

PURECOAL® - Charbon actif végétal BIO (France)

Issu du bois de châtaignier - *Castanea sativa* Mill.

Agriculture biologique certifié FR-BIO-01

Certificat d'analyse

Indice 8 ()

N° Lot :		DDM :	
Caractéristiques Physiques	Spécification	Méthode	Résultats
Aspect	Poudre à granulométrie contrôlée	Visuelle	Conforme
Couleur	Noire	Visuelle	Conforme
Nature	Bois carbonisé puis activé à la vapeur	Interne	Conforme
Odeur	Inodore	Interne	Conforme
Référence sélectionnée	100B	Interne	Conforme
Substance active			
Taux de carbone fixe	≥ 95 %	Externe	Plan de contrôle
Métaux lourds / Pureté			
Plomb (Pb)	≤ 3 ppm	Externe	Conforme
Arsenic (As)	≤ 2 ppm	Externe	Conforme
Cadmium (Cd)	≤ 1 ppm	Externe	Conforme
Mercurure (Hg)	≤ 0,1 ppm	Externe	Conforme
Résidus de Pesticides	Aucun	Externe	Conforme
HAPs	≤ 50 ppb	Externe	< 40 ppb
Benzo(a)pyrène	≤ 10 ppb	Externe	< 10 ppb
Aflatoxines (B1/B2/G1/G2)	≤ 4 ppb	Externe	Plan de contrôle
Microbiologie			
Flore totale	< 10 000 CFU/g	Interne (NF ISO 4833)	Absence
Levures et Moisissures	< 100 CFU/g	Interne (ISO 21527-2)	Absence
Bactéries Gram-résistantes aux sels biliaires	< 100 CFU/g	Externe (NF V 08-054)	< 10 CFU/g
Escherichia Coli (1 g)	Absence	Externe (NF ISO 7251)	Absence
Salmonelles (25 g)	Absence	Externe (TRA-02-08-03-01)	Absence
Staphylocoques (1 g)	Absence	Externe (NF EN ISO 6888-3)	Absence
Caractéristiques Physiques			
Perte au séchage	≤ 5 %	Externe	4,68 %
Granulométrie	100 à 500 µm	Externe	Conforme
Taux de cendres sur sec	≤ 4 %	Ph. Eur. (9.6)	2,15 %
Solubilité (1 %)	Insoluble dans l'eau	Interne	Conforme
Densité apparente	0,15 - 0,4	Externe	Conforme
Densité tapée à 1250 coups	0,2 - 0,6	Ph. Eur. (9.4)	0,35
Taille des pores	≥ 92 % micropores (< 2 nm) ≤ 8 % mésopores (2-50 nm)	Interne	
Surface spécifique N.L.D.F.T. dont B.E.T	≥ 800 m ² /g ≥ 400 m ² /g	N.L.D.F.T. (H ₂ + N ₂) B.E.T. (N ₂)	Conforme Conforme
Pouvoir adsorbant (phénazone)	15-25 %	Pharmacopée européenne	16,0 %

STOCKAGE

Conserver dans un endroit sec et à température ambiante dans son emballage d'origine intact. Les informations ci-dessus sont basées sur nos connaissances actuelles. ne peut être tenue responsable en dehors des garanties inscrites sur ses fournitures. En raison du fait qu'il ne contrôle pas l'utilisation finale de ce produit. Il est de la responsabilité de l'acheteur de se conformer aux textes locaux et aux lois réglementant son activité et l'utilisation de ce produit.

