

# **CERTIFICATE OF ANALYSIS**

## *Ginger Organic Essentiële olie*

Product: GINGER ORGANIC OIL  
Botanical Name: Zingiber officinale  
INCI: Zingiber officinale (Ginger) Root Oil  
CAS Number: 8007-08-7 ; 84696-15-1  
EINECS Number: 283-634-2  
Fema: 2822  
Batch: 11222009

Part used Rhizomes (Roots)  
Extraction method Steam Distilled Essential Oil  
Country of Origin India  
Quality 100% Pure and Natural

### **PROPERTIES**

Appearance  
Odour

Refractive Index  
Specific Gravity (g/mL)  
Optical Rotation  
Solubility

### **SPECIFICATIONS**

Pale yellow to orange brown colored liquid  
Warm, smooth, sweet, spicy aroma  
reminiscent of fresh cut ginger  
1.480 - 1.495 @ 20°C  
0.865 - 0.894 @ 20°C  
-52° to -10°+  
Soluble in alcohols and fixed oils;  
Insoluble in water

### **RESULTS**

CONFORMS  
  
CONFORMS  
1471  
0.886  
CONFORMS  
CONFORMS

### **COMMENTS**

Quality is excellent

### **MICROBIAL ANALYSIS**

Aerobic Mesophilic Bacterial Count  
Yeast and Mould  
Candida albicans  
Escherichia coli  
Pseudomonas aeruginosa  
Staphylococcus aureus

### **SPECIFICATIONS**

<100 CFU/g  
< 10 CFU/g  
Absent/ 1g  
Absent/ 1g  
Absent/ 1g  
Absent/ 1g

### **STANDARDS**

ISO 21149  
ISO 16212  
ISO 18416  
ISO 21250  
ISO 22717  
ISO 22718

### **RESULTS**

CONFORMS  
CONFORMS  
CONFORMS  
CONFORMS  
CONFORMS  
CONFORMS

#### **HEAVY METAL TESTS**

Lead (Pb)  
Arsenic (As)  
Mercury (Hg)

#### **SPECIFICATIONS**

< 10 ppm  
< 2 ppm  
< 1 ppm

#### **RESULTS**

NOT DETECTED  
NOT DETECTED  
NOT DETECTED

#### **STABILITY AND STORAGE**

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

#### **Product Statement**

We hereby certify that Organic Ginger Oil, is free of genetically modified materials and components. No ingredients, additives or processing aids of GMO are used in the proces or producing and purifying the oil. Pure Naturals does not take part in any animal testing what so ever.

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