

## Product Data



### Provitas® K<sub>2</sub> 2000 MCC

#### Product Description-

Provitas® K<sub>2</sub> 2000 MCC is a uniform free-flowing, powder which is light yellow in color with a bland odor and taste. The active ingredient, all-trans-menaquinone-7 is of USP grade and produced by suitable physical and chemical means. The active ingredient, menaquinone-7, is plated onto a microcrystalline cellulose (MCC) carrier.

TEST	METHODS	SPECIFICATIONS
Description:	Observation	Solid - powder
Color:	Observation	Light yellow
Odor:	Observation	Bland
Identification: <sup>1</sup> Chromatography (A) Assay (B)	USP Monograph USP Monograph	Corresponds to Standard Solution 90.0% - 120.0%
Assay: Menaquinone-7 (ppm) %	USP	≥ 2000 ≥ 0.2%
Heavy Metals: Arsenic, ppm Cadmium, ppm Lead, ppm Mercury, ppm	JAOAC 2016 99(3) JAOAC 2016 99(3) JAOAC 2016 99(3) JAOAC 2016 99(3)	<2.0 <1.0 <1.0 <0.1
Microbial purity: APC, cfu/g Coliforms, cfu/g Yeast and mold, cfu/g E. Coli, cfu/g Staphylococcus aureus, cfu/g Salmonella sp., cfu/g	USP<61> USP<61> USP<62> USP<62> USP<62> USP<62>	≤1,000 ≤100 ≤100 Negative Negative Negative
Loss on Drying: %	USP<731>	≤ 5.0

1. Specification is informational and not part of release testing but is based on lot specific analysis provided for menaquinone-7 used in the production of K<sub>2</sub> 2000 MCC

#### Uses-

K<sub>2</sub> 2000 MCC is intended for use as vitamin K<sub>2</sub> in dietary supplements and fortified foods.

**Solubility-**

K<sub>2</sub> 2000 MCC is insoluble in water

**Stability-**

The shelf life in sealed, original containers under normal storage conditions is 24 months after the date of manufacture.

**Storage-**

Store in tightly closed containers in a cool and dry place. Menaquinone-7 is sensitive to light. Protect from light, heat and oxygen.

**Packaging-**

<b>PRODUCT CODE PACKAGE /</b>	<b>PACKAGING DETAILS</b>	<b>OPTIMUM ORDER QUANTITIES</b>
<b>K5151300 100gm Sample</b>	Aluminum pouch 50 gram net weight 4" x 6" (10cm x 15cm)	each / 50g
<b>K5151341 10kg carton</b>	Aluminum bag in fiber carton 10kg net weight 12kg gross weight 11"x15"x10" (28cm x 38cm x 25cm)	10kg

Revision History				
Revision	Modified by	Previous Date	Date of Change	Description of Change
01	Emily Baird	----	October 9, 2019	Created form
02	Emily Baird	October 9, 2019	October 11 <sup>th</sup> , 2019	Updated Specification