Service Contrôle Qualité

CERTIFICATE OF ANALYSES

ORGANIC ST MARY'S THISTLE FR 1:1 DE PR5378

Batch: _____

COA Version: 1

Edition date: _____

Manufactured: _____

Best before: _____

Organic labelling regulation ((UE) 2018/848 - art.32):

BIO = FR-BIO-01

Botanical kind:

Compositae Silybum marianum (L.) Gaertner

Part of the plant:

Dried fruit (achene)

Ratio plant / final extract:

1 to 1 (a)

Extraction solvent(s):

Water

Carrier(s):

Organic wheat maltodextrin

DESCRIPTION

	Specifications	Method and reference	Result
Appearance	<i>Powder</i>		<i>Powder</i>
Color	<i>Off-white to light brown</i>		<i>Light beige</i>

ANALYSES

	Specifications		Method and reference	Result
	Min	Max		
Identification (raw material) (4)	<i>Complies</i>		<i>MO-102 - TLC, Eur. Ph. (01/2014:1860), "Milk thistle fruit" monograph</i>	<i>Complies (4)</i>
Loss on drying [%] (11)	-	<i>8.00</i>	<i>MO-183 - Eur. Ph. (01/2008:20817) and (02/2008:20816)</i>	<i>1.84</i>
Bulk density	<i>0.30</i>	<i>0.70</i>	<i>MO-181 - Eur. Ph. (04/2019:20934)</i>	<i>0.51</i>
Screening [% < 500 µm]	<i>95.0</i>	-	<i>MO-184 - Granulometer, internal method</i>	<i>100.0</i>

CONTAMINANTS

	Specifications		Method and reference	Result
	Min	Max		
Pb content [ppm] (4)	-	<i>< 3.00</i>	<i>AE-01 - ICP, internal method</i>	<i>Complies (4)</i>
Cd content [ppm] (4)	-	<i>< 1.00</i>	<i>AE-01 - ICP, internal method</i>	<i>Complies (4)</i>
Hg content [ppm] (4)	-	<i>< 0.10</i>	<i>AE-01 - ICP, internal method</i>	<i>Complies (4)</i>
Pesticides content [ppm] (4)	<i>< detection limit</i>		<i>AE-02 - GC-MSMS/LC-MSMS, internal method</i>	<i>Complies (4)</i>
Benzo(a)pyrene content [ppb] (4)	-	<i>< 10.0</i>	<i>AE-03 - GC-MS-MS, internal method</i>	<i>Complies (4)</i>

CERTIFICATE OF ANALYSES

ORGANIC ST MARY'S THISTLE FR 1:1 DE PR5378

Pahs (sum of benzo(a) pyrene, benz(a) anthracene, benzo(b) fluoranthene and chrysene) content [ppb] (4)	-	< 50.0	<i>AE-03 - GC-MS-MS, internal method</i>	<i>Complies (4)</i>
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MICROBIOLOGY	Specifications		Method and reference	Result
	Min	Max		
Total aerobic microbial count [CFU/g] (1)	-	< 10 000	<i>AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)</i>	< 100
Total yeasts/moulds count [CFU/g] (1)	-	< 100	<i>AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)</i>	< 10
Salmonella content [/25g]	<i>Absent</i>		<i>AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)</i>	<i>Absent</i>
Bile-tolerant Gram negative bacteria content [CFU/g]	-	< 100	<i>AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)</i>	< 10
Escherichia coli content [/g]	<i>Absent</i>		<i>AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)</i>	<i>Absent</i>

(1) Acceptable maximal count: 5 times the acceptance criterion according to Eur. Ph. VIII° Ed. 5.1.8 Category B

(11) First ten batches

(4) HACCP based control plan defined annually according to risk analysis

Best before/ 24

DMD (in months) :

Storage conditions: Store in closed original packaging at 5 to 25°C in a dry place and protected from light.

CERTIFICATE OF ANALYSES

ORGANIC ST MARY'S THISTLE FR 1:1 DE PR5378

Complementary data (a): Variable indicative raw material ratio depending on productions and / or variability of the raw material. Non contractual data.

*This reference is neither an Active Pharmaceutical Ingredient nor an excipient for pharmaceutical use
Responsibility of final labelling lies with the company placing the final product on the market.*

- Complies with French decrees (2006-352 and 24th June 2014)

- According to Regulation 1999/3/EC, and its modifications, has not been ionized.

