

Provitas[®] K₁ 10SD

Product Description-

 K_1 10SD is a uniform water-soluble powder, which is cream to light yellow in color with a bland odor and taste. The active ingredient, phytonadione is homogenized with non-GMO gum acacia and glucose syrup and then dried to a uniform powder. Tricalcium phosphate is added for flow. K_1 10SD is intended for the fortification of vitamin K_1 in foods and pharmaceutical preparations.

Item Number: K506

CAS- 84-80-0

Country of Origin-

Provitas® K_1 10SD Manufactured and guaranteed in the USA.

Compendia Requirements-

A specific USP or FCC monograph does not exist for vitamin K_1 preparations. USP grade phytonadione and USP/NF and/or FCC grade excipients are used to manufacture Provitas[®] K_1 10SD.

Harmonized Tariff Schedule Code-2936.29.5050

Solubility- $\mathsf{Provitas}^{\circledast}$ K_1 10SD is soluble in cold water

Stability and Storage-

The shelf life in sealed, original containers under normal storage conditions is 24 months after the date of manufacture. Store in tightly closed containers in cool and dry conditions. Protect from moisture, heat, light, and oxygen. Provitas[®] K_1 10SD decomposes on exposure to light.

GMP-

Provitas LLC confirms that Provitas[®] K_1 10SD is manufactured in a facility that adheres to Good Manufacturing Practices as defined by the U.S.

FDA, CFR Title 117.	. Provitas and the facilit	ty are FDA registered,	and 3 rd party certified.

Non-GMO and Organic compliant statement-

Provitas® K110SD is manufactured by physical and chemical means and is therefore not an organic product.

Provitas[®] K₁ 10SD is organic compliant in accordance with *The Organic Foods Production Act of 1990* as stated in the United States Code of Federal Regulations 7CFR205.605(b) and *Canada Agricultural Products Act, Organic Products Regulations (SOR/2009-176), Part 3.24* and specifically stated in CAN/CGSB-32.311-2006 (6.4):

Provitas[®] K₁ 10SD is free of genetically modified organisms defined as containing no ingredients, additives or processing aides derived from commodities that contain or are derived from genetically modified organisms.

Provitas[®] K₁ 10SD does not contain detectable modified genetic materials, as according to the USDA National Bioengineered Food Disclosure Standard (NBFDS), 7 CFR Part 66. This product does not require disclosure as a BE substance.

Vegetarian/Vegan Statement-

Provitas[®] K₁ 10SD is produced using raw materials derived from plant and synthetic sources. This product is vegetarian and vegan since no animal source product is used in manufacturing.

TESTS	METHODS	SPECIFICATIONS		
Organoleptic				
Description:	Observation	Solid - powder		
Color:		Cream to light yellow		
Odor:		Bland		
Assay:	J. Chrom. A 870			
Vitamin K ₁ (phytonadione)	(2000) 207-15 &	<u>></u> 10 mg/g		
Z Isomer Content ¹	Dionex Tech Note 89	< 2.1 mg/g		
Moisture:				
Karl Fischer Moisture	USP<731>	<u><</u> 5%		
Heavy Metals:				
Arsenic, ppm	AOAC 993.14	<1.0		
Cadmium, ppm	AOAC 993.14	<0.3		
Lead, ppm	AOAC 993.14	<1.0		
Mercury, ppm	DMA	<0.1		
Microbial purity:				
APC, cfu/g	USP <2021>	<u><</u> 1,000		
Coliforms, cfu/g	USP <2021>	<100		
Yeast & Mold, cfu/g	USP <2021>	<100		
E. Coli, cfu/g	USP <2022>	Absent		
Staphylococcus aureus, cfu/g	USP <2022>	Absent		
Salmonella, cfu/g	USP <2022>	Absent		
Particle Size Distribution ² :				
Through Sieve No. 100		> 90%		
Through Sieve No. 170	USP <786>	>75%		
Through Sieve No. 325		< 40%		
Residual Solvents (RS) ³ :		Meets USP		
	USP <467>	Requirements		
1. Specification is not part of release testing but is determined by the use of				
USP grade phytonadione that meets USP specifications.				
2. Specification is tested randomly and not reported on Certificate of Analysis.				

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determined by the use of USP grade vitamin K, that mosts USP (PS)

determined by the use of USP grade vitamin K_1 that meets USP (RS) specifications. Water is the only solvent used in the production of K_1 10SD powder.



