



Certificate of Analysis

Productname: Ricini oleum virginale

Inspection No: J09460/1222/536

Batchnumber: 22I29-T07-099547

Expiration date: 30.09.2024

Analysed according to: ČL 2017-Dopl.2021, Ph.Eur.10.5

Original Manuf. Date: 30.6.2022

Sample Unit: 1 x 10 ml

Batch Size: 20 x 100 ml

Identification of producer: V00225

Batch no. of vendor: 161090

	Requirement	Result	Unit	Standard remark	Insp. Site
CHARACTERS					
Appearance	Clear at 40°C, slightly yellow, viscous, hygroscopic liquid.	Conform			Contract Lab
Solubility	Conform	Conform			Contract Lab
Relative density	about 0,958	0,962			Contract Lab
Refractive index	about 1,479	1,479			Contract Lab
IDENTIFICATION					
Identification B	<=0,7	0,3		Specific absorbance, 270 nm	Contract Lab
Identification C	Conform	Conform		Composition of fatty acids, GC	Contract Lab
TESTS					
Optical rotation	+3,5 - +6,0	4,3	°		Contract Lab
Specific absorbance	<=0,7	0,3		270 nm	Contract Lab
Acid value	<=1,5	0,5			Contract Lab
Hydroxyl value	>=160	161			Contract Lab
Peroxide value	<=10,0	2,7			Contract Lab
Unsaponifiable matter	<=0,8	0,5	%		Contract Lab
Composition of fatty acids	Conform	Conform		GC	Contract Lab
palmitic acid	<=2,0	1,0	%		Contract Lab
stearic acid	<=2,5	1,3	%		Contract Lab
Oleic acid and isomer	2,5 - 6,0	3,5	%		Contract Lab
linoleic acid	2,5 - 7,0	4,5	%		Contract Lab
linolenic acid	<=1,0	0,4	%		Contract Lab
eicosenoic acid	<=1,0	0,3	%		Contract Lab
ricinoleic acid	85,0 - 92,0	90,8	%		Contract Lab
any other fatty acid	<=1,0	<0,05	%		Contract Lab
Watter micro-determination	<=0,3	0,162	%		Contract Lab
Microbiology	Conform	Conform			Contract Lab
TAMC	<=2 x 103	<10	CFU/g		Contract Lab
TYMC	<=2 x 102	<10	CFU/g		Contract Lab
TSE/BSE	No contamination with TSE/BSE-risk materials.	Conform			Data Producer
Residual solvents	ICH Q3C	Conform			Data Producer
Metallic residues	ICH Q3D	Conform			Data Producer

Quality: Excipient

Name	Fagron a.s. (CZ)	Address	Holická 1098/31m, Olomouc	Phone No.	+420585222590
	Kontrolní laboratoř č. 536	Post Code	779 00	Fax No.	+420 585 226 521

Performed by: Ekocentrum

Responsible: Ing. Pavel Mišák, QC
MVDr. Zdenka Borská, QP

Date: 23.11.2022

Conclusion: **APPROVED**

This document has been produced electronically from our quality system and is valid without signature.