- According to the Regulations 2001/18/EC, 1829/2003 and 1830/2003, and its modifications, the above mentioned item does not contain deliberately added GMO. (fortuitous or technically inevitable traces could be detected at less than 0,9%)

- The product does not contain TSE/BSE substances

Quality Assurance Manager

CERTIFICATE OF ANALYSES

ORGANIC EUROPEAN WHITE BIRCH LE 5:1 DE PR1427

Batch:
Manufactured: Mon,

COA Version:1

Edition date:
Best before:

Organic labelling regulation
(UE) 2018/848 - art.32):

BIO = FR-BIO-01

Botanical kind:

Betulaceae Betula pendula Roth

Part of the plant:

Leaf

Ratio plant / final extract:

5 to 1 (a)

Extraction solvent(s):

Water

Carrier(s):

Organic wheat maltodextrin

DESCRIPTION

	Specifications		Method and reference	Result
	Min	Max		
Appearance	<i>Thin powder</i>			<i>Powder</i>
Color	<i>Light brown to dark brown</i>			<i>Beige greyish</i>
Solubility	<i>To be tested following the degree of incorporation</i>			<i>Not done</i>

ANALYSES

	Specifications		Method and reference	Result
	Min	Max		
Methyl salicylate content [%] (4)	<i>Indicative value</i>		<i>AE-36 - GC-MS, internal method</i>	<i>Complies (4)</i>
Identification (raw material) (4)	<i>Complies</i>		<i>MO-65 - TLC, Eur. Ph. (04/2013:1174), "White birch leaf" monograph</i>	<i>Complies (4)</i>
Loss on drying [%]	-	<i>8.00</i>	<i>MO-183 - Eur. Ph. (01/2008:20817) and (02/2008:20816)</i>	<i>Complies</i>
Bulk density	<i>0.30</i>	<i>0.70</i>	<i>MO-181 - Eur. Ph. (04/2019:20934)</i>	<i>0.61</i>
pH (1% in demineralized water)	<i>4.0</i>	<i>6.0</i>	<i>MO-03 - pH-meter, Eur. Ph. (07/2016:20203), "Potentiometric determination of pH" monograph</i>	<i>Complies</i>
Screening [% < 500 µm]	<i>95.0</i>	-	<i>MO-184 - Granulometer, internal method</i>	<i>100.0</i>

CONTAMINANTS

	Specifications		Method and reference	Result
	Min	Max		
Pb content [ppm] (4)	-	<i>< 3.00</i>	<i>AE-01 - ICP, internal method</i>	<i>Complies (4)</i>
Cd content [ppm] (4)	-	<i>< 1.00</i>	<i>AE-01 - ICP, internal method</i>	<i>Complies (4)</i>

CERTIFICATE OF ANALYSES

ORGANIC EUROPEAN WHITE BIRCH LE 5:1 DE PR1427

Hg content [ppm] (4)	-	< 0.10	AE-01 - ICP, internal method	Complies (4)
As content [ppm] (4)	-	< 1.00	AE-01 - ICP, internal method	Complies (4)
Pesticides content [ppm] (4)	< detection limit		AE-02 - GC-MSMS/LC-MSMS, internal method	Complies (4)
Benzo(a)pyrene content [ppb] (4)	-	< 10.0	AE-03 - GC-MS-MS, internal method	Complies (4)
Pahs (sum of benzo(a) pyrene, benz(a) anthracene, benzo(b) fluoranthene and chrysene) content [ppb] (4)	-	< 50.0	AE-03 - GC-MS-MS, internal method	Complies (4)

MICROBIOLOGY	Specifications		Method and reference	Result
	Min	Max		
Total aerobic microbial count [CFU/g] (1)	-	< 10 000	AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)	790
Total yeasts/moulds count [CFU/g] (1)	-	< 100	AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)	< 10
Salmonella content [/25g]	Absent		AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)	Absent
Bile-tolerant Gram negative bacteria content [CFU/g]	-	< 100	AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)	< 10
Escherichia coli content [/g]	Absent		AE-04 - Eur. Ph. (07/2010:20612) and (01/2014:20631)	Absent

(1) Acceptable maximal count: 5 times the acceptance criterion according to Eur. Ph. VIII° Ed. 5.1.8 Category B

(4) HACCP based control plan defined annually according to risk analysis

Best before/ DMD (in months) : 24

Storage conditions: Store in closed original packaging at 5 to 25°C in a dry place and protected from light.

