

PhytoTrust™ Hawthorn Leaf Extract

SPECIFICATION			
Product name: PhytoTrust™Hawthorn Leaf Extract			
Botanical Name	Crataegus monogyna Jacq	Part	Leaves
Origin	China	Solvent Used	Water&Ethanol
Source	Plant		
Item	Standard	Analysis Method	
Appearance	Reddish Brown Fine Powder		Visual
Odor & Taste	Characteristic		Organoleptic
Typical Analysis			
Identification	Compliant with standard reference		HPLC/TLC
Vitexin	≥3%		HPLC
Particle Size	95% through 80 mesh		Sieve analysis
Ash	≤10.0%		Ph. Eur. 2.4.16
Loss on drying	≤2.0%		Ph. Eur. 2.2.32
Residual solvents			
Ethanol	≤ 5000ppm		GC
Pesticide Residues			
Triadimenol	≤0.01 mg/kg		EN 15662:2018
Chlorantraniliprole	≤0.01 mg/kg		EN 15662:2018
Indoxacarb	≤0.01 mg/kg		EN 15662:2018
Bifenthrin	≤0.01 mg/kg		EN 15662:2018
Heavy metals			
Heavy metals	≤ 10ppm		ICP-MS
Lead (Pb)	≤ 3.0ppm		ICP-MS
Arsenic (As)	≤ 1.0ppm		ICP-MS
Cadmium (Cd)	≤ 1.0ppm		ICP-MS
Mercury (Hg)	≤ 0.1ppm		ICP-MS
Microorganism			
Total Bacterial Count	<1000cfu/g		Ph. Eur. 2.6.12
Total Molds Count	<100cfu/g		Ph. Eur. 2.6.12
Salmonella	Negative		Ph. Eur. 2.6.13
E. coli	Negative		Ph. Eur. 2.6.13
Package	N.W. 25Kgs/fiber drum and two plastic bags inside.		
Shelf life	2 Year When Properly Stored		
Storage	Store in a well-closed container Away from moisture,light, oxygen.		

INGREDIENTS

An ingredient is defined in Directive 2000/13/EC on labelling:"ingredient means any substance including additives, used in the production or preparation of a foodstuff and still present in the finished product although possibly in a modified form" i.e all raw materials to produce the goods.

Please list all ingredients:

Ingredients/material composition	%	Country of origin
Hawthorn Extract	100%	China

ORIGIN

Country of origin of the product::China					
Is a manufacturing process available		☒ YES		☐ NO	
Source of the product:		☐ Animal ☒ Plant ☐ Mineral origin ☐ Synthetic			
If animal, please answer the following questions.					
is BSE/TSE free		☐ YES		☐ NO	
Is the manufacturer registered to the European Commission		☐ YES		☐ NO	
Is the health certificate available for a food use		☐ YES		☐ NO	
If plant, please answer the following questions.					
Botanical name	Crataegus monogyna Jacq		Geographical origin	China	
Part of the plant	Leaves				
Harvest method	Manual harvesting		Harvest period:	Spring to Autumn	
Is the technical data sheet of the plant raw material available			☒ YES ☐ NO		
Are there any agents responsible for adverse effects			☐ YES ☒ NO		
If yes, please precise:					
Please precise the methods of eliminating risk constituents:					
Could you precise the treatments used on the plant harvesting?					
Irrigation	Fertilizers	Herbicides	Insecticides	Fungicides	Other
Yes	Yes	Controlled use	Controlled use	Controlled use	None

Could you precise the treatments /transformations after harvest?					
☒ Decontaminated plant(treatment used:			☐ Undecontaminated plant		
☒ Washing		☒ Drying		☐ Natural drying: ☒ Artificial drying	
Other:					
If mineral origin, please specify species					
If syntheric, please specify species					

GENETICALLY MODIFIED ORGANISMS-GMO

According to EU regulations EC/1829/2003 & EC/1830/2003

According to the EU regulations concerning the traceability and labelling of Genetically Modified Organisms(GMO), and the traceability of food products produced from GMO, we confirm that the product:		
Contains ingredient(s) from Maize and/or Soya origin	☐ YES	☒ NO
Contains no material which contains, consists of or is produced from authorized GMOs in proportion higher than 0,9%. This presence is adventitious or technically unavoidable	☒ YES	☐ NO
is GMO or contains or consists of GMOs	☐ YES	☒ NO



