



APIs
EXCIPIENTS
BIOPHARM

Huzhou Sunflower Pharmaceutical Co. Ltd.





Huzhou Sunflower Pharmaceutical Co. Ltd.(S-Pharma) was set up on the basis of the pharmaceutical department of Hangzhou Sunflower Technology Development Co. Ltd.(STD) in 2015. S-Pharma inherits all STD's assets such as facility, technology, products, team, management and trademarks, and focus on the development and producing of pharmaceutical excipients and API's. Led by Mr. Wu Jiaxiang, the main PVP founder in China, the team possessed tens of concerned process and application techniques, gathered 35 years of experience of sustainable R&D, engineering practice and marketing, specially in Polyvinylpyrrolidone series (Povidone, Crosspovidone, Copovidone and Povidone iodinated), Chondroitine Sulfate Sodium series and artificial cultivating of Cordyceps. The company is well known as full range covering, high quality and good service in the industry. The company is widely praised by the customer both at home and abroad.



The company has the GMP production lines of 600 tons annually of Povidone at low molecular weight (Povidone K12, K15, K17, K25 and K30), 800 tons annually of Povidone at high molecular weight (Povidone K60, K90, K120), 300 tons annually of Povidone Iodinated with high stability and 100tons annually of Chondroitine Sulfated Sodium. The company also first finished the industrial cultivation of artificial cultivating of Cordyceps and the concerned products are under marketing now. HSP will take pharmaceutical biological products or biological extracts with advantage of techniques or resources as the new development direction.

Our business philosophy is "People first, Innovation Oriented", and also our business objective is to continuously improve product with Speciality, Suitability and Superiority.

We wish to establish long term business relationship with the customers worldwide. We will provide you with quality products and sincere services. and create spiritual and material wealth with you.



PRODUCT LIST

APIs

POVIDONE-IODINE
POVIDONE-IODINE SOLUTION
CHONDROITIN SULFATE

SUNVIDONE® PI
SUNVIDONE® PIS
SUNBIOGENE™ CS

EXCIPIENTS

POVIDONE
COPOVIDONE
CROSPVIDONE

SUNVIDONE® K SERIES
SUNVIDONE® VA
SUNVIDONE™ CL SERIES

BIOPHARM

CORDYCEPS SINENSIS (BERK) SACC SUNBIOGENE™ CC



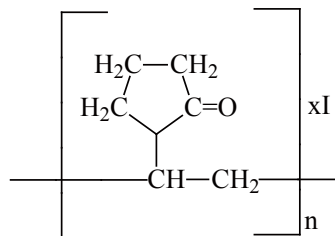
APIs

SUNVIDONE® PI

Synonyms: Povidone-iodine; Iodinated Povidone; Povidonum iodinatum
complexes of polyvinyl pyrrolidone and iodine

CTFA/INCI: PVP-Iodine

CAS No.: [25655-41-8]



SPECIFICATION

SUNVIDONE® PI meets the requirements of the latest USP, Ph.Eur., JP. and CP.

	PI	PIS-10	PIS-05
Appearance	Amorphous Powder	10% solution	5% solution
PH value (1%)	1.5-5.0	1.5-6.5	1.5-6.5
Iodide	6.0% max.	/	/
Loss on Drying	8.0% max.	/	/
Sulphated ash	0.1% max	/	/
Available iodine	9.0-12.0%	0.85-1.2%	0.43-0.6
Loss of Available iodine (1% available iodine, 15 hours at 80°C)	6.0% max.	10.0% max.	10.0% max.

CHARACTERISTICS

SUNVIDONE® PI is a yellowish-brown or reddish-brown, free-flowing powder.

SUNVIDONE® PIS is a deep-brown solution of Sunvidone® PI in water. They are stable broad spectrum and non-selective germicidal antiseptics and disinfectant which have detoxified iodine, no general odor, no loss of iodine, no detectable vapor pressure. They are water soluble, Film-forming and effective in dilute solution.