CERTIFICATE OF ANALYSES

ORGANIC EUROPEAN WHITE BIRCH LE 5:1 DE PR1427

Complementary data (a): Variable indicative raw material ratio depending on productions and / or variability of the raw material. Non contractual data.

*This reference is neither an Active Pharmaceutical Ingredient nor an excipient for pharmaceutical use
Responsibility of final labelling lies with the company placing the final product on the market.*

- Complies with French decrees (2006-352 and 24th June 2014)

- According to Regulation 1999/3/EC, and its modifications, has not been ionized.

- According to the Regulations 2001/18/EC, 1829/2003 and 1830/2003, and its modifications, the above mentioned item does not contain deliberately added GMO. (fortuitous or technically inevitable traces could be detected at less than 0,9%)

- The product does not contain TSE/BSE substances

Quality Assurance Manager

Certificate of Analysis

Product Description Organic* Chlorella Powder China Origin
Latin Name *Chlorella vulgaris Beijerinck*
Product Code
Batch Number
Production Date
Best Before Date

Properties	Target Value	Lower Control Limit	Upper Control Limit	Results	Unit Of Measure
ORIGIN					
ORIGIN	China				
ORGANOLEPTIC					
TEXTURE	Powder			Powder	
COLOR	Dark green			Dark green	
ODOR	Characteristic			Characteristic	
PHYSICAL AND CHEMICAL***					
LOSS ON DRYING			8,00	2,60	%
BULK DENSITY		0,500	0,700	Complies	G/ML
PARTICULE SIZE	100			Complies	MESH
ASSAY **/***					
Total carotenoids		500,00	1 000,00	Complies	MG/100G
Chlorophyll		1 500,00	3 000,00	Complies	MG/100G
Iron		100,00	120,00	Complies	MG/100G
MICROBIOLOGICAL**/***					
TOTAL PLATE COUNT			100 000	< 400	CFU/G
YEAST AND MOULD			300	< 10	CFU/G
SULFITO REDUCING ANAEROBIC			100	< 10	CFU/G
FECAL COLIFORMS			10	ND	CFU/G
CLOSTRIDIUM PERFRINGENS			1	Complies	CFU/G

Certificate of Analysis

Properties	Target Value	Lower Control Limit	Upper Control Limit	Results	Unit Of Measure
E COLI			0	Absence	CFU/10G
STAPHYLOCOCCUS AUREUS			0	Absence	CFU/10G
SALMONELLA			0	Absence	CFU/25G
HEAVY METALS**/**					
CADMIUM			0,500	Complies	PPM
LEAD			2,000	< 0,500	PPM
MERCURY			0,100	Complies	PPM
ARSENIC			1,000	< 0,500	PPM
CONTAMINANT					
ETO			0,02	Not detected	PPM
IODIN			2 000,000	< 0,200	PPM
TIN			5,000	ND	PPM
MICROCYSTINS			1,0	Complies	PPB

ALLERGENS

SULPHUR DIOXIDE AND SULPHITES > 10mg/kg

Signed by:

Certification Date :

*Product certified by

**According to a control plan

***Based on our producer's information

****Acceptable maximal count: 5 times the acceptance criterion according to European Pharmacopoeia X° Edition 5.1.8 Category B or C
(1) By calculation

Abbreviations: ND: not determined / NA: not applicable / HA : Hydroalcoholic / PE: Powder extract / FE : Fluid extract / SE : Soft extract
For herbal product : there is likely to be minor colour variation from batch to batch because of the seasonal variations of raw materials. Colour change will not affect the quality and efficacy of the product.

