

Quality of Botanical Preparations

Self-Assessment Questionnaire to accompany the Specific Recommendations for the Manufacturing of Botanical Preparations, Including Extracts as Food Supplements

October 2016

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Questionnaire to Assist with Assessment of Botanical Preparations

The following questionnaire has been designed to accompany the Food Supplements Europe guidance on 'Quality of Botanical Preparations'. Its aim is to assist food supplement manufacturers with assessing the quality of botanical preparations when selecting their raw materials and to highlight areas where further information may need to be requested from the supplier; and also to help suppliers ensure that they provide adequate information to their customer.

All botanical preparations used in food supplements intended for sale in the European Union (EU) must comply with all relevant requirements of EU food legislation with regard to composition, quality and safety. The quality of the preparation and consistency of production is particularly important where a quantitative or qualitative claim is to be made for a botanical for one or more of its constituents.

For the purposes of this questionnaire, and as defined in this guidance, botanical preparations include all preparations obtained from botanicals by various processes (e.g. pressing, squeezing, extraction, fractionation, distillation, concentration, drying up and fermentation). These include comminuted or powdered herbal substances, tinctures, extracts, essential oils, expressed juices and processed exudates.

The Section numbers under Parts A and B relate to the sections in the Quality of Botanical Preparations guidance.

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Supplier Company information

Supplier Company Name:	
Supplier Company Address:	
Telephone No:	
Email:	
Is the supplier company the ma	anufacturer of the botanical preparation? Yes No
– If No, provide Manufa	acturing Company's name and address:
Manufacturer's Name: Manufacturer's Address (manufacturing facility)	S:

PART A: SELECTION OF RAW MATERIAL

The Section numbers relate to the relevant sections in the Quality of Botanical Preparations guidance.

1. Origin of Botanical Sources and Compliance with Good Agricultural and Collection Practices

1.1.	Origin of the botanical:		
	- Country:		
	- Region:		
1.2.	Botanical traceability:		
	- Batch/lot number present?	Yes	No _
	- Shipment ID number relates to batch/lot number?	Yes	No
	- Is other identification of consignment given?	Yes	No
	Specify		
1.3.	Is the consignment in more than one container?	Yes	No _
	- If Yes, are the individual containers clearly identified?	Yes	No
1.4.	Is written confirmation available for the relevant batches/lots to show that cultivation	on/collection, ha	ırvest,
	storage and processing (as applicable) were in compliance with the basic principle	es of good agric	ultural
	and collection practice, particularly in relation to identification and traceability?	Yes	No
	- If Yes, please attach to this questionnaire		
1.5.	Is the botanical preparation in compliance with the requirements of the Convention	n on Internationa	al Trades
	in Endangered Species of Wild Flora and Fauna (CITES)?	Yes	No 🗌

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2. Botanical Identification and Characterisation

Identity of Source Material

2.1.	Scientific (Latin) name (the following as applicable):				
	- Botanical family:				
	- Genus:				
	- Species:				
	Variety:				
	– Subspecies:				
	Author's name:				
	- Chemotype:				
2.2.	Known synonyms:				
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2.3.	Common namo(a):				
2.3.	Common name(s):				
2.4.	Is the botanical:				
2.4.	- Wild-growing?				
	- Cultivated?				
2.5.	Harvesting conditions	of the unprocessed bo	tanical:		
	- Date/Date range/Sea	ason of harvest:			
	 Stage of plant growt 	h at time of harvest:			

2.6.	Is the unprocessed botanical (tick all that apply): - Harvested by hand? - Mechanically harvested?	
2.7.	Describe drying process:	
2.8.	Has the drying process been designed so as to reduce contamination by polycyclic aromatic hydrocarbons (PAHs)? Yes No	
	- If Yes, describe the precautions taken	
2.9.	Plant part(s) used in the botanical preparation:	
	- Whole plant:	
	- Underground parts only: (Specify below)	
	Root: Rhizome: Tuber: Bulb:	
	Other Details:	
	- Aerial parts only: (Specify below)	
	Stem: Bark: Leaves: Flower: Flower:	
	Fruit: Seed: Seed:	
	Other Details:	

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Confir	mation of Identity						
2.10.	10. Identification of the unprocessed botanical has been confirmed by:						
	- Macroscopic examination:		Yes		No		
	- Microscopic examination:		Yes		No		
	- Chromatographic/spectroscopic examir	nation:	Yes		No		
	Specify method:						
	- Other characteristic assay:		Yes		No		
	Specify method:						
	- Physical tests:		Yes		No		
	Specify:						
2.11.	Test results provided for each batch/lot.		Yes		No		
3: Trad	ceability						
3.1.	Traceability records from point of plant gro	owth meet the requirements of the					
0	EU Regulation on General Food Law?		Yes		No		
/ Tre	atments of the Source Material						
		inal language invalidation (O			N.		
4.1.	Has the unprocessed or processed botan		Yes		No		
4.2.	Is the botanical sourced from a genetically	/ modified plant?	Yes		No		

Yes ___

No

4.3.