APPLICATIONS

SUNVIDONE® PI is noted for its wide range of uses.

Its major applications are in the field of prophylaxis:

- skin and mucous membrane antisepsis
- surgical and hygienic hand disinfection and in the field of treatment
- treatment of burns, decubitus and varicose ulcers
- use in the treatment of dermatomycosis, pyoderma and acne
- use in the treatment of vaginitis

The advantage of SUNVIDONE® PI is that it can be incorporated in a wide range of formulations.

PACKAGES

- SUNVIDONE® PI -- 25KG net in fiber drum
- SUNVIDONE® PIS -- 15ml to 500ml bottles or 50L to 200L PP drum

APIs

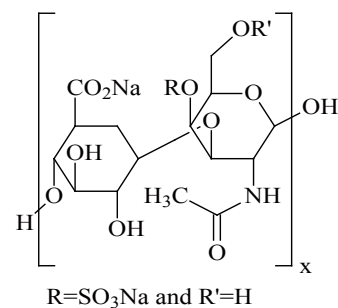
SUNBIOGENE™ CS

INCI/CTFA: Chondroitin sulfate sodium

CAS No.: [9007-28-7]

Trade Name: Sunbiogene™ CS

Sulfate ester of N-acetylhondrosamine/D-glucaronic acid copolymer obtained from bovine of shark cartilage of healthy animals used for food by humans.



SPECIFICATION

Sunbiogene™ cs series products meet the requirements of the latest USP.

Its have four grades of purity: 90%min., 95%min., 98%min. and injectable

Description	White or slight yellow powder	Limit of Protein	6.0% max.
Clarity and color of solution	Absorbance≤0.35	Loss on Drying	12% max.
Specific rotation	-20°~-30°	Residue on ignition	20.0-30.0%
PH value(1%)	5.5-7.5	Total Bacterial Count	1000CFU/G max.
Chloride	0.5% max.	Yeast and Molds	100CFU/G max.
Sulfate	0.24% max.	Saimonaiia species and E.coll	Negative
Electrophoretic purity	2% max.	Assay (basis on dried)	90.0-105.0%
Heavy Metals	20ppm max.		

CHARACTERISTICS

SUNBIOGENE™ CS is an important acidic mucopolsaccharide extracted from bovine and shark cartilage.

It is white or ivory white powder, and is extremely hygroscopic and easily dissolvable into water being sticky liquid.

It cannot be dissolved in organic reagent like alcohol, acetone, ether, chloroform etc.

Its salt are stable with heat.

APPLICATIONS

PHRMACEUTICAL

It is widely applied in the antirheumatic and anti-inflammatory products, and has clinical effects to prevent coronary heart disease, angina, myocardial infarction, insufficiency of coronary artery etc., without any side effect. Besides, it is also used in eyes drop, wound healing products.

DIETARY SUPPLEMENT

CS is used as an assistant treatment of degenerative arthropathia.

COSMETIC PRODUCTS

The general usage of CS is in the skin cream. With its moisturizing property, CS is an excellent emollient.

PACKAGES

25KG net in fiber drum or PP drum

EXCIPIENTS

SUNVIDONE® K

Synonyms: Povidone; Polyvidone; Povidonum; Polyvinylpyrrolidone

INCI: PVP

CAS NO.: [9003-39-8]

Trade Name: Sunvidone® K

All grades of SUNVIDONE K are supplied in the form of an almost white, free-flowing powder

They have a slight characteristic odour and are practically tasteless.

SPECIFICATION

SUNVIDONE® K series meet the requirements of the latest USP/NF, PhEur., JP/JPE and CP.