CERTIFICATE OF ANALYSIS

ORGANIC LEMON PEEL Powder 500µm 1.5%

Flavonoids

Product code : [REDACTED]

Batch : [REDACTED]

Product certified FR-BIO-01

Date of production: [REDACTED]

Expiry date: [REDACTED]

ORIGIN	<ul style="list-style-type: none"> Europe, Spain
FAMILY, BOTANICAL NAME	<ul style="list-style-type: none"> Rutaceae - Citrus limon (L.) Burm. F.
PART OF PLANT USED	<ul style="list-style-type: none"> Peel
CULTURE CONDITION	<ul style="list-style-type: none"> Cultivated
DESCRIPTION	<ul style="list-style-type: none"> Organic dry lemon peel is a natural product obtained of naturally, matured, sound organically cultivated lemons. The product is dried and filled immediately to assure its preservation. It contains no additives.

ORGANOLEPTIC CHARACTERISTICS

APPEARANCE	<ul style="list-style-type: none"> Powder 	<ul style="list-style-type: none"> Complies
COLOR	<ul style="list-style-type: none"> Yellow to brown 	<ul style="list-style-type: none"> Complies
ODOR	<ul style="list-style-type: none"> Characteristic 	<ul style="list-style-type: none"> Complies
TASTE	<ul style="list-style-type: none"> Characteristic 	<ul style="list-style-type: none"> Complies

PHYSICAL AND CHEMICAL CHARACTERISTICS

LOSS ON DRYING	<ul style="list-style-type: none"> ≤ 13.0 % 	<ul style="list-style-type: none"> 7.39 %
ASSAY : TOTAL FLAVONOIDS EXP AS HESPERIDIN (HPLC)	<ul style="list-style-type: none"> ≥ 1.5 % 	<ul style="list-style-type: none"> 2.02 %

MICROBIOLOGICAL CHARACTERISTICS (EP current edition - Cat C)

BACTERIAL PLATE COUNT (DGAT)	<ul style="list-style-type: none"> ≤ 10 000 000 CFU/g 	<ul style="list-style-type: none"> < 1 000 CFU/g
YEASTS & MOULDS (DMLT)	<ul style="list-style-type: none"> ≤ 100 000 CFU/g 	<ul style="list-style-type: none"> < 100 CFU/g
ENTEROBACTERIACEA	<ul style="list-style-type: none"> ≤ 10 000 CFU/g 	<ul style="list-style-type: none"> < 100 CFU/g
E. COLI	<ul style="list-style-type: none"> Absent /g 	<ul style="list-style-type: none"> Absent /g
SALMONELLA	<ul style="list-style-type: none"> Absent /25g 	<ul style="list-style-type: none"> Absent /25g

The analyses are performed by specialized laboratories (list on request).

Microbiological analyses were performed using the methods described in Ph. Eur. current edition § 2.6.12, 2.6.13 and 2.6.31 without applicability study.

The results given apply to the submitted sample only.

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CONCLUSION	COMPLIES
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Complies to original

Validated by Quality Assurance [REDACTED] version 1

CERTIFICATE OF ANALYSIS

ORGANIC GINGER Rhizome Powder 300µm

Product code : [REDACTED]

Batch : [REDACTED]

Product certified FR-BIO-01

Date of production: [REDACTED]

Expiry date: [REDACTED]

ORIGIN	• Nigeria
FAMILY, BOTANICAL NAME	• Zingiberaceae, <i>Zingiber officinale Roscoe</i>
PART OF PLANT USED	• Rhizome

ORGANOLEPTIC CHARACTERISTICS

APPEARANCE	• Fine powder	• Complies
COLOR	• Yellow	• Complies
ODOR	• Characteristic	• Complies
TASTE	• Characteristic	• Complies

PHYSICAL AND CHEMICAL CHARACTERISTICS (EP current edition)

