



Product specification - K2VITAL® 0.2% DELTA Powder

Document responsible: 29.04.2025/MSU

USP compliant to MK-7 preparation monograph

Product number 300005-03 (for 1 kg bags)

> 300006-03 (for 5 kg bags) 300007-03 (for 25 kg bags)

Product description Microencapsulated vitamin K2 all-trans MK-7

Production site BASE AS Country Denmark

> Malmparken 5 of origin

2750 Ballerup, Denmark

Shelf-life 36 months from the date of manufacture in unopened original bags

Room temperature, protected from light, excessive heat and moisture in Storage

unopened original bags

Packaging 1 kg or 5 kg or 25 kg aluminium foil MK-7 CAS No. 2124-57-4

bags

Test	Specification	Method	
Appearance	White to light yellow fine powder	Visual	
Identification	To match MK-7 reference standard profile	Based on HPLC/USP MK-7 Preparation monograph	
Through Mesh 20 USP (%)	-		
Through Mesh 40 USP (%)	>85 %	Sieving	
Through Mesh 100 USP (%)	<20 %	Sieving	
Loss on drying	≤5 %	Gravimetric	
Total all- <i>trans</i> vitamin K2 MK-7	≥0.200 % or ≥2000 ppm	Based on HPLC/USP MK-7 Preparation monograph	
Cis isomer content	≤2% (area)	Based on HPLC/USP MK-7 Preparation monograph	
MK-6 content	\leq 10% (of the labelled amount (ppm) of MK-7)	Based on HPLC/USP MK-7 Preparation monograph	
Lead (Pb)*	≤0.5 µg/g	ICP-MS/ICP-OES	
Cadmium (Cd)*	≤0.2 µg/g	ICP-MS/ICP-OES	











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Test	Specification	Method	
lercury (Hg)*	≤0.05 µg/g	ICP-MS/ICP-OES	
Arsenic (As)*	≤0.5 µg/g	ICP-MS/ICP-OES	
Total aerobic microbial count (TAMC)	<10 ³ cfu/g	USP/Ph.Eur.	
Total yeasts and mould (TYMC)	<10 ² cfu/g	USP/Ph.Eur. USP/ Ph. Eur.	
E. coli	Absent in 10 g		
Staphylococcus aureus	Absent in 10 g	USP/ Ph. Eur.	
Salmonella sp.	Absent in 25 g	ISO6579 USP/Ph.Eur.	
Pseudomonas aeruginosa	Absent in 10 g		
Enterobacteria	cteria ≤100 cfu/g Petrifilm		
Residual solvents**	<0.5%	Headspace GC-FID/ Ph.Eur.	
Sum 2CE/EtO*	Expressed as ethylene oxide <0.010 mg/kg	(GC-MS/MS)	

^{*} Confirmation based on random sampling

Additional note

The test methods may vary from the USP monograph methods.

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Change log

Version	Description of changes	Date/ initials
11	EB specification revised to harmonize spec across Balchem portfolio	24.04.2025/MSU
	(MOC-REQ-827)	



^{**} Based on testing of active ingredient MK-7. No solvents are used in the production of K2VITAL® 0.2% DELTA Powder product