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Certificate of Analysis: Nutmeg CO₂, *Myristica fragrans*, seeds from Germany, extracted in Germany.

Batch No: GE-451422

Lab No: 19821

Type No: 001.012

Production: December 2015 Retest: December 2020

D/E Ratio: 11 - 13 kg raw material yield 1 kg product.

Sensory Check

feature	reference	result
Appearance:	Yellow to orange-red, clear liquid	meets

Analytical Check

feature	method	limits	value/unit
Content of essential oil	21.006.01, Distillation, gravimetric	70 - 80	77,9 % (g/ 100g)
Composition of the volatile compounds:	GCMS, 100 % Method		
alpha Pinene	GCMS, macenutmeg.met	n.s.	15,9 %
Sabinene	GCMS, macenutmeg.met	n.s.	26,7 %
beta Pinene	GCMS, macenutmeg.met	n.s.	11,9 %
Myrcene	GCMS, macenutmeg.met	n.s.	2,3 %
delta 3-Carene	GCMS, macenutmeg.met	n.s.	0,70 %
Linalool	GCMS, macenutmeg.met	n.s.	0,13 %
Limonene	GCMS, macenutmeg.met	n.s.	2,7 %
HPLC, quantitative analysis:			
Eugenol	21.040.01, HPLC	< 1	0,45 %
Elemicine	21.040.01, HPLC	< 5	0,78 %
Methyl Eugenol	21.040.01, HPLC	< 1	0,75 %
Myristicine	21.040.01, HPLC	5 - 20	20,0 %
Safrole	21.040.01, HPLC	1 - 3	1,9 %
Aflatoxins	21.193.02, HPLC	EC No. 1881/2006, EC No. 165/2010	meets (0,63) ppb
Ochratoxin A	21.197.01, HPLC	EC No. 1881/2006, EC No. 594/2012	meets (0,02) ppb
Refractive index (20°C)	Abbe-Refractometer	1,4850 - 1,4930	1,4915
Density (20°C)	21.024.02, Pycnometer	0,910 - 0,940	0,9373 g/cm ³

n.s. = not specified n.d. = not detected