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316 Old Hickory Blvd East
Madison, TN 37115
Tel(615)612-4270 fax (615)860-9171

orderdesk@naturesgift.com

Certificate of Analysis

Rhatany Root CO2

Batch #GE-781223

lab no: 25222
type no: 159.005
production: July 2018 retest: July 2023
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	26,2 cm ² /mg
Specific extinction value	Spektrometer: 300 nm	n.s.	23,6 cm ² /mg
Specific extinction value	Spektrometer: 320 nm	n.s.	22,6 cm ² /mg
Specific extinction value	Spektrometer: 340 nm	n.s.	10,5 cm ² /mg
Rhatany lignan I	21.146.02, GC	n.s.	10,4 %
Rhatany lignan II	21.146.02, GC	n.s.	11,6 %
Rhatany lignan III	21.146.02, GC	n.s.	1,0 %
Rhatany lignan IV	21.146.02, GC	n.s.	2,1 %
Rhatany lignan V	21.146.02, GC	n.s.	0,40 %
Sum of Rhatany lignans	21.146.02, GC	20 - 30	25,4 %
Residual content of ethanol	21.025.04, GCFID	< = 2	0,80 %

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 Cawellius
Reason: Quality Control
Date: 2018.07.

The product meets specifications no. 16.500.01/66.477.02; date of analysis: 2018.07.10

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.