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Nutritional Data (per 100g)-

Item	Result	Item	Result
Total Calories	293 Kcal	Sugar - Total	8 gram
Calories from Fat	0 Kcal	Vitamin K ₁ (phytonadione)	1 gram
Calories from Saturated Fat	0 Kcal	Vitamin D	0 Microgram
Kilojoules	1226 KJ	Calcium	215 milligram
Protein	1 gram	Potassium	846 milligram
Fat	0 gram	Iron	0 milligram
Saturated Fat	0 gram	Sodium	430 milligram
Carbohydrate	92 gram	Water	4 gram
Soluble Fiber	34 gram	Ash	2 gram

Accuracy Disclaimer-

Provitas, LLC has taken great care to verify the correctness of these data and believes they are correct. However, since the data comes from various sources and are not verified analytically, we cannot warranty their accuracy. Provitas, LLC can only guarantee the minimum potency of the vitamins and other specifications found on the Provitas[®] K1 10SD Data Sheet, which are available on request. For guaranteed accuracy of composition other than that guaranteed by Provitas, LLC, the customer is advised to submit for analytical testing by a reliable laboratory.

These values have been determined by using a nutritional database of ingredients, which were analyzed singularly. They are believed to be accurate but are not guaranteed.

Residual Solvent Statement-

Provitas LLC certifies that Provitas[®] K₁ 10SD fully complies with Chemical test <467> USP/NF: Residual Solvents Limits. No solvents are used in the manufacturing of Provitas[®] K₁ 10SD.

WADA-

Provitas LLC certifies that Provitas[®] K_1 10SD does not contain nor comes into contact with any substance listed on the World Anti-Doping Agency banned list or other sports related banned lists. These include narcotics, hormones, diuretics, and steroids.

Nanomaterial Statement-

Based on our current understanding of nanomaterial regulation EU No 1169/2011, Provitas[®] K_1 10SD is not considered a nanomaterial. Therefore, it does not require labeling as such.

Contaminants and Impurities Statement-

To our knowledge, there is no contamination by potentially harmful materials in Provitas[®] K_1 10SD. This includes but not limited to heavy metals, pesticides, propylene, PAHs, dioxins, melamine, mycotoxins, and solvents.

Prop 65-

We certify that Provitas[®] K₁ 10SD and all materials used to manufacture Provitas[®] K₁ 10SD do not appear on the List Of Chemicals Known to Cause Cancer Or Reproductive Toxicity, under section 25249.8 of the CALIFORNIA SAFE WATER AND TOXIC ENFORCEMENT ACT OF 1986, Chapter 6.6 added by Proposition 65 in 1986.

BSE/TSE/Irradiation/EtO Statements-

Provitas, LLC guarantees that no BSE/TSE causing ingredients are present in Provitas[®] K₁ 10SD. Provitas[®] K1 10SD is free of any animal origin organisms/ingredients Provitas[®] K₁ 10SD tests PCR negative for any animal-based organisms.

Provitas LLC certifies that Provitas[®] K_1 10SD is free of radiation. Irradiation is not used in the production, packaging and/or storage of Provitas[®] K_1 10SD.

We certify that Provitas[®] K_1 10SD is free of ethylene oxide. Ethylene oxide sterilization is not used in the production, packaging and/or storage of Provitas[®] K_1 10SD.

Sewage-

We certify that Provitas[®] K_1 10SD has been produced, packaged, and stored without the use of sewage sludge.



Provitas[®] K₁ 10SD

Packaging Details-

50 gm Sample K5067100	25 kg carton K5067153 Fiber carton w/plastic liner	
Aluminum pouch		
	25kg net weight	
	26kg gross weight	
100 gram net weight 4" x 6" (10cm x 15cm)	12"x12"x20" (31cm x 31cm x 51cm)	
	27kg gross weight (over pack)	
	22"X14"X14" (56cm x 36cm x 36cm)	
	Quantity Per Pallet	
	1 layer of 9 cartons (225 Kg)	
	Maximum 3 layers / pallet (675 Kg)	

Revision History					
Revision	Modified by	Date of Change	Description of Change	Approved By	
00	-	June 29, 2016	-	-	
01	Emily Baird	February 11 th , 2019	Added Revision table	-	
02	Emily Baird	July 23 rd , 2020	Updated to 2020 Product sheet template	-	
03	Emily Moran	April 27, 2022	Updated GMO statement and added BE statement	EM	