

Plant Sterols

Advasterol 95 IP F-200

Product Code: 11023195

Version BHU

Description

ADVASTEROL 95 IP F-200 is an off-white prill with slight characteristic vegetable oil aroma. Obtained from IP certified soybean, it is rich in Beta-Sitosterol, Stigmasterol and Campesterol, with small amounts of other sterols. ADVASTEROL 95 IP F-200 contains not less than 95% of total plant sterols and stanols.

Ingredients

- Natural phytosterols

Product Specifications

(Measured on each lot)

Total Plant Sterols + Stanols (%)	Min. 95.0
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Other Characteristics

Additional descriptive data (Tests are run sporadically)

Melting Point (°C)	135 - 145	Appearance	White to beige prills
Relative density (25°C)	0.30 - 0.50	Particle Size	>80% through sieve 35
			<15% through sieve

Microbiology

Total plate count (CFU/g)	Max. 1000	Salmonella (/25g)	Absent
Yeast and moulds (CFU/g)	Max. 100	Escherichia coli (CFU/g)	Max. 10
Coliforms (CFU/g)	Max. 10	Staphylococcus aureus (CFU/g)	Max. 10

Contaminants

Aflatoxin B1 (µg/kg)	Max. 2.0	Pesticide Residues (mg/kg)	Meets regulations
Sum of Aflatoxins (B1, B2, G1, G2) (µg/kg)	Max. 4.0	Sum of dioxins (WHO-PCDD/F-TEQ) (pg/g)	Max. 0.75
Organic Volatile Impurities USP	Passes	Sum of dioxins and dioxin like PCBS	
Heavy Metals as Pb (mg/kg)	Max. 10	WHO-PCDD/F-PCB-TEQ) (pg/g)	Max. 1.25
Cadmium (mg/kg)	Max. 0.20	Sum of PCB28, PCB52, PCB101, PCB138,	
Arsenic (mg/kg)	Max. 0.10	PCB153 & PCB180 (ICES-6) (ng/g)	Max. 40.0
Lead (mg/kg)	Max. 0.10		
Mercury (mg/kg)	Max. 0.10		
Sulphated Ash (%)	Max. 0.1		

Use Information

Used as a natural LDL Cholesterol reducer in a wide variety of food preparations. Due to its emulsifying and stabilizing properties find application in cosmetics.

Suggested manner of use is identical and as specified in following EC decisions: 2004/333, 2004/334, 2004/335, 2004/336, 2004/845, 2006/58 & 2008/36. Suggested daily intake for lowering LDL Cholesterol is 3 gr/day.

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Source and Manufacturing

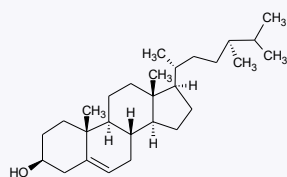
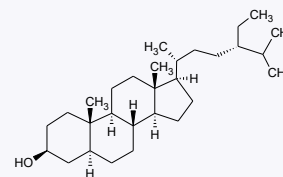
ADVASTEROL 95 IP F-200 is produced in a non-chemical, purely physical process under GMP, Codex Alimentarius conditions from IP certified soy. FSSC 22000 certified. In addition, our raw materials are sourced from certified NON-GMO sources following the guidelines of our IP programs to avoid contamination with GMO materials during storage, transport and production. These principles safeguard the high quality of ADVASTEROL 95 IP F-200.

Additional Ingredient Statements

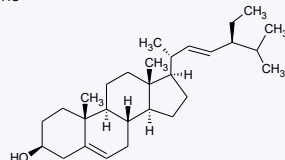
Product is BSE/TSE free, Ethanol free, and Residual Solvent free. It does not require labeling declaration as being potential allergen. It does not contain palm oil and it is not palm oil derived. No animal or animal derivatives are used. It complies with Nagoya protocol.

This product is PCR negative. The product is GMO-free according to certified Identity Preserved Non-GMO Program.

