, or other progressive

disease of nervous system. · Subjects with fever, acute infection, chronic disease at stage of

acute attack 

- O not administer subcutaneously or intradermalor - Do not administer subcutaneously or intradermalor and ensure the needle not penetrated in the blood vessel. - The vaccine shall be administered with caution to the subjects with family or individual history of convulsion, history of epilepsy, allergic diathesis, and nursing women. • Check the container for package, label, validity period meeting the

Viets the container ton package, table, valuely period inteeining the requirements. Do not use the value coine if the container shows abnormalities, such as crack, label missing, foreign matters, vaccine turbid or change color, and exceed validity period.
 The vaccine with the entire contents shall be administered immediately

after the container is opened.

 Adrenaline should be available for first aid in case of severe anaphylactic reactions. The recipient shall be observed for at least 30 minutes on site following injection

## Freezing is strictly forbidden.

4.5. DRUG INTERACTIONS: : led to be given concurrently with other

#### 4.6 PREGNANCY AND LACTATION

4.6 precisionance range data and a second second

#### 4.7 FEFECTS ON ABILITY TO DRIVE AND LISE MACHINES No studies on the effects on the ability to drive and use been performed with PPSV 23. phinae have

#### 4.8. UNDESIRABLE EFFECTS:

According to the adverse reactions reported in domestic clinical trials, the rates of adverse reactions, as Council for International Organizations of

common (1% –10%, including 1%), uncommon (0.1% ~ 1%, including 0.1%), rare (0.01% ~ 0.1%, including 0.01%), extremely rare (< 0.01%) which are described as follow: Medical Sciences (CIOMS) recommends, are extremely common (>10%)

# Extremely common: Injection-site pain (mild and transient).

Common. Injection-site reactions: erythema, swelling, pruritus.
 Svstemic reactions: Fever, fatigue, headache, diarrhe

#### Uncommon

Injection-site reactions: induration

 Systemic reactions: indutation
 Systemic reactions: vomiting, skin rash, allergy.
The following adverse reactions are observed in the use of the same category of vaccine

Cellulitis, the reported reaction usually occurs quickly following vaccination

in post marketing use. • Hypersensitivity reactions: including anaphylactoid reactions, serum

sickness, angioneurotic edema. • Nervous system: radiculoneuritis, Guillain-Barre syndrome, febrile

convulsion Hematologic/ lymphatic system: lymphadenitis. lymphadenopathy

 remaining or pyrtpriate system: impnadentits, imphadenopathy, thrombrocytopenia in patients with stabilized idiopathic thrombocytopenic purpura, thrombocytopenia, hemolytic anemia in patients who have had other hematologic disease, leukocytosis. anomenon also reported can completely resolve

other hematologic unsease, where a complete - Rare Arthus phenomenon, also reported, can complete loaving no sequela, usually seen in patients with high leve

Rare Arthus phenomenon, also repure, can completely resource, leaving no sequela, usually see in patients with high levels of pneumococcal antibodies. Wide spraeded skin rash and utilicaria Wagla, arthralgia If any adverse reactions not included above occur after administering this vaccine, please contact and report to your physician.

4.9. OVERDOSE: Not applicable

## 5 PHARMACOLOGICAL PROPERTIES

5. PHARMACCLOGICAL PROPERTIES 5.1. PHARMACCONYAMIC PROPERTIES A total of 1660 subjects were enrolled in the pivotal clinical trial which consists of two stages. The design of this two-stage pivotal clinical trial regarded the first stage as phase I and the second stage as phase III in the study protocol whereas the results were concluded together in clinical study report of the pivotal study report. A total of 60 subjects were enrolled in the first stage (Phase I) clinical trial which was aimed for reeliminarily terwise sketch observation form adults

A tota to do subjects where entoted an time has sage (rises 1) cuincat time which was aimed for preliminarily stepwise safety observation from adults  $\geq 18$  years to children aged 2-17 years. 30 adults aged  $\geq 18$  were enrolled firstly and administrated with 1 does of PSV23 accine. On the premise that there was no serious adverse event related to vaccination within 30-minute and 0-7-40 yoost-immutization in adult subjects, 30 children aged 2-17 were then enrolled, and safety within 30-minute and

0-7-day after 1 does of immunization were observed as well. As a summary for the phase I study, in both subjects  $\geq 18$  years and 2-7 years, no serious

for the phase I study, in both subjects > 18 years and 2-7 years, no serious adverse event related to the study vaccine was observed. The endpoint of phase I dimical trials was reached, which facilitated the second stage (phase III) chincal trials was reached, which facilitated the second stage (phase III) chincal trials was reached, which facilitated the second stage (phase III) chincal trials was reached, which facilitated the the protocol. The remaining 1600 subjects were enrolled in the second stage of the

#### 9.2 SHELF-LIFE

The shell fife is 24 months when stored in Pre-filled Syringe (USP type 1 glass) at +2°C to +8°C. The expiry date of the vaccine is indicated on the label and packaging.

