

Certificate of Analysis No. G 331

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Analysis required by : HeW Pharma BV, Vaartkaai 52F, 2170 Merksem, Belgium

Sample delivery date: 1/30/2025

Analysis finalization date: 2/17/2025

Purchase Order: **28.1.2025**
Sample description: **Sample 005: Glycerine 4810K**
Batch No.: **240917-BO021164**
Specification: **Ph. Eur. 11.0**

Results:

Test	Limit	Found	Unit	Method
Appearance	Clear, colourless or almost colourless, very hygroscopic, syrupy liquid, unctuous to the touch. Miscible with water and with ethanol (96 per cent), slightly soluble in acetone, practically insoluble in fatty oils and in essential oils.	complies		Visually
Identification A	complies	complies		Ph. Eur. 2.2.6
Identification B	complies	complies		Ph. Eur. 2.2.24
Appearance of solution	Clear and colourless	complies		Ph. Eur. 2.2.1 a 2.2.2
Acidity or Alkalinity	max. 0,2	<0,1	ml NaOH 0,1M	Ph. Eur.
Refractive index	1,470 - 1,475	1,471		Ph. Eur. 2.2.6
Aldehydes	max. 10	<10	µg/g	Ph. Eur. 2.2.25
Esters	min.8,0	9,2	ml HCl 0,1M	Ph. Eur.
Impurity A and related substances	complies	complies		Ph. Eur. 2.2.28
Impurity A	max. 0,1	<0,05	%	Ph. Eur. 2.2.28
Any other impurity with a RT less than the RT of glycerol	max. 0,1	<0,05	%	Ph. Eur. 2.2.28
Total of all impurities with RT greater than the RT of glycerol	max. 0,5	<0,05	%	Ph. Eur. 2.2.28
Halogenated compounds	max. 35	<35	µg/g	Ph. Eur.
Sugars	complies	complies		Ph. Eur.
Chlorides	max. 10	<10	µg/g	Ph. Eur. 2.4.4
Water	max. 2,0	0,2	%	Ph. Eur. 2.5.12
Sulphated Ash	max. 0,01	<0,01	%	Ph. Eur. 2.4.14
Content (anhydrous substance)	98,0 - 101,0	100,1	%	Ph. Eur.

Responsible persons : Muchová Veronika, Pavelková Hana, Žemli ková Pavlína
Edited by: Holo ová Aneta

CONCLUSION : The sample complies with the specifications of the performed analysis.

Ostrava, 2/20/2025

Head of the laboratory: Ing. Ji í Pavelka

Distribution list:

1x HeW Pharma BV

1x Laboratory EKOCENTRUM OVALAB, s.r.o.