

VITAMINA K1 (ALL-RAC-FITOMENADIONA) (EUR. PH.)						
PRODUCT CODE: 1910		CAS Nº: 81818-5	4-4 AN	ALYSIS Nº: 004/25		
MANUFACTURER BATCH:	V241101		CERTIFICATE ID:	44.648		
SUPPLIER BATCH:			MANUFACTURING DATE:	28/11/2024		
МЕТАРН ВАТСН:	0040125		EXPIRY DATE:	27/11/2026		

ATTRIBUTES	SHOULD BE	IS
Appearance	Clear, intense yellow, viscous, oily liquid	Clear, intense yellow, viscous, oily liquid (*)
Refractive index	About 1.526	1.526
Identification A	Complies	Complies (*)
Identification B	Complies	Complies (*)
Identification C	Complies	Complies (*)
Appearance of solution	Clear	Complies
Optical rotation	+0.05° / +0.05°	+0° (*)
Acidity index	=< 2.0	1.2
Impurity A	=< 0.2 %	Complies
Related substances		
Impurity B	=< 0.2 %	0.05 %
Unspecified impurities	=< 0.15 %	0.14 %
Total impurities	=< 1.0 %	0.6 %
Sulfated ash	=< 0.1 %	0.02 %
Assay		(*)
trans-phytomenadione isomers	=> 85.0 %	89.3 %
um of trans-phytomenadione	97.0 - 103.0 %	98.7 %
and cis-phytomenadione isomers		

COMPLIES WITH

European Pharmacopoeia 11.0

REMARKS

Phytomenadione (Vitamin K1) is subjected to the requirements of the ICH Q3D "Elemental Impurities" guideline and the requirements of guides EMA/CHMP/ICH/82260/2006.

(*) Data controlled by Metapharmaceutical Industrial SL.

The product is not of animal origin and no animal product is used in its production, so it is risk-free BSE/TSE.

The product is not derived from GMO. No genetically modified organism is used in its production and no GMO product comes in contact with the product during any stage of production.

STORAGE

Reserve in a tightly closed containers. Protect from light, moisture and heat sources.

Analysis date: 12/02/2025 Manufacturer: 40000935

Signature: Albert Sanchez Lopez (QP)

Conclusion: Complies

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