**9.3 PACKAGING INFORMATION** Packed in prefilled syringe, 0.5 mL per syringe (borosilicate glass), sealed with a PP plunger rods with a rubber stopper. 1 syringe/box.

#### 9.4 STORAGE & HANDLING INSTRUCTION Store at +2°C to +8°C, protected from light

10 PATIENT COUNSELLING INFORMATION

Inform the patient, parent or guardian of the benefits and risks associated with vaccination.
 Tell the patient, parent or guardian that vaccination with this vaccine may

not offer 100% protection from pneumococcal infection. not offer 10% protection from pneumocal infection. Provide the patient, parent or guardian with the vaccine information statements required with each immunization. Instruct the patient, parent or guardian with the patient, parent or guardian the patient, parent or guardian with the patient, parent or guardian to the vaccine manufacture or importer or to CISSC0 and to PVTs uch events to the vaccine manufacture or importer or to CISSC0 and to PVTs.

## 11. DETAILS OF MANUFACTURER:

W/s. Yuxi Walvax Biotechnology Co., Ltd. Add: No. 83 South Dongfeng Road, High & New Technology Industries Development Zone, Yuxi, Yunnan, China Zip Code: 653100 Tel: +86-877-2076210, Fax: +86-877-2076918 Website: https://en.walvay.com

#### MARKETING AUTHORIZATION HOLDER OR IMPORT LICENSE HOLDER

Market ing Authorization Housen on import License Houser Name: M/s. G.C. Chemie Pharmie Ltd. Address: Bidg No. G Gala No 1 & 2 Ground Floor Global Warehousing OPP Kasturi Complex Rahnaltal Bhiwandi Thane Zone 5, Bhiwandi, Maharashtra (India) - 421302

12. DETAILS OF IMPORT LICENSE NUMBER WITH DATE Import License number - IL/BIO-000310 - RC/BIO-000306 Dated: 01-11-2022

#### 13. DATE OF REVISION

To report product complaint or Adverse Drug Reaction dial Toll Free no.: 18002020272 or email at adr@occpl.com.

oroup, the seroconversion rates varied from 70.15% to 98.51% for all 23

group. Systemic softched AEs: Amongst the systemic solicited AEs, fever was most commonly reported (PEN/23: 6, 448%; reference vaccine: 4, 29%), followed by hody ache (PEN/23: 2, 14%; reference vaccine: 1, 0.75%), Fatipue/ Malaise was reported by only one subject in the reference vaccine group whereas heradache was reported by only one subject in the PEN/23 group. No other systemic AEs were reported by any of the subjects in either vaccine group. All solicited local and systemic were mild in severity except two events (pain at injections site and fever) which were reported as moderate in severity, All events were resolved. No SAE was reported/recorded during the entire study period.

The data from this immunogenicity and safety study shows that the study

vaccine 23-valent Pneumococcal polysaccharide vaccine PPSV23 (G.C.Chemie Pharmie Ltd.) is immunogenic, safe and non-inferior comparator reference vaccine after single dose in healthy Indian a 8. DESCRIPTION

solution system, including pH value, ostnote pressure, rollic strength and etc., among them, pH is the most important factor. In order to ensure the effectiveness and safety of the product, adjust the osmotic pressure of antigen solution system to isotonic with body fluid, and adjust ionic strength

antigen solution system to isourine with body huid, and adjust tomic strength within body tolerance range, buffer system is added to maintain the constant pH value of the system. Several antigens coexist in a solvent system, the antigenic solution is packed into a prefilled syringe.

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

# 8. DESCHPTION The antigenicity of an antigen is determined by its primary structure (molecular composition) and its advanced structure (secondary structure and higher structure), the integrity of which is seriously influenced by the solution system, including pH value, comotic pressue, lonic strength and

9. PHARMACEUTICAL PARTICULARS

9.1 INCOMPATIBILITIES