LOSS ON DRYING	• ≤ 10.0 %	• 9.75 %
BULK DENSITY	• 0.3 – 0.4	• 0.35

CONTAMINANTS

PESTICIDES (GC AND LC-MS/MS)	• Complies to EU regulation n° 2018/848	• Complies
LEAD	• ≤ 3.0 ppm	• 0.39 ppm
CADMIUM	• ≤ 1.0 ppm	• 0.03 ppm
MERCURY	• ≤ 0.1 ppm	• < 0.005 ppm
ARSENIC	• ≤ 1.0 ppm	• 0.041 ppm
4PAH	• Benzo(a)pyrene ≤ 10.0 ppb	• < 0.5 ppb
	• 4PAH ≤ 50.0 ppb	• < 2.0 ppb
PA	• ≤ 400 ppb	• 2.7 ppb

MICROBIOLOGICAL CHARACTERISTICS (EP current edition - Cat C)

BACTERIAL PLATE COUNT (DGAT)	• ≤ 100 000 CFU/g	• < 1 000 CFU/g
YEASTS & MOULDS (DMLT)	• ≤ 10 000 CFU/g	• < 1 000 CFU/g
ENTEROBACTERIACEA	• ≤ 10 000 CFU/g	• < 10 CFU/g
E. COLI	• Absent /g	• Absent /g
SALMONELLA	• Absent /25g	• Absent /25g

The analyses are performed by specialized laboratories (list on request).

Microbiological analyses were performed using the methods described in Ph. Eur. current edition § 2.6.12, 2.6.13 and 2.6.31 without applicability study.

The results given apply to the submitted sample only.

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CONCLUSION	COMPLIES
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Complies to original

Validated by Quality Assurance [REDACTED], version 1

CERTIFICATE OF ANALYSIS

ORGANIC CHIA DRY EXTRACT BIO = FR-BIO-01 Ref: PR 5094

Batch:
 Manufactured:

Date:
 Shelf life:

CONTROLS

SPECIFICATIONS

RESULTS

<i>Botanical kind</i>	Organic <i>Lamiaceae Salvia hispanica</i> L.	Standard
<i>Part of the plant</i>	Seed	Standard
<i>Ratio plant / final extract</i>	1 to1	Standard
<i>Extraction solvent</i>	Water	Standard
<i>Description</i>	Off white to beige yellowish powder	Light beige powder
<i>Carrier</i>	Organic manioc maltodextrin	Standard
<i>Bulk density</i> (Eur. Ph. VIII° Ed. 2.9.34)	0.40 – 0.80	0.52
<i>Loss on drying</i> (Eur. Ph. VIII° Ed. 2.8.17)	≤ 10.00%	5.08%
<i>Screening</i> (Internal method)	Min 95% < 500µm	Standard
<i>Heavy metals (On request)</i> (ICP, internal method)		
<i>Pb</i>	< 3.00 ppm	Not done
<i>Cd</i>	< 1.00 ppm	Not done
<i>Hg</i>	< 0.10 ppm	Not done
<i>As</i>	< 1.00 ppm	Not done
<i>Pesticides (On request)</i> (GC-MSMS/LC-MSMS, internal method)	< detection limit	Not done
<i>PAH (On request)</i> <i>PAHs (sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene)</i> (GC-MS, internal method)	< 50 µg/kg	Not done
<i>Benzo(a)pyrene</i> (GC-MS, internal method)	< 10 µg/kg	Not done

MICROBIOLOGY

<i>Total aerobic microbial count (Pétrifilm™ / ISO 4833)</i>	< 10 000 CFU / g *	1 719 CFU / g
<i>Total yeasts/moulds count (Pétrifilm™ / AOAC 997.02)</i>	< 100 CFU / g *	96 CFU / g
<i>Salmonella (TECRA™ / ISO 6579)</i>	Absent / 25g	Absent / 25g
<i>Enterobacteria (Pétrifilm™ ISO 21528-2)</i>	< 100 CFU / g	14 CFU / g
<i>Escherichia coli (Pétrifilm™ / ISO 16649-2)</i>	< 10 CFU / g	< 10 CFU / g

*Acceptable maximal count: 5 times the acceptance criterion according to Eur. Ph. VIII° Ed 5.1.8 Category B

Storage: Keep in a dry and clean place, protected from light.

QUALITY CONTROL

Laboratory Manager