



Certificate of Analysis

Allspice Berries CO2-to extract (organic)

Jamaica-Type

Batch #GE-58828

production: August 2012 Retest: February 2017 Expiration date: August 2020
lab no. 22392
raw material: *Pimenta officinalis* - Berries, dried, from organic farming
country of origin of rawmaterial: Guatemala
country of origin of product: Germany
D/E - ratio: 22 - 25 kg raw material yield 1 kg product.

Sensory Check

feature	reference	result
Appearance:	Dark brown liquid	meets
Odor:	balmy-spicy and peppery flavor	meets

Analytical Check

feature	method	limits	value unit
Content of essential oil	21.006.01, Distillation, gravimetric	25 - 35	29,1 % (g/ 100g)
Volatile components (quantitative in extract):			
beta Myrcene	21.161.01, GC	n.s.	1.7 %
Cymene	21.161.01, GC	n.s.	n.d. %
Limonene	21.161.01, GC	n.s.	0.05 %
1,8 Cineol	21.161.01, GC	n.s.	0.16 %
Ocimene	21.161.01, GC	n.s.	0.15 %
Linalool	21.161.01, GC	n.s.	0.07 %
Eugenol	21.161.01, GC	20 - 40	27.3 %
Methyleugenol	21.161.01, GC	n.s.	0.26 %
beta Caryophyllene	21.161.01, GC	n.s.	2.3 %
Humulene	21.161.01, GC	n.s.	0.26 %
Refractive index (20°C)	21.080.03, Abbe-Refractometer	n.s.	1.4902
Density (20°C)	21.024.03, Pycnometer	n.s.	0.9499 g/cm ³

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

Storage conditions: Store in a cool, dry place!



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Digitally signed by Anja Cawelius
Reason: Quality Control
Date: 2017.02.24 08:56:22 +01'00'

The product meets specifications no. 66.350.02/66.289.01; date of analysis: 2017.02.24

This computerized CoA has digital signature validated by Nature's Gift.

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.