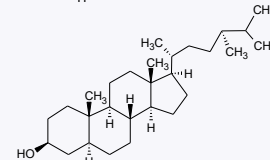
Typical Chemical Composition

 β -Sitosterol (%): 40 - 50 $C_{29}H_{50}O$ MW 415 β -Sitostanol (%): 1 - 3 $C_{29}H_{52}O$ MW 417

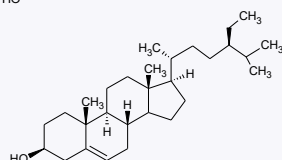
Campesterol (%): 18 - 29

 $C_{28}H_{48}O$ MW 401

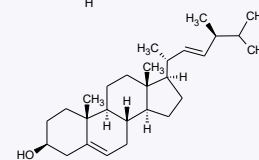
Campestanol (%): 0.2 - 1

 $C_{28}H_{50}O$ MW 403

Stigmasterol (%): 16 - 34

 $C_{29}H_{48}O$ MW 413

Brassicasterol (%): 0.2 - 1

 $C_{28}H_{46}O$ MW 399

Other Sterols (%): 0.9 - 3.0

Solubility

Insoluble in water, oil and fats. Soluble with organic solvents.

Packaging and Storage

Available in 20 kg carton boxes or 400 kg Big Bags.

ADVASTEROL 95 IP F-200 shall be stored in sealed containers, at room temperature and dry conditions, given that the product is sensitive to light, oxygen, high temperatures or alkaline environment. Keep container tightly closed; once opened use content quickly.

If stored appropriately in unopened containers ADVASTEROL 95 IP F-200 has a shelf life of 48 months.

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Regulatory Information

The U.S. FDA has recognized Plant Sterols as safe (GRAS) GRN# 398 Vegetable oil and Tall Oil derived phytosterols and phytosterols ester formulations and are GRAS exempt for the requirement for pre-market approval (21 CFR, Part 170.36) for certain food categories.

Novel food authorization available, EU 2017/2470.

Specifications according to EU regulations: EC 1881/2006, EC 629/2008, EC 835/2011, EC 1259/2011, EC 231/2012, EC 396/2005, EC 2073/2005.

Kosher and Halal certified.

Please ask for our Regulatory statement for further information on the global registration status of the product.

Nutritional Information

Calories (kcal/100g)	2	Sodium (mg/100g)	0.3
Total Carbohydrate (%)	0	Potassium (mg/100g)	0.5
Protein (%)	0	Calcium (mg/100g)	0
Total fat (%)	0.2	Lead (mg/100g)	0
Dietary Fiber (%)	0	Sugars / Added Sugars	0 / 0
Humidity (%)	0.2	Starch	0
Ashes (%)	0	Cholesterol (mg/100g)	0
<u>Fatty Acids</u>		Vitamin A	0
Saturated (%)	0	Vitamin C	0
Monounsaturated (%)	0.1	Vitamin D	0
Polyunsaturated (%)	0.1	Vitamin E (mg/100g)	0
Trans Fat (%)	0	Other, Phytosterols (%)	Min. 95

Overview

- Ingredients: Natural Plant Sterols
- Appearance: Off-white prill with slight characteristic vegetable oil aroma
- Function: Cholesterol reducer
- Assay: Min. 95% active
- Particle Size: >80% through sieve 35; <15% through sieve 70
- Origin: Vegetable; IP Certified Soy
- Use level: 3 gr/ day
- Regulatory Status: Europe, US, Japan, China, Australia, Canada
- Certifications: FSSC 22000, Hard IP, Kosher, Halal
- Shelf life: 48 months

DISCLAIMER

This Product Data Sheet contains information based on our laboratory analysis. Advanced Organic Materials S.A. assumes no responsibility with regards to the suitability of the products for any specific purposes intended by the user. Recommendations for use and application of the product are given for information purposes. These suggestions do not release customers for conducting the necessary tests as suitability of the product is dependent on the characteristics of the intended process. The user of the product is solely re-sponsible for compliance with all laws and regulations applied to the use of the product, including intellectual property rights of third parties.

The information represent typical values, analytical methods are available at customers request.