SmartHerb
Innovating Botanical Health

Address: Chengnan Road, Huaxi Subdistrict, Changxing County, Huzhou City, Zhejiang Province, 313100, China

is produced from GMOs or contains ingredients produced from GMOs	☐ YES	☒ NO
Contains ingredient(s) from other potential GMO-risk raw material(s) (rice, beet, cotton ...)	☐ YES	☒ NO
If Yes, please specify: o ingredient: o vegetable origin: o geographic origin:		
Contains no material which contains, consists of or is produced from evaluated GMOs in proportion higher than 0,5%. This presence is adventitious or technically unavoidable	☒ YES	☐ NO
For information about processing aids, is produced or contains ingredient(s) produced with GMOs or Genetically Modified Microorganisms processing aids (bacteria, yeast... or derived from GMOs or GMMs (including enzymes))	☐ YES	☒ NO
If yes, please specify:		
We confirm that the ingredient supplied is compliant in all respects with the Regulations N°1829/2003/EC and N°1830/2003/EC where applicable	☒ YES	☐ NO

SUBSTANCES OR PRODUCTS CAUSING ALLERGIES OR INTOLERANCES

According to Regulation (EU) No. 1169/2011 as regards of ingredients present in foodstuffs

Allergenic substances (Regulation EU 1169/2011 – Annex II)	Present in finished product	Present in the manufacturing site	Present on the same manufacturing line	Possible cross-contamination
Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains)	NO	NO	NO	NO
Crustaceans and products thereof	NO	NO	NO	NO
Eggs and products thereof	NO	NO	NO	NO
Fish and products thereof	NO	NO	NO	NO
Peanuts and products thereof	NO	NO	NO	NO
Soybeans and products thereof	NO	NO	NO	NO
Milk and products thereof (including lactose)	NO	NO	NO	NO
Nuts (almond, hazelnut, walnut, cashew, pecan nut, Brazil nut, pistachio nut, macadamia nut)	NO	NO	NO	NO
Celery and products thereof	NO	NO	NO	NO
Mustard and products thereof	NO	NO	NO	NO
Sesame seeds and products	NO	NO	NO	NO



SmartHerb
Innovating Botanical Health

Address: Chengnan Road, Huaxi Subdistrict, Changxing County, Huzhou City, Zhejiang Province, 313100, China

thereof				
Sulphur dioxide and sulphites (>10 mg/kg or 10 mg/L expressed as SO ₂)	NO	NO	NO	NO
Lupin and products thereof	NO	NO	NO	NO
Molluscs and products thereof	NO	NO	NO	NO

NON IRRADIATION

According to UE Directive No.1999/2/CE

Has this raw material or one of its ingredients been irradiated or ionised	☐ YES	☒ NO
We confirm above non-irradiation statement is available	☒ YES	

NANOMATERIAL

According to Regulation(EU)No 1169/2011

Does this raw material contain or can be considered asengineered nanomaterial	☐ YES	☒ NO
Does this raw material have been made with nanotechnology?	☐ YES	☒ NO
Does the product contain nanotechnology as defined by the French decree no.2012-232?	☐ YES	☒ NO

RESIDUAL SOLVENTS

According to UE Directive 2009/32 modified by (UE)2010/59 and CPMP/ICH/283/95Q3C

Does the raw material contain any residual solvent	☒ YES	☐ NO
If yes,please give: percentage and name of each solvent used: Water & Ethanol level of residual solvents: Ethanol<5000ppm		
Is the product in compliance with the UE Directive 2009/32	☒ YES	☐ NO
Is the product in compliance with the ICH guidelines	☒ YES	☐ NO

FOOD CERTIFICATE

Manufacturer's quality certificates:				
ISO 9001 ☐	HACCP ☐	ISO 14001 ☐	ISO 22000 ☐	☒ OTHER
Is the raw material Food Grade?			☒ YES	☐ NO
Can the product be used in baby food(Directive 2006/141/CE)?			☐ YES	☒ NO
Does the product comply with the UE Regulation No231/2012 about additives?			☐ YES	☒ NO
Is the product complying with a Pharmacopeia monography?			☐ YES	☒ NO
Is the product complying with the UE Regulation No.1334/2008 about flavourings?			☐ YES	☒ NO
Was the product used in the European food industry before May 1997?			☒ YES	☐ NO
If no,could you provide an authorisation (according to Regulation 258/97/EC)?			☐ YES	☐ NO
Are stability studies available?			☒ YES	☐ NO

CONTAMINANTS

Is the product conforming to UE regulations No 2023/915 setting maximum levels for certain contaminants in foodstuffs, as amended?		☒ YES	☐ NO
Contaminants	Tested?	Result	
Pesticides (multi-residue)?	Yes	Complies with EU 396/2005	
Dioxins and dioxin like PCBs?	NO	Not routinely tested	
Heavy metals	YES	Complies (≤ 10 ppm)	
PAHs(PAH4)	YES	Complies with EU 915/2023	
Benzo[a]pyrens?	YES	Complies with EU 915/2023	
Mycotoxins (Aflatoxins, OTA)	YES	Complies with EU 915/2023	
3-MCPD	NO	Not applicable	
Doping like substances? http://list.wada-ama.org/	NO	Not applicable	

