

Certificate of Analysis

Hazelnut CO₂-se extract, alcohol soluble (organic), type no. 047.005

DE-ÖKO-013

batch no. 962101, lab no. 41565

production: May 2026

retest: May 2031

raw material:

Corylus avellana - Nuts, dried (from organic farming)

country of origin of raw material: Azerbaijan, Ethanol: EU

country of origin of product: Germany

D/E - ratio: 7,7 - 8,3 kg raw material yield 1 kg product.

Product contains: about 93 % Ethanol (ökol), about 4 % Water, about 3 % Hazelnut CO₂-se extract (organic)

Sensory Check

feature	reference	result
Appearance:	light yellow to colourless, clear liquid	meets
Odour:	aromatic hazelnut flavour	meets

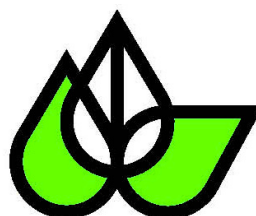
Analytical Check

feature	method	limits	value	unit
Not volatile ingredients	2h, 120°C, oven	n.s.	4,3	%
Content of alcohol (ethanol)	DMA, Oscillating U-tube principle	92 - 98	95,0	Vol %
GCMS fingerprint	GCMS, 100 % Method	Standard	meets	
Refractive index (20°C)	21.271.01, Digital Refractometer	1,3640 - 1,3700	1,3669	
Density (20°C)	DMA, Oscillating U-tube principle	0,800 - 0,812	0,8114	g/cm ³
Aflatoxine B1	21.193.03, HPLC	EC No. 2023/915	meets	ppb
Total Aflatoxines B1,B2,G1,G2	21.193.03, HPLC	EC No. 2023/915	meets	ppb
Hazelnut protein	external analysis	< detection limit (2,5)	Monitoring*	ppm
		n.s. = not specified	n.d. = not detected	

composition of the volatile compounds:

ethanol, aldehydes (Decanal, 2-Nonenal, 2,4 Decadienal, 2-Undecanal), fatty acids

*The extract is produced from hazelnuts. But there is no allergen risk, since proteins are insoluble in CO₂. ELISA Tests performed by accredited laboratories confirm that no allergenic proteins are present in the extract.



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The product meets the current version of the analytical (047.005_02_AS) and of the general (047.005_04_S) specification.

date of analysis: 2026.05.12

This computerized CoA has digital signature validated by FLAVEX QC.


Anja Cawellius
Quality control
2026.05.12
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The data in this report of analysis have been determined carefully and to the best of our knowledge. Depending on transport and storage conditions the indicated data can be subject to certain changes which are outside of our influence. Hence the report has not the meaning of a guaranty in the legal sense and does not dispense the customer from making his own quality control before using the product. For further product-relevant substances, see IFRA list and cosmetic allergen list.