

Certificate of Analysis

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The Netherlands

Sample: Pharma glycerine, vegetable
 min. 99.7 % (OU)-Kosher Non-GMO
 Eines: 200-289-5 CAS: 56-81-5
 Taken from: 07F18C
 Batch dated: 24-05-2019
 Batch number: 201921507F18C
 Remarks: -

Analysis	Unit	min	max	Result	Method of analysis
Appearance		Colourless		Colourless	European Pharmacopoeia
Appearance of solution		Clear		pass	European Pharmacopoeia
Smell		Absent		absent	European Pharmacopoeia
Esters	ml 0.1 m HCl-solution	8,0		9,09	European Pharmacopoeia
Color (APHA)	Hazen		10	3	ISO 6271
Water	% (m/m)		0,3	0,029	European Pharmacopoeia
Refractive index @ 20°C		1,471	1,474	1,474	European Pharmacopoeia
Density @ 20°C	g/cm ³	1,260		1,260	European Pharmacopoeia
Acidity	ml 0.1 m NaOH-solution		0,2	0,04	European Pharmacopoeia
Aldehydes	mg/kg		10	Meets spec	European Pharmacopoeia
Halogenated compounds	mg/kg		30	Meets spec	European Pharmacopoeia
Chlorides	mg/kg		10	Meets spec	European Pharmacopoeia
Sugars		Negative		negative	European Pharmacopoeia
Acroleine, Glucose, Ammoniumcompounds		Negative		negative	REG(EU) 231/2012 no E422
Assay	%(m/m)	99,7		99,7	European Pharmacopoeia
<i>Compliance with the items listed below is assured through regular monitoring analyses performed at an external lab.</i>					
Identity A, B, C, D				pass	European Pharmacopoeia
Arsenic	mg/kg		max 0,1		DIN EN 15763
Mercury	mg/kg		max 0,1		SOP M2567
Cadmium	mg/kg		max 1		DIN EN 15763
Lead	mg/kg		max 0,1		DIN EN 15763
Nickel	mg/kg		max 20		DIN EN 15763
Sodium	%(m/m)		max 0,1		DIN EN 15510
Potassium	%(m/m)		max 0,1		DIN EN 15510
Sulfates	mg/kg		max 20		US Pharmacopoeia
Sulphated ash	%(m/m)		max 0,01		European Pharmacopoeia
Impurity A (DEG)	%(m/m)		max 0,1		European Pharmacopoeia
Any other impurity retention time less Glyc	%(m/m)		max 0,1		European Pharmacopoeia
Total of all impurities retention time greater Glyc	%(m/m)		max 0,5		European Pharmacopoeia
Butanetriols	%(m/m)		max 0,2		GC/MS
Acroleine			Confirms		REG(EU) 231/2012 no E422
Fatty acids and esters	%		max 0,1		Calculated as butyric acid
3-MCPD	mg/kg		max 0,1		GC/MS

This product complies with the requirements of the current version of the European Pharmacopoeia, USP, the EU Regulation 231/2012 for food additives (Glycerol (E422)), the EU feed legislation 609/2013 (feed materials No 13.8.2) and the Codex Alimentarius.

Neither illegal food dyes nor other additives are added. Contaminants like dioxins, mycotoxines, PAH, PCB, pesticides meet the criteria.

We declare to the best of our knowledge the product is not subject to mandatory labelling, with observation of all legal and customary duties of

The shelf life of BIOPETROL glycerine is 24 months EXW (date at Weight Certificate decisive) when stored and handled under appropriate

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