FOREIGN BODIES

Which material do you use in order to fight against the foreign bodies			
	Presence?	Test frequency	Where is it located on the process line?
Magnet	YES	Continuous	Raw material intake / processing line
Metal detector	YES	Each batch	Before packaging
Sieve	YES	Continuous	During processing
Filter	YES	Continuous	Extraction / filtration stage
X-ray detection	NO	N/A	N/A
Other(please specify)			

NUTRITIONAL VALUES

Nutritional Composition	☒ Per 100g	☐ Per serving
Energy(kJ/kcal)	1380 kJ	
Total Fat(g)	0.6 - 1.0g	
Total Carbohydrate(g)	22 - 80g	
Fibre(g)		
Protein(g)	0.5 - 2.5 g	
Salt(g)		
Vitamins:		
Minerals:		
Remarks: Nutrition Data are obtained by 3 rd party lab; tested on a yearly basis		

TRACEABILITY

Batch size	500kg
Batch definition	A batch is defined as a homogeneous production lot produced under the same conditions
Signification of the batch number by an example	



SmartHerb

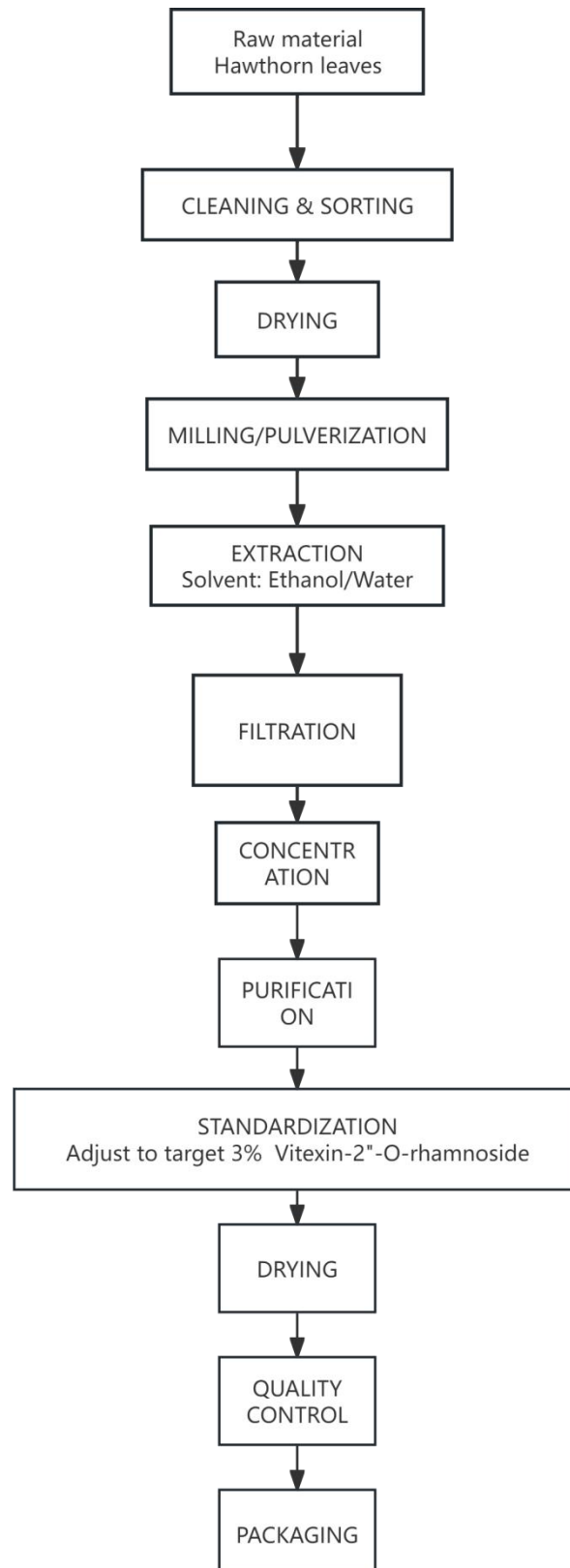
Innovating Botanical Health

Address: Chengnan Road, Huaxi Subdistrict, Changxing
County, Huzhou City, Zhejiang Province, 313100, China

