



## Certificate of Analysis

### Rhatany Root CO2-total standardised Batch #GE-58917

lab no. 26686  
production: February 2019 retest: February 2024  
raw material: *Krameria lappacea* - Root, dried  
country of origin of raw material: Peru  
country of origin of product: Germany  
D/E - ratio: 24 - 33 kg raw material yield 1 kg product.  
Product contains: about 40 % Olive oil (organic)

#### Sensory Check

feature	reference	result
Appearance:	orange-brown, viscous liquid	meets

#### Analytical Check

feature	method	limits	value unit
Specific extinction value	Spectrometer: 280 nm	> 20	27,0 cm <sup>2</sup> /mg
Specific extinction value	Spektrometer: 300 nm	n.s.	23,4 cm <sup>2</sup> /mg
Specific extinction value	Spektrometer: 320 nm	n.s.	22,4 cm <sup>2</sup> /mg
Specific extinction value	Spektrometer: 340 nm	n.s.	9,5 cm <sup>2</sup> /mg
Rhatany lignan I	21.146.02, GC	n.s.	9,3 %
Rhatany lignan II	21.146.02, GC	n.s.	9,6 %
Rhatany lignan III	21.146.02, GC	n.s.	0,80 %
Rhatany lignan IV	21.146.02, GC	n.s.	3,0 %
Rhatany lignan V	21.146.02, GC	n.s.	0,37 %
Sum of Rhatany lignans	21.146.02, GC	20 - 30	23,0 %
Residual content of ethanol	21.025.04, GCFID	< = 2	1,8 %

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

Rhatany lignan 1: (2R,2R)-2,3-dihydro-2-(4-hydroxyphenyl)-3-methyl--5-(E)-propenylbenzofuran  
Rhatany lignan 2: 2-(4-hydroxyphenyl)-3-methyl-5-(E)-propenylbenzofuran  
Rhatany lignan 3: 2-(2,4-dihydroxyphenyl)--5-(E)-propenylbenzofuran  
Rhatany lignan 4: 2-(2-methoxy-4-hydroxyphenyl)-5-(E)-propenylbenzofuran  
Rhatany lignan 5: 3-formyl-2-(4-hydroxyphenyl)-5-(E)-propenylbenzofuran

Storage conditions: Store in a cool, dry place!

Digitally signed by Anja Cawelius  
Reason: Quality Control  
Date: 2019.02.25 15:07:32 +01'00'

The product meets specifications no. 16.500.01/66.477.02; date of analysis: 2019.02.25

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

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.