- If Yes, give EU authorisation details:

Has any form of fumigant been applied?

- If Yes, give details:

5. Integrity of Botanical Material					
5.1.	Is the unprocessed botanical material screened for extraneous foreign matter?	Yes	No		
5.2.	Are controls in place to ensure co-harvesting with other species is avoided and only one species of botanical is present in the harvested material?	Yes	No		
5.3.	Are controls in place to ensure that the unprocessed botanical material contains only those plant parts intended for use?	Yes	No		
6. Con	taminants and Residues				
6.1.	Has the unprocessed botanical and/or the botanical preparation been tested for: Heavy Metals: Lead Cadmium Mercury Arsenic Mycotoxins: Aflatoxins Ochratoxin A Other Specify	Yes	No		
	Environmental Contaminants: - Dioxins, furans and dioxin-like Polychlorinated Biphenyls (PCBs) - Polycyclic Aromatic Hydrocarbons (PAHs) - Radioactivity Plant metabolites:	Yes	No		
	Pyrrolizidine alkaloids (PAs)Tropane alkaloids (TAs)	Yes Yes	No No		
	Residues: - Pesticide, herbicide and fungicide residues - Ethylene Oxide - Other fumigants	Yes	No No No		

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6.2.	Are test results provided for each batch/lot?	Yes		No	
6.3.	Where relevant, are the test results within the limits laid down in EU legislation?	Yes		No	
6.4.	Where the unprocessed botanical has been tested, do the test results ensure compliance under EU contaminants and pesticides legislation if the botanical is concentrated through processing?	Yes		No	
7. Mic	robiological contamination				
7.1.	Has the unprocessed botanical and/or the botanical preparation been tested for:				
	- Total Plate Count (Total Viable Count)	Yes		No	
	- Escherichia coli	Yes		No	
	- Salmonella spp.	Yes		No	
	- Enterobacteriaceae	Yes		No	
	- Total combined Moulds/Yeasts	Yes		No	
7.2.	Are test results provided for each batch/lot?	Yes		No	
7.3.	Have the test results been checked against the specifications set out in the Europea	an Pha	armacopo	eia	
	(where no limits are set under EU legislation) to ensure they are within acceptable legislation.	vels?			
		Yes		No	

PART B: BOTANICAL (EXTRACT) PREPARATION

Although this section is primarily focussed on botanical extracts, in cases where the questions can also be applied to other botanical preparations, these should be answered in relation to the particular botanical preparation.

 $\label{thm:continuous} The \ \ Section \ numbers \ relate \ to \ the \ relevant \ sections \ in \ the \ Quality \ of \ Botanical \ Preparations \ guidance.$

Form (of botanical preparation:		
	- Extract		
	- Comminuted or powdered herbal substance		
	- Tincture		
	- Essential oil		
	- Expressed juice		
	- Processed exudate		
	- Other		
	Specify		
1. Def	initions and Legal Aspects of Different Forms of Extract/Other Preparation Is the botanical extract: — A standardised extract? — A quantified extract? — Other extract?	Yes	No
1.2.	Is the botanical preparation considered 'not novel' in food supplements under the foods Regulation? — If Yes, confirmation should be retained and provided upon request	EU novel Yes	No

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2. Ma	rker Determination				
2.1.	Markers present in the botanical extract/other preparation: - Active markers: Specify - Analytical markers: Specify				
3. Bot	anical/Extract Ratio				
3.1.	State the dried plant : native extract ratio on dry weight basis				
4. Selo 4.1.	ection of Extraction Solvent Are all solvents used to prepare the extract compliant with EU legislation on extraction production of foodstuffs and food ingredients?	on solv Yes	rents use	ed in th	ne
4.2.	Solvents used:				
4.3.	Solvent ratio:				
4.4.	Solvent residues in compliance with EU legislation?	Yes		No [

5. Composition of Extract/Other Preparation as Marketed (Commercial Extract)

5.1.	Details of all added components in the commercial extract/other preparation:					
	Additive/Other material	E number of additive Additive is compliant (where applicable) with EU purity criteria				
			Yes	No 🗌		
			Yes	No 🗌		
			Yes	No 🗌		
			Yes	No		
			Yes	No		
			Yes	No		
5.2.	Actual quantity (in g) of native extract per 100g	y/100 ml of commercial extract	:			
6 Proc	duct stability and shelf-life					
	-					
6.1.	Has the stability of the botanical preparation be to the customer?	een assessed in the packaging	g in which it is sold Yes	No _		
	- If Yes, have the assessments included 'in us	e' stability tests?	Yes	No		
6.2.	Expected shelf-life of the botanical preparation	:				

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REMARKS

The European food supplement sector brings together many of the most innovative and dynamic companies in the food area, making a substantial contribution to Europe's public health goals.

Food Supplements Europe combines the unique expertise of associations and companies committed to building partnership with regulatory, scientific and consumer bodies to help shape the future regulatory and policy framework in this area and to ensure that consumers can benefit from safe and high quality products.



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