

Certificate of Analysis

DISTRIBUIDO POR
METAPHARMACEUTICAL
INDUSTRIAL SLU

01 SEP 2025

Product Name: Castor Oil, Ethoxylated

Product Number: 30906

Batch Number: BCCM1629

CAS Number: 61791-12-6

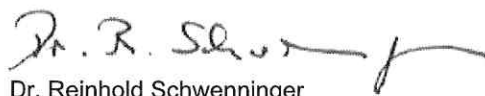
Formula:

Formula Weight:

Quality Release Date: 27 AUG 2024

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	WHITE TO YELLOWISH	CONFORMS
APPEARANCE (FORM)	PASTE	PASTE
REMARKS ON GC	FREE FATTY ACIDS ≤ 1.0 %	FREE FATTY ACIDS ≤ 1.0 %
	OLEIC ACID ≤ 0.1 %	OLEIC ACID ≤ 0.1 %
	PALMITIC ACID ≤ 0.1 %	PALMITIC ACID ≤ 0.1 %
	RICINOLEIC ACID ≤ 0.20 %	RICINOLEIC ACID ≤ 0.20 %
	FATTY ACIDS $> C_{12} \leq 1.0$ %	FATTY ACIDS $> C_{12} \leq 1.0$ %
THIN LAYER CHROMATOGR.	CONFORMS PH. EUR.	CONFORMS
SOLUBILITY	NOT MORE OPALESCENT THAN REF. SUSP. III AND NOT MORE COLORED THAN REF. SOL. BY6 (PH. EUR. (INSTRUMENTAL MEASUREMENT, COLORIMETER & TURBIDITY)	CONFORMS
PH-TEST	5.0 - 7.0	5.4
PH (METHOD)	10 G/100 ML IN WATER	10 G/100 ML IN WATER
WATER	≤ 0.5 %	0.3 %
RESIDUE ON IGNITION	≤ 0.20 %	CORRESPONDS
SULFATED ASH	≤ 0.2 % (VERIFIED ON RANDOM SAMPLES ONLY)	< 0.1 %
INFRARED SPECTRUM	CONFORMS TO STRUCTURE	CORRESPONDS
VISCOSITY	600 - 750 MPAS (25 DEG C) (USP-NF)	647 MPAS
RELATIVE DENSITY	1.05 - 1.06 [D (25/25)]	1.05
ALKALINITY	CONFORMS	CORRESPONDS
DIOXAN	≤ 10 PPM (VERIFIED ON RANDOM SAMPLES ONLY)	CORRESPONDS
ETHYLENE OXIDE	≤ 1 PPM (VERIFIED ON RANDOM SAMPLES ONLY)	CORRESPONDS
HEAVY METALS	(VERIFIED ON RANDOM SAMPLES ONLY) PH.EUR., 2.4.8 METH.A	CORRESPONDS
POTASSIUM	PASS	< 15 PPM

Miscellaneous Assay	DIETHYLENE GLYCOL \leq 620	< 100 PPM
	MG/KG (PPM) (VERIFIED ON RANDOM SAMPLES ONLY) SUM OF ETHYLENE GLYCOL AND DIETHYLENE GLYCOL = 2500 MG/KG	
IODINE VALUE	25 - 35 G I/100G	32
ACID VALUE	(PH. EUR. EQUIVALENT TO USP-NF)	0.4
HYDROXYL VALUE	65 - 78 MG KOH/G	73
SAPONIFICATION VALUE	65 - 70 MG KOH/G	68
RESIDUAL SOLVENTS (GLC-HS)	ETHYLENE GLYCOL \leq 620 MG/KG (PPM) CORRESPONDS ACETIC ACID \leq 0.5 G/100G (%) (VERIFIED ON RANDOM SAMPLES ONLY)	
ENDOTOXINS	PH. EUR., 2.6.14 METH. A (GEL- -CLOT)	< 3


 Dr. Reinhold Schwenninger
 Quality Assurance
 Buchs, Switzerland



Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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