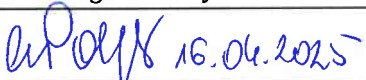
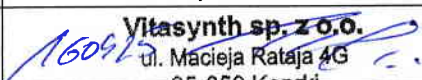




Pharmaquinone

Product name:	Pharmaquinone® 1% MCT Oil, Vitamin K2 as MK-7		
SKU code:	100L		
Active Ingredient:	Menaquinone-7 (MK-7)		
Carrier:	100% Organic Coconut Oil (MCT)		
CAS number:	Menaquinone-7	2124-57-4	
	MCT oil	73398-61-5	
General information:	Synthetic Vitamin K2 as all-trans MK-7 diluted in medium chain triglyceride (MCT) oil from coconuts for use in food and dietary supplements.		
Country of origin:	Poland		
Shelf-life	36 months from manufacture		
Storage conditions:	The product should be stored at temperature 15-25 °C/59-77 °F, in a dry place. Protect from light.		
	After opening, store in the original closed container.		
Packaging:	1 kg (100L1) or 5 kg (100L5) of the product in aluminum bottle		

	Prepared by	Approved by
Position:	QA/QC Director	Production Director
Name:	Agata Pundyk	Andrzej Krukowski
Signature & Date:	 16.04.2025	 Vitasynth sp. z o.o. ul. Macieja Rataja 4G 05-850 Kopki



Product Specification: Pharmaquinone 1% MCT Oil

Ref. no. SPK/KJ/003

Rev. 07

Date: 16.04.2025

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TESTS	REQUIREMENTS	METHOD
Description	Light yellow to yellow oil	Visual assessment
Identification		
HPLC	Corresponds to the standard HPLC profile	UPLC method*/USP method** ANL/KJ/009
Vitamin K2 (as all-trans MK7) assay	> 1.0 % or > 10 000 ppm	UPLC method*/USP method** ANL/KJ/009
Limit of Menaquinone-6	Absent	UPLC method*/USP method** ANL/KJ/009
Related substances		
Single unknown impurity	≤ 1.0 %	UPLC method* ANL/KJ/009
Total impurities	≤ 1.5 %	
Isomeric purity		
Content of cis-menaquinone-7	≤ 1.0 %	USP method** ANL/KJ/009
Density (in 20°C)	0.930-0.960 g/ml	PN-EN ISO 6883:2017-03
Metal content		
Arsenic	≤ 0.5 ppm	
Cadmium	≤ 0.3 ppm	PN-EN 15763:2010
Lead	≤ 0.5 ppm	
Mercury	≤ 0.1 ppm	
Microbiological parameters		
TAMC in 1g	≤ 1 x 10 ³ CFU	Ph. Eur. <2.6.12>/USP <2021>
TYMC in 1g	≤ 1 x 10 ² CFU	Ph. Eur. <2.6.12>/USP<2021>
E. Coli in 1g	Absent	Ph. Eur. <2.6.13>/USP <2022>
Salmonella in 25 g	Absent	Ph. Eur. <2.6.13>/USP <2022>
Staphylococcus aureus in 1g	Absent	Ph. Eur. <2.6.13>/USP <2022>
Bile tolerant gram-negative bacteria in 1g ***	≤ 1 x 10 ² CFU	Ph. Eur. <2.6.13>/USP <2021>

* in-house method

** in accordance with Dietary Supplement Monographs, Menaquinone-7 Preparation, USP-NF

*** bile tolerant gram-negative bacteria include *Enterobacteriaceae*, *Pseudomonas* and *Aeromonas*

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