SUNVIDONE®	K15	K17	K25	K30	K90
Colour (5% in water) min.	BY ₆ , B ₆	BY ₆ , B ₆	BY ₆ , B ₆	BY ₆ , B ₆	BY ₆ , B ₆
K value	12.8-17.3	15.3-18.4	22.5-27.0	27.0-32.4	81.0-97.2
Impurity A, ppm max	10	10	10	10	10
Impurity B, %max	3.0	3.0	3.0	3.0	3.0
Formic Acid, %max	0.5	0.5	0.5	0.5	0.5
Peroxides, ppm max	400	400	400	400	400
Aldehyde, ppm max	500	500	500	500	500
Hydrazine, ppm max	1	1	1	1	1

CRACTERISTICS

White free flouring hygroscopic powder, freely soluble in ethanol, methanol, slightly soluble in acetone.

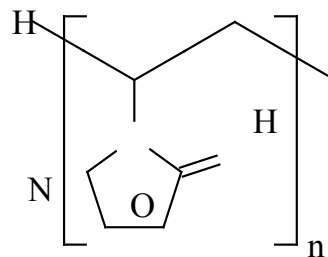
Because of its solubility in water and in many organic solvents, its high binding power and ability to form complexes, soluble polyvinylpyrrolidone occupies a special position among the synthetic colloids

APPLIICATIONS

Main application of the SUNVIDONE® K

Binder	Tablets, capsules, granules
Bioavailability enhancement	Tablets, capsules, granules, pellets, suppositories, transdermal systems
Film formation	Ophthalmic solutions, tables, medical plastics
Solubilization	Oral, Parenteral and topical solutions
Stabilization of suspensions	Oral and parenteral suspensions, instant beverage powders and granules
Hydrophylization	Medical plastics, retard preparations, suspensions
Adhesives	Transdermal systems, adhesive gels
Drug stabilization	Enzymes in diagnostics
Toxicity reduction	Tablets, capsules, granules
	Injection preparations

PACKAGES 25KG net in fiber drum or PP drum



EXCIPIENTS

SUNVIDONE® VA

Synonyms: Copovidone; Copolyvidone; PVP/ VAc

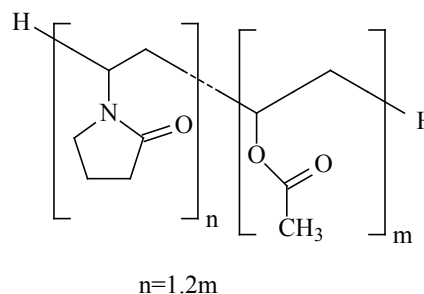
CTFA/INCI: VP/VA copolymer

CAS No.: [25086-89-9]

Trade Name: Sunvidone® VA

SUNVIDONE® VA is a vinylpyrrolidone-vinyl acetate copolymer that is soluble both in water and in alcohols.

It is used in the pharmaceutical industry as binders, granulating agents, retarding agents and film-forming agents in drugs.



SPECIFICATION

SUNVIDONE® VA meets the requirements of the latest USP/NF, Ph.Eur. and JPE

Appearance of solution (10%)	BY ₅ , B ₅ min.	Heavy metals	20ppm max
Aldehydes	500ppm max.	Loss on drying	5.0% max
Peroxides	400ppm max.	sulphated ash	0.1% max
Hydrazine	1ppm max.	K value	25.2-30.8
Monomers	0.1% max.	Ethenyl acetate	35.3%-42.0%
Impurity A	0.5% max.	Nitrogen	7.0%-8.0%

CHARACTERISTICS

White or slightly yellowish, free-flowing powder with a faint characteristic odor and practically no taste.

Sunvidone® VA readily dissolves in all hydrophilic solvents. Solutions of more than 10% concentration can be prepared in: water; ethanol; isopropanol; methylene chloride; glycerol; propylene glycol; It is less soluble in: ether; cyclic, aliphatic and alicyclic hydrocarbons.

