

Technical datasheet: Bluenesse

1. Product Description

Bluenesse is a fine beige-brown powder extract obtained from the leaves of *Melissa officinalis* (L.).
Melissa officinalis (L.) is a member of the family Lamiaceae, an annual edible herb native to Europe.
Country of origin: Germany

2. Manufacturer/Supplier

Möller Pharma GmbH & Co. Herstellungs- und Vertriebs KG
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D- 45659 Recklinghausen
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D- 40764 Langenfeld
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<http://www.vitalsolutions.biz>

3. Composition

Melissa officinalis (L.) Leaf Extract: 70-95%
Tapioca Maltodextrin: 5-30%

4. Manufacturing Procedure

Bluenesse is obtained from the leaves of the dried *Melissa officinalis* (L.) plant by water extraction. The raw material: extract ratio of the native extract is 3-4.5:1. The extract is dried together with Tapioca maltodextrin. No preservatives are added.

5. Specification

Appearance:	Fine beige-brown powder with characteristic odor
Solubility:	10g freely soluble in 100g water at ambient temperature
Loss on drying:	≤ 5.0 %
Particle size:	100% <500µm
	80% <300µm
Bulk density:	0.40-0.65 g/ml
Tapped density:	0.60-0.85 g/ml
pH:	4.8-5.5 10 % water solution
Foreign matter:	not detected
Rosmarinic acid:	≥ 6% (Assay HPLC)
Muscarin M1 receptor affinity	Yes

Pesticides (EC) NO396/2005: According to legislation

Heavy metals (EC) NO1881/2006:

Arsen:	≤ 1 mg/kg (ppm)
Cadmium:	≤ 0.05 mg/kg (ppm)
Lead:	≤ 0.1 mg/kg (ppm)
Mercury:	≤ 0.1 mg/kg (ppm)

Microbiology: Ph. Eur. latest edition 5.1.4

Total aerobic plate count:	≤ 1000 cfu/g
Yeast and mould:	≤ 100 cfu/g
Coliforms/Enterobacteria:	≤ 100 cfu/g
Salmonellae:	absent in 10 g
Escherichia coli:	absent in 1 g
Staphylococcus aureus:	absent in 1 g

6. Nutritional Analysis

Energy:	300-350 kcal/100 g
Protein:	7-10 g/100 g
Fat:	0-0.5 g/100 g
Trans fat:	not detected (Limit: 0.05 g/100 g)
Cholesterol:	not detected (Limit: 1 mg/100 g)
Carbohydrates:	65-75 g/100 g
Sugar:	10-11 g/100 g
Dietary fibre:	2-8 g/100 g
Sodium:	3-9 mg/100 g
Ash:	<13 g/100 g

7. Contaminants

The following contaminants are randomly inspected:

Aflatoxins, Dioxins/PCBs, Polyaromatic hydrocarbons (PAH), Pyrrolizidine alkaloids

8. Intended Use and Declaration

The intended use is for foods and food supplements.

It is recommended to label the product as “*Melissa officinalis* (L.) extract”.

It is recommended to label the organic version of the product as “organic *Melissa officinalis* (L.) extract”.

9. Storage and Shelf-life

The shelf-life of Bluenesse in sealed original containers and under dry conditions at ambient temperature is at least 3 years. We recommend storing Bluenesse under dark, cool and dry conditions in sealed original containers.

10. Packaging

5 kg, 10 kg and 20 kg (net weight) Bluenesse is packed into a food-grade Aluminium bag.

11. Regulatory

Bluenesse can be used in food and in food supplements in Europe. The Scientific Committee (SC) of EFSA (European Food Safety Authority) has listed *Melissa officinalis* within its botanical compendium in annex B, confirming that they could not identify any safety concerns.

Bluenesse can be used in foods and dietary supplements in the U.S., as it is generally recognized as safe (GRAS) listed in CFR.21, part 182. It does not fall under the requirements of a New Dietary Ingredient Notification.

12. Certificates

Allergen free certificate

Non-GMO certificate

Gluten-free certificate

TSE/BSE certificate

Non-Radiation certificate

Melamine certificate

Organic certificate / Organic compliance certificate

Ingredient certificate

Halal certificate

Kosher certificate

Vegan certificate