

CERTIFICATE OF ANALYSIS (COA) – ORGANIC CHAMOMILE BLUE OIL

1) IDENTIFICATION OF THE PRODUCT

INCI Name	Matricaria chamomilla flower Oil
Botanical source	Steam distillation from the flowering tops of <i>Matricaria chamomilla</i> .
Product Code	PSD00800
Lot No.	PSD0817150
Status	Organic
Production Date	Jun 2020
Best Before Date	May 2022
Part of Plant Used	Flowering tops
Production Process	Steam distillation
Manufacturer	Pure Essential Oils & Herbs Co.

REGULATORY INFORMATION

FEMA #	2273	EINECS #	282-006-5
FDA	182.20	CAS #	8002-66-2 ; 84082-60-0
WGK	2	IATA	Not regulated

CHEMICAL COMPONENT

	Standard	Result (by GC %)
<i>Alpha-farnesene</i>	10.0 – 20.0	18.60
<i>Alpha-bisabolol b</i>	5.0 – 10.0	6.30
<i>Chamazulene</i>	1.5 – 3.0	2.80
<i>Alpha-bisabolol a</i>	30.0 – 50.0	42.70
<i>Bicycloether (e) + (z)</i>	3.0 – 5.2	3.40

PHYSICAL PROPERTIES

	Specifications	Result
1. Physical state	Blue green	conforms
2. Odor/taste	Honey, tobacco, sweet, fruity	conforms
3. Solubility in water	Insoluble	conforms
4. Solubility in Alcohol	Soluble	conforms
5. Refractive index @ 20°C	1.500 to 1.516	1.512
6. Relative Density @ 20°C	0.950 - 0.965	0.959
7. Optical Rotation (°)	+00 to +8.00	conforms
8. Flash point	>80°C	conforms

MICROBIAL ANALYSIS

	Specifications	Result
Aerobic Bacterial Count	<100 cfu/g (ISO 21149)	conforms
Yeast and Mould	<10 cfu/g (ISO 16212)	conforms
Candida albicans	Absent/1g (ISO 18416)	conforms
Escherichia coli	Absent/1g (ISO 21150)	conforms

HEAVY METAL

	Specifications	Result
Lead (Pb)	<10 ppm	Not detected
Arsenic (As)	<2 ppm	Not detected
Mercury (Hg)	<1 ppm	Not detected

PACKAGING	
Bottles	30 ml, 60 ml, 120 ml
Cans	5 Kg, 10 Kg, 20Kg, 50kg and 100 kg
Drums	50, 180 and 200 kg

GMO free Statement:

Product is GMO free

Irradiation Statement:

To produce the product, no irradiated materials were used; product itself was also not irradiated.

Animal protection and Vegan Statement:

Product is purely vegetable origin and comes during its manufacture, storage and its transport with no animal materials in contact. Neither our product nor its ingredients have been tested on animals. Likewise, no animal testing will be undertaken at present and in future.

Sterility:

Product is free of *Candida albicans*, *Staphylococcus aureus* and *Pseudomonas aeruginosa* bacteria.

Allergen free:

Product contains no detectable amounts of proteins and consequently has no risk of allergens as defined by the food law. If allergens should be present, we will expressly point out.

Disclaimer:

The information contained in this specification is based on data considered to be accurate and reliable as at the date of the specification to the best of the supplier's knowledge and belief. It is user's obligation to determine the safe use of the product for its own applications or suitability for use since the conditions of use, handling, storage and disposal are beyond the supplier's control. The user should therefore take all necessary precautions to ensure the safe and suitable use of the product described in the specification

Approved by:	QA	Page 2 of 2	Version:	20 Jan 2020
--------------	----	-------------	----------	-------------