



Certificate of Analysis

Productname: Polysorbatum 80

Inspection No: J09992/0223/536

Batchnumber: 22C07-T01-101027

Expiration date: 30.11.2023

Analysed according to: ČL 2017-Dopl.2020, Ph.Eur.10.0

Original Manuf. Date: 18.11.2021

Sample Unit: 1 x 10 ml

Batch Size: 98 x 250 ml

Identification of producer: V01687

Batch no. of vendor: 1/2531129

	Requirement	Result	Unit	Standard remark	Insp. Site
CHARACTERS					
Appearance	Oily, colourless or brownish-yellow, clear. or slightly opalescent liquid.	Conform			Contract Lab
Solubility	Conform	Conform			Contract Lab
Relative density	About 1,10	1,08			Contract Lab
Viscosity	About 400	483	mPa.s	25 °C	Contract Lab
IDENTIFICATION					
Identification A	Conform	Conform		IR-spectrum	Contract Lab
Identification D	Conform	Conform		Composition of fatty acids	Contract Lab
TESTS					
Acid value	<=2,0	0,3			Contract Lab
Hydroxyl value	65 - 80	75			Contract Lab
Peroxide value	<=10,0	0,8			Contract Lab
Saponification value	45 - 55	47			Contract Lab
Composition of fatty acids	Conform	Conform		GC	Contract Lab
Myristic acid	<=5,0	0,1	%		Contract Lab
Palmitic acid	<=16,0	16,0	%		Contract Lab
Palmitoleic acid	<=8,0	0,9	%		Contract Lab
Stearic acid	<=6,0	3,8	%		Contract Lab
Oleic acid	>=58,0	75,7	%		Contract Lab
Linoleic acid	<=18,0	<0,1	%		Contract Lab
Linolenic acid	<=4,0	<0,1	%		Contract Lab
Ethylene oxide	<=1	<0,3	ppm	GC	Contract Lab
Dioxane	<=10	<3,5	ppm	GC	Contract Lab
Water	<=3,0	2,5	%	Karl Fischer	Contract Lab
Total ash	<=0,25	0,05	%		Contract Lab
Microbiology	Conform	Conform			Contract Lab
TAMC	<=2 x 10 ³	<10	CFU/g		Contract Lab
TYMC	<=2 x 10 ²	<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

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	Kontrolní laboratoř č. 536	Post Code	779 00	Fax No.	+420 585 226 521

Performed by: Ekocentrum

Responsible: Mgr. Zdeňka Šinclová, 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.