

PRODUCT SPECIFICATION



K2VITAL® 1% DELTA Powder

Document ID	SPEC-DEL-258
Version No.:04	Validity: 3 years
Verified:01.07.2020/AKB	Approved:01.07.2020/TKH

Product Number: KB 2-100-01 (for 1 Kg bags); KB 2-100-05 (for 5 Kg bags)

Product Description: Microencapsulated vitamin K2 all-trans MK-7

Shelf-Life: 48 months from the date of manufacture in unopened original bags

Storage: Room temperature, protected from light, excessive heat and moisture in unopened original bags

MK-7 CAS No.: 2124-57-4

Packaging: 1 Kg or 5 Kg

Country of Origin: Denmark

Production Site: BASF A/S

Test	Specification	Method
Appearance	White to light yellow fine powder	Visual
Through Mesh 20 USP (%)	>99.5 %	Sieving
Through Mesh 40 USP (%)	>85 %	Sieving
Through Mesh 100 USP (%)	<20 %	Sieving
Loss on Drying	≤5 %	Gravimetric
Total all-trans K2 MK-7	≥1.00 % or ≥10,000 ppm	HPLC
Lead (Pb)	Max. 0.5 mg/kg	ICP-MS or ICP-OES
Cadmium (Cd)	Max. 0.5 mg/kg	ICP-MS or ICP-OES
Mercury (Hg)	Max. 0.1 mg/kg	ICP-MS or ICP-OES
Arsenic (As)	Max. 0.5 mg/kg	ICP-MS or ICP-OES
Total aerobic microbial count (TAMC)	Max. 1000 cfu/g	Ph.Eur./USP
Total yeasts and mould (TYMC)	Max. 100 cfu/g	Ph.Eur./USP
<i>E. coli</i>	Absent in 10 g	Ph.Eur./USP
<i>Staphylococcus aureus</i>	Absent in 10 g	Ph.Eur./USP
<i>Salmonella sp.</i>	Absent in 25 g	ISO 6579
<i>Pseudomonas aeruginosa</i>	Absent in 10 g	Ph.Eur./USP
<i>Enterobacteria</i>	Absent in 1 g	ISO 21528

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Version	Change	Date/Initials
02	Use of Change log and TMP-03-statement started in the document; Revised heavy metal specification in accordance with US requirement – MOC-REQ-727	07.11.2018/TKH
03	Deleted “total heavy metals” parameter Added “1% and Powder” in the heading	28.01.2019/MSU
04	Revised shelf-life from 36 months to 48 months based on stability data KB_STAB_028	18.06.2020/MSU