Marking method (labelling...)	
PACKAGING	
Is the packaging material approved as food grade according to regulations 1935/2004,10/2011 and 1282/2011?	☒ YES ☐ NO
Do you guarantee the packaging traceability according to regulation 1935/2004(art 17)?	☒ YES ☐ NO
Can you guarantee that the product and its packaging supplied t(do not contain Phtalates?	☒ YES ☐ NO
Can you guarantee that the product and its packaging supplied to do not contain ITX? (A packaging contaminant:Isopropylthioxanthone(ITX)found in dairy products)	☒ YES ☐ NO
Can you guarantee that the product and its packaging supplied tos do not contain BisphenolA(BPA)?	☒ YES ☐ NO
Do you add desiccant bags during packaging process? If so,where do you mention it:.....	☒ YES ☐ NO
Can you provide migration test in order to guarantee packaging safety?	☒ YES ☐ NO



Flow Chart



MATERIAL SAFETY DATA SHEET

Hawthorn Extract

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product name: Hawthorn Extract

Any restrictions on use: No additional information available.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not classified.

Hazard pictograms or symbols: No data available.

Signal word: No data available.

Hazard statement(s): Small amount: None known. Large mount: Exposure may produce an allergic reaction.

Precautionary statement(s): Avoiding exposure and leakage.

Other hazards not otherwise classified: No data available.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical name	CAS#	Exact percentage	Hazard class and category	Concentration limits
Hawthorn Extract	NA	100%	Not classified.	No data available.

4. FIRST AID MEASURES

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection

After inhaled

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

After swallowed

Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

First aid measures

After skin contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

After eye contact

Hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.

5. FIRE FIGHTING MEASURES

Extinguishing Media:

Alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Unsuitable Extinguishing Media:

No data available.

Fire Fighting Instructions:

As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions and protective equipment and emergency procedure:

Wear a NIOSH/MSHA approved self-contained breathing apparatus and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

Methods and material for containment and cleanup:

Vacuum or sweep up material and place in disposal container.

Avoid raising dust. After removal, ventilate contaminated area and flush thoroughly with water.

Environmental precautions:

Keep away from drains, surface and ground water.

7. HANDLING AND STORAGE

Precautions for safe Handling:

Avoid breathing (dust, vapor, mist, gas).

Avoid contact with eyes, skin, and clothing.

Avoid prolonged or repeated exposure.

Do not reuse this container.

Use with adequate ventilation.

Wash thoroughly after handling.

Condition for safe storage:

Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Specific end use(s):

No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure:

OSHA PEL No data. ACGIH TLV No data. Other exposure limit No data.

Protective Equipment:

Eye wash station in work area

Lab coat

Latex disposable gloves Safety glasses

Safety shower in work area

Vent Hood

Respiratory Equipment (Specify Type):

No data available.

Eye Protection:

Safety glasses

Protective Gloves:

Latex disposable gloves

Other Protective Clothing:

Lab coat

Engineering Controls (Ventilation etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [] Liquid [v] Solid

Melting Point: No data available.

Boiling Point: No data available.

Autoignition Pt: No data available.

Flash Pt: No data available.

Explosive Limits: LEL: No data available. UEL: No data available.

Specific Gravity (Water = 1): No data available.

Vapor Pressure (vs. Air or mm Hg): No data available.

Vapor Density (vs. Air = 1): No data available.

Evaporation Rate (vs Butyl Acetate=1): No data available.

Relative density: No data available.

Solubility in Water: Dissolve in water

Partition coefficient: No data available.

Auto-ignition temperature: No data available.

Viscosity: No data available.

Decomposition temperature: No data available.

pH: No data available.

Appearance and Odor: Reddish Brown Fine Powder Characteristic Odor

10. STABILITY AND REACTIVITY

Reactivity: Stable under the normal condition.

Chemical Stability: Unstable [] Stable [☒]

Possibility of Hazardous Reactions: No data available.

Conditions To Avoid Instability: Protect from moisture

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition product Or Byproducts: No data available.

Hazardous Polymerization: Will occur [] Will not occur [☒]

11. TOXICOLOGICAL INFORMATION

Routes of exposure:

Inhalation? Yes

Skin? Yes

Eyes? Yes

Ingestion? Yes

Other: Injection

Toxicological Information:

The toxicological effects of this compound have not been thoroughly studied.

Carcinogenicity:

NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

Toxicity: No data available.

Persistence and Degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and vPVB assessment: No data available.

Other Adverse Effects: Runoff from fire control or dilution water may cause pollution.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

UN number: No dangerous good in sense of transport regulation.

UN Proper Shipping Name: No data available.

Transport Hazard Class(es): No data available.

Packing Group: No data available.

Environmental hazards: No data available.

Special Precautions for User: No data available.

Transport in Bulk: No data available.

15. REGULATORY INFORMATION

US OSHA: No

EU regulation: No

National regulation: No

Chemical safety assessment: No data available.

16. OTHER INFORMATION

Company Policy or Disclaimer:

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purpose