APPLICATIONS

Binder for tablets and granules	Sunvidone® VA is an excellent binder for tablets and granules.
Dry binder for direct compression	Between 2% and 5%, as a proportion of the final weight of the preparation, is usually used.
Wet granulation	Sunvidone® VA forms films that are soluble at all pH values.
Film-coating	Sunvidone® VA is used in sugar-coating to improve the
Subcoating	adhesion of the coating to the surface of the tablet core and to
Sugar-coating	increase the capacity of the coating solution for pigments and
Sprays	improve their dispersibility.
Controlled-release preparations	

PACKAGES

20KG or 25KG net in fiber drum or PP drum

EXCIPIENTS

SUNVIDONE[®] CL

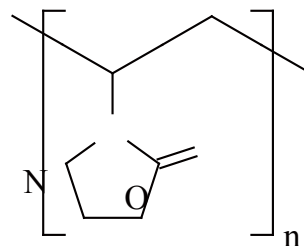
Synonyms: Crospovidone; Crospovidonum;

Insoluble polyvinylpyrrolidone, crosslinked PVP

INCI: PVPP

CAS No.: [9003-39-8]

Trade Name: Sunvidone[®] CL



SPECIFICATION

SUNVIDONE[®] CL series meet the requirements of the latest USP, Ph.Eur.

SUNVIDONE[®] CL

Identification	Type A	Type B
Particle size, ≤ 63 microns	85% max.	85% min.
> 63 microns	15% min.	15% max.
Water, % max.	5.0	5.0
Sulphate ash, % max	0.1	0.1
Water-soluble substances, % max.	1.5	1.5
Heavy metals, ppm max.	10	10
Vinylpyrrolidone, ppm max.	10	10
Peroxides (as H ₂ O ₂), ppm max.	400	1000
Nitrogen, %	11.0-12.8	11.0-12.8

CRACTERISTICS

SUNVIDONE[®] CL series are supplied as fine white or almost white powders. They have a slight characteristic odour and are practically tasteless. They are insoluble in all the usual solvents.

APPLIICATIONS

SUNVIDONE[®] CL series possess a number of useful properties for pharmaceutical products .

- Improvement of tablet disintegration and therefore also of release and bioavailability of drugs through predictable swelling (disintegration effect)
- Improvement of release and bioavailability of drugs through complexation.
- Selective adsorption of polyphenols by complexation
- Stabilization of suspensions by Sunvidone[®] CL, as a hydrophilic polymer
- Complexation of endotoxins
- Adsorption of water

PACKAGES

20KG or 25KG net in fiber drum or PP drum

BIOPHARM

SUNBIOGENE™ CC

Artificial cordyceps



SPECIFICATION

Artificial cordyceps stroma (Sunbiogene™ CC-1)

Description: It is the stroma of *Clavicipitium purpureum* cordyceps (*CORDYCEPS SINENSIS* BERK SACC) fungi, which is produced by cephalosporium strain at asexual stage in artificial solid culture. It is picked before spore shedding, with impurities removed, then dried at low temperature.

Quality and appearance: Rod-shaped, with lengths of 2-7cm and diameter of 2-4cm at upside of 1-2cm at bottom, brown yellow at facies, slightly fishy, slightly bitter.

	Cordyceps (natural)	Sunbiogene™ CC-1
Identification (thin layer chromatography)		Consistent with cordycepin sample
Test:		
Moisture	/	≤11.0%
Ashes	/	≤7.0%
Alcohol extraction	/	≥46.0%
Cordycepin (HPLC)	/	≥0.10%
Adenosine (HPLC)	≥0.010%	≥0.10%

CHARACTERISTICS & CHANNEL TROPISM

sweet, calm; lung and kidney tropism.

FUNCTIONS & INDICATIONS

invigorating the lung, and the kidney, stanching bleeding and eliminating sputum; remedy for chronic cough and dyspnea of deficiency type, tussis of fatigue and hemoptysis, impotence and spermatorrhea, aches at waist and knee

STORAGE	Keep in a ventilative and dry place, prevent from moth.
PACKAGES	1kg, 5kg or 10kg net in drum.



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