

Certificate of Analysis

Inspection Certificate 3.1 according to EN 10204

Vitamin A-Palmitate Care (1.0 Tocopherol) 5KG Plastic jerricans Purchase order/Customer material 4981639276 00000000050131647	Material Order Delivery Lot Lot/Qty Total Transport	50131647 3019569929 000170 3197481416 000010 19013688Q0 60.000 KG 60.000 KG TEMU9509400
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Manufacturing Location: Ludwigshafen, Germany

Test Parameter	Requirements	UoM	Results
Appearance Visual	yellow viscous oil, partly crystalline when cooled		conforms
Identification Vit.A-Palm. (TLC) PM/00334	must conform		conforms
Assay Vitamin A (photometr.) Ph.Eur.	Min.: 1.00 Max.: 1.10	Mio.I.U./g	1.06
Peroxide value Ph.Eur.	Max.: 10	meq/kg	3
Acid Value Ph.Eur.	Max.: 2.0	mg KOH/g	0.3
Retinol PM01096	Max.: 1.0	g/100g	<1.0
Related substances: Absorbance Ratio A 300/ A 326nm Ph.Eur.	Max.: 0.60		0.58

Essentially Natural

Products with purpose.

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Test Parameter	Requirements	UoM	Results
Related substances: Absorbance Ratio A 350/ A 326 nm Ph.Eur.	Max.: 0.54		0.53
Related substances: Absorbance Ratio A 370/ A 326nm Ph.Eur.	Max.: 0.14		0.13
Heavy metals * PM/01676	must conform (max.10mg/kg)		conforms
Nickel* PM/01676	must conform (max.2mg/kg)		conforms
Residual solvent * methanol PM/00558	must conform (max.3000mg/kg)		conforms
Residual solvents * (heptane, methyl acetat and isopropanol) PM/00558	must conform (max.5000mg/kg)		conforms

* test is verified on random samples

The product is stabilized by tocopherol.

The product meets the specifications of following monographs:

"Vitamin A Concentrate (Oily Form), synthetic" of European Pharmacopoeia
10.3th Edition

"Vitamin A" of USP-NF 2022, Issue 1

QC-Reference-No.	22C12997
Production date	(YYYY-MM-DD) 2022-10-12
Release date	(YYYY-MM-DD) 2022-11-03
Best before/Retest date	(YYYY-MM-